

С П И С Ъ К
 на цитирания на научните трудове на
чл.-кор. дфн ГЕОРГИ МИХАЙЛОВ МЛАДЕНОВ
 от Институт по електроника при БАН

I. Цитирания на публикации и авторски свидетелства, включени в дисертационните работи

Книгата:

A1. Орлинов В., Г.Младенов - Електронни и йонни методи и устройства за обработка и анализ на веществото. София, Техника, 1982.

е цитирана в:

1. Г.Григоров, Сб.доклади от III конф.ТНТМ в електронизацията и кибернетизацията, София, 1983, 5
2. Ч.Георгиев, Т.Праматаров, Д.Иванов, С.Горанчева, I Международна конференция по Ел.Лъчеви Технол., Варна, 1985,306
3. М.С.Кърджиев, Т.Д.Танев, В.М.Колежко, А.В.Гулай, I Международна конференция по Ел.Лъчеви Технол., Варна, 1985, 205
4. М.И.Кънев, Ц.Узунов и др. Вакуумно металознание, изд. Техника, София,
5. ~~Въз~~бчева, М.Джиджев. Сб.юбил.сесия 25 год. полупроводникова микроелектроника 1986, Ботевград,
6. Ю.Симеонова, Микроканалните пластини и някои възможности за използването им при изследване на Космоса, диссертация за кфн ЦЛКИ, БАН, 1986
7. Ю.Симеонова, Върху структурата на редуцираното оловно стъкло, 9-та нт конф.с межд.уч."Стъкло и керамика", Варна, 1987
8. Д.Йорданов, Ю.Симеонова, А.Шопов. Применение метода электронной Оже спектроскопии для анализа трещин на корпусе авиац.двигателя, 4-та конф.по авиации стран-членов СЭВ, Будапешт, 1989, секция 2
9. И.Велчев, О.Ангелов, Науч.прилож.конф.с междунар.уч-е "Силова електроника-96" 26-27 юни 1996, Изд. Мехатроника ЕАД, 1996, 123-125
10. N. Donkov, W. Knapp, M. Ehrt, Proc. of the 5-th Intern. Conf.on EBT, Varna, 1997, 390.
11. Н. Тошев, А. Кръстева, И. Аврамов, М. Хубеш, П. Петракиев, А. Вуцова. Металургия, 5, 1990, 14-15
12. А.Калчева, Дипл.работа "Електроннольчево нанасяне, обработка и литография на ВТС покрития" ТУ София, Катедра ТППМЕ, 1996
13. И.Петров, Ж.Желев, И.Иванов, В.Желева и др. Авт.свид. 45937/88 от 29.09.89, Метод за нанасяне на многослойни покрития в поточни инсталации.
14. А.Кръстева, Препоръч.литература по курс "Електронни технолог.устройства" код ВЕ54.2d, 7 семестър, ТУ София
15. П.Динев, Препоръч.литература по курс "Плазмени технологии" код ВЕЕ50 С, 8семестър, ТУ София
16. Е. Koleva, Дисертация за присъждане на научно-образов. степен"доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-лъчево заваряване", София, 2006 г.(научна специалност 02.21.06-Автомат.на инженерния труд и системи за автоматизирано проектиране).
17. Dr. Tsanko Ouzounov (IPF - Sliven), Course: Elektrofizichni processes, Semester: 8, Code: BMBET 52, Technical University - Sofia

18. Bohos Aprahamian, Alexander Gaydardziev, Improvement Of The Contact Rivets Durability Of Ships' Electrical Apparatus By Use Of Multilayer Titanium Nitride Coatings, Journal of Marine Technology and Environment, Vol. II, year 2011, pp.17-24 (Constanta Maritime University, 104, Mircea cel Batran Street, 900663, Constanta, Romania)
19. Николай Хинов, Проектиране и конструиране на силови електронни и технологични устройства, код МЕ08d, ТУ София, ФЕТ, катедра Силова електроника, Учебна дисциплина, задължителна за редовни и задачни по специалност Електронника-магистри студенти
20. Г.Николов, Конспект по дисциплина Индустрисална електроника (ТУ Варна) 2013 г.
21. Учебна програма на дисциплината "Електронни технологични системи" (ТУ София)
22. Павел Текнезов, Създаване на Zope/Plone базирана система за online тестове, <http://download.pomagalo.com/1105560/sydzavane+na+zopeplone+bazirana+sistem>
23. Димитър Петров, Иванчо Иванов, Петър Петров, Получаване и изследване свойствата на тънки алуминиеви покрития, Journal of the Technical University–Sofia, Plovdiv, branch, Bulgaria “Fundamental Sciences and Applications” Vol. 19, 2013 International Conference Engineering, Technologies and System TECHSYS 2013, BULGARIA, pp. 105-108
24. В.Славова, Изследване влиянието на вакуумната метализация върху характеристиките на полимерни мембрани, НАУЧНИ ТРУДОВЕ НА РУСЕНСКИЯ УНИВЕРСИТЕТ - 2013, том 52, серия 10.1, стр.193-196
25. П.Динев, Учебна дисциплина“Електротехнология 48-Б, Специалност „Електротехника“, ТУ София
26. Виолета Славова, Стойко Петров, Използване на вакуумно метализирани ултрафилтратинни мембрани за повишаване на специфичната ензимна активност на уреаза, извлечена от соево брашно, НАУЧНИ ТРУДОВЕ НА РУСЕНСКИЯ УНИВЕРСИТЕТ - 2013, том 52, серия 10.1, pp.152-156
27. Цанко Узунов, Характеристика на учебната дисциплина“Материалознание и технология на материалите“ММВЕТ04-ТУ София,Инженерно-педагогически факултет-Сливен
28. Ц. Узунов, Характеристика на учебната дисциплина ВМТМ052 „Електрофизични технологични процеси“, ТУ-София, ИПФ-Сливен
29. Г.Григоров, Система за фокусиране на ел. сноп за литографски цели,Сборник трудове на ИМЕ, 15 години ИМЕ, т VIII, 1982, с.17
30. Ивелина Красимирова Йорданова, дипломна работа, ХТМУ–София, “Центр по Европейско Качество”, 2008
31. Цветелина Павлова Богданова, дипломна работа, ХТМУ–София, “Центр по Европейско Качество”, 2008
32. Нина Симеонова Спасова, дипломна работа, ХТМУ–София, “Центр по Европейско Качество”, 2008
33. Весела Веселинова Георгиева, дипломна работа, ХТМУ–София, “Центр по Европейско Качество”, 2008
34. Боряна Ангелова Планска, дипломна работа, ХТМУ–София, Катедра: Автоматизация на производството, 2008.
35. Илияна Бутанска, дипломна работа, ХТМУ-София, Факултет: ФХСИ, Катедра: Автоматизация на производството, 2008.

36. Мария Иванова Маджарова, дипломна работа, ХТМУ-София, Факултет: ФХСИ, Катедра: Автоматизация на производството, юли 2008.
37. Десислава Асенова Владимирова, дипломна работа, ХТМУ-София, "Центр по Европейско Качество", март 2009
38. Петър Илиев Ефтилов - ХТМУ-София, "Центр по Европейско Качество", март 2009
39. Силвия Кирилова Стоицова, дипломна работа, ХТМУ-София, "Центр по Европейско Качество", март 2009
40. Кремена Петрова Дянкова, дипломна работа, ХТМУ-София, "Центр по Европейско Качество", април 2009
41. Калина Костадинова Гъркова, дипломна работа, ХТМУ-София, "Центр по Европейско Качество", април 2009
42. Илона Красимирова Павлова, дипломна работа, ХТМУ-София, Факултет: ФХСИ, Катедра: Автоматизация на производството, юли 2009.
43. Георги Николаев Георгиев, дипломна работа, ХТМУ-София, Факултет: ФХСИ, Катедра: Автоматизация на производството, юли 2009.
44. Веселина Станкова Станкова, дипломна работа, ХТМУ-София, Факултет: ФХСИ, Катедра: Автоматизация на производството, септември 2009.
45. Десислава Валериева Димитрова, дипломна работа, ХТМУ-София, Факултет: ФХСИ, Катедра: Автоматизация на производството, септември 2009.
46. Бранимир Вангелов Найденов, дипломна работа, ХТМУ-София, Факултет: ФХСИ, Катедра: Автоматизация на производството, септември 2009.

Работата:

A2. Младенов Г. Исследование взаимодействия мощных технологических электронных пучков с веществом, Автореферат диссертация на соискание уч. степени к.т.н., Ленинградский ордена Ленина электротехнический институт им. В.И.Ульянова (Ленина), Ленинград, 1972.

е цитирана в:

47. П.Петров, Автореферат на канд. дисерт. (кфн), ИЕ БАН, 1986

Работата:

A3. Орлинов В., Т.Дончев, Г.Младенов. Скорость катодного распыления в тлеющем разряде. Зависимость катодного распыления от тока для системы никель-неон, Prace Przemysl. Inst. Elektroniki, v 31, N 1, 1969, 3.

е цитирана в:

48. J.Kurtev. "Uber das aufstaubungsverhalten dunnen Schichten ans Edelstahl X18H10T in monolagenbereich" Zentralinstitut fur Elektronenphysik, (N 63, 64, 65), Berlin, DDR, 1981
49. J.Kurtev, Disertation zur Erlangung des akademischen Grades rerum naturalium, vorgelegt dem Zentralinstitut fur Elektronenphysik der Academie der Wissenschaften der DDR
50. J.Kourtev , B.Goranchev, Influence of the abnormal ratio of the dependence of cathode sputtering rate on the current in a glow discharge, Int.J.Electronics, 1974, v36, No 4, pp.431-439
51. V. Motoyama, M. Ushirozawa, T. Sakai, Improvement in lifetime of color DC PDP, IEEE Trans. on El. Devices, v29, No 6, p. 988 , 1992, (ieee explore.iee.org)

Работата:

A4. Orlinov V., G.Mladenov. Dependence of Cathode Sputtering Rate on Current in Glow Discharge, Intern. Journ. Electronics, v 27, N 1, 1969, 65.

е цитирана в:

52. W.D. Westwood, R. Boynton, Cathode dark-space measurements and deposition rates of Ta in a sputtering system, *Journ. Appl. Phys.*, V 43, 1972, 2691.
53. M.E. Pillow, A Critical Review of Spectral and Related Phys. Properties of the Hollow Cathode Discharge. *Spectrochim. Acta B* v36, N8, 1981, 821-841
54. V. Motoyama, M. Ushirozawa, T. Sakai, Improvement in lifetime of color DC PDP, *IEEE Trans. on El. Devices*, 42(5), 1995, 1007-1008, ISSN: 0018-9383
55. V. Motoyama, M. Ushirozawa, T. Sakai, Improvement in lifetime of color DC PDP, *IEEE Trans. on El. Devices*, v29, No 6, p.988 , 1992, ([ieee explore.ieee.org](http://ieeexplore.ieee.org))
56. J. Kourtev, B. Goranchev, Influence of the abnormal ratio of the dependence of cathode sputtering rate on the current in a glow discharge, *Int. J. Electronics*, 1974, v36, No 4, pp.431-439
57. Westwood, W. D. "Glow discharge sputtering." *Progress in Surface Science* 7.2 (1976): 71-111.
58. Mason, Rod S., et al. "Cathodic bombardment and sputtering in the 0.5–4.0 torr pressure region of a glow-discharge ion source." *Rapid Communications in Mass Spectrometry* 8.2 (1994): 187-194.
59. 一番ヶ瀬剛, and 畑朋延. "情報表示用 DC 型カラープラズマディスプレイの寿命特性の改善." 電子情報通信学会論文誌 C 83.4 (2000): 344-352.
60. 一番ヶ瀬剛, and 畑朋延. "PDP 用カソード (La 0.5 Sr 0.5 CoO 3) の放電集中の低減と寿命特性の改善." 電子情報通信学会論文誌 C 83.4 (2000): 334-343.
61. Zhechev, D. "8.1 SPECTROSCOPIC PECULIARITIES OF THE CONICAL BOTTOM HOLLOW-CATHODE DISCHARGE (CBHCD) 8.1. 1 Introduction The broad energy spectrum of the hollow-cathode discharge, historically the first of its peculiarities to be noticed [1], encouraged the subsequent thorough." *Improved hollow cathode lamps for atomic spectroscopy* (1985): 203.
62. KAMIO, Yoshiaki, and Kazuo WATANABE. "Effect of Ne-Ar Mixtures in Gas Tube Protector." *IEICE TRANSACTIONS* (1976-1990) 64.3 (1981): 168-174.
63. Mason, Rod S., et al. "Cathodic bombardment and sputtering in the 0.5–4.0 torr pressure region of a glow-discharge ion source." *Rapid Communications in Mass Spectrometry* 8.2 (1994): 187-194.
64. Ahmed, K.U., Certain theorems on exact non-uniform transmission lines,_1974, International Journal of Electronics, 36(4), c. 441-445
65. Motoyama, Y., Ushirozawa, M., Sakai, T., Maezawa, T. Akeyoshi, and T. Mizutani, Improvement in Lifetime of Color DC PDP K,, *IEEE Transactions on Electron Devices* 1995, 42(5), c. 1007-1008

Работата:

A5. Orlinov V., G.Mladenov. Dependence of Cathode Sputtering Rate on the Pressure in Glow Discharge, Intern. Journ. Electronics, v 27, N 3, 1969, 241.

е цитирана в:

66. J.Kurtev. "Uber das aufstaubungsverhalten dunnen Schichten ans Edelstahl

- X18H10T in monolagenbereich" Zentralinstitut fur Elektronenphysik, (N 63, 64, 65), Berlin,DDR, 1981
67. R.S.Masson, M.Pichilingi, Sputtering in a glow discharge ion source-pressure deppendent-theory and experiments, Journ. of Physics, D, Appl.Physics, 27, (11), 1994, 2363-2371
 68. R.S.Mason, D.M.P.Milton, M.Pichilingi, et al., Cathodic bombardment and sputtering in the 0.5-4 Torr pressure region of a glow discharge ion source, Rapid commun.in mass spectrometry, 8(2) 1994, 187-194
 69. J.Kurtev, Disertation zur Erlangung des akademischen Grades rerum naturalium, vorgelegt dem Zentralinstitut fur Elektronenphysik der Academie der Wissenschaften der DDR

Работата:

- A6. Orlinov V., G.Mladenov, B.Goranchev. Influence of the heat transfer from the cathode on the dependence of cathode sputtering rate on current and pressure in a glow discharge, Intern. Journ. Electronics, v 30, N 3, 1971, 233.**

е цитирана в:

70. Экспресс-информация "Электроника" №25, 1971, 1
71. W.D. Westwood, R. Boynton, Cathode dark-space measurements and deposition rates of Ta in a sputtering system, Journ. Appl.Phys., V 43, 1972, 2691.
72. W.D. Westwood, Progr. Surf. Sci., V 7, 1976, p 71
73. J.Kurtev. "Uber das aufstaubungsverhalten dunnen Schichten ans Edelstahl X18H10T in monolagenbereich" Zentralinstitut fur Elektronenphysik, (N 63, 64, 65), Berlin, DDR, 1981
74. J.R. Hollaban, A.T. Bell. Techniques and Applications of Plasma Chemistry 1974. J. Willey & sons, N.Y., Lond., Sydney, Toronto, N 43, 144
75. J.Kurtev, Disertation zur Erlangung des akademischen Grades rerum naturalium, vorgelegt dem Zentralinstitut fur Elektronenphysik der Academie der Wissenschaften der DDR
76. J. Kourtev, Influence of the abnormal ratio of the dependence of cathode sputtering rate on the current in a glow discharge, Int. J. Electronics, 1974, v36, No 4, pp.431-439
77. Pillow, M. E. (1981). A critical review of spectral and related physical properties of the hollow cathode discharge. *Spectrochimica Acta Part B: Atomic Spectroscopy*, 36(8), 821-843.
78. Hudis, Martin. "Plasma treatment of solid materials." *Techniques and applications of plasma chemistry*. New York: John Wiley and Sons 113 (1974): 147.
79. Iida, Yasuo. "Laser vaporization of solid samples into a hollow-cathode discharge for atomic emission spectrometry." *Spectrochimica Acta Part B: Atomic Spectroscopy* 45.4 (1990): 427-438.
80. Ahmed, K.U., Certain theorems on exact non-uniform transmission lines, 1974, International Journal of Electronics, 36(4), c. 441-445

Работата:

- A7. Ledovskoy V., G.Mladenov, A.Potsar. Influence of Ionizing Phenomena on Electron-Beam Penetration in Metal, IEE Conference Publication, N 70, 1970, 510.**

е цитирана в:

81. K. Friedel, Prace Naukome Inst. Technol. Elektronowej Politechn.Wroclawskiej, 27, 8, 1983.
82. M. Bielawski, Praca doktorska, Inst. Technol. Elektronowej, Pol. Wroc., Wroclaw, 1983.
83. S. Smardz, Praca doktorska, Inst. Technol.Elektronowej Pol.Wroc., Wroclaw, 1981.
84. M. Bielawski, J. Felba, A. Halas, Vplyw cisnienia w obszarze przelotowym niskon spieciowej spawarki elektronowej ne ksztali wiazki elektronow, Postepy Technologii Moszyn i Orzadzen, 1985
85. ELECTRON BEAM CHARACTERIZATION BY A TOMOGRAPHIC APPROACH, *Koleva E., Todorov D., Kardjiev M., Koleva L.*, Journal of Physics: Conference Series. 2016. Т. 700. № 1. С. 012013.

Работата:

A8. Ледовской В., Г.Младенов. Учет влияния плазменых явлений на взаимодействие мощных электронных пучков с веществом, *ЖТФ*, т 40, N 10, 1970, 2260-2262.

е цитирана в:

86. М. Габович, В. Коваленко, О. Металлов, О. Назаренко, ЖТФ, 7, 1974, 1556
87. А.В.Башкатов, Ф.Н.Рыжков, А.Е.Кондратков и др. Сварочное производство, 7, 1977, 27.
88. А.В.Башкатов, Ф.Н.Рыжков и др. В сб. V Всесоюзная конференция по электроннолучевой сварке, Киев, Изд.Наукова думка, 1977,77.
89. А.А.Новиков, Физика и химия обработки материалов, 1, 1977, 143
90. И.В.Зуев, А.А.Углов, Физика и химия обработки материалов, 2, 1977, 147
91. Н.Н.Рыкалин, И.В.Зуев, А.А.Углов, Основы электроннолучевой обработки материалов, Машиностроение, М.,1978
92. Ю.Н.Ланкин, Автоматическая сварка,9,1978,11
93. И.И.Дворкин, В сб. V Всесоюзная конференция по электроннолучевой сварке, Киев, Изд. Наукова думка, 1977, 30.
94. О.К.Назаренко, С.К.Пацьора, Автоматическая сварка,5,(362),1983,58
95. И.И.Дворкин и др. ЖТФ,т.47,1977,460
96. О.К.Назаренко, Докторска дисертация "Электроннолучевая сварка-технология и оборудование",ИЕС "Е. О. Патон", Киев, 1975
97. А.С.Шипалов, Кандид.диссертация, МЕИ,Москва,1972
98. S.Smardz, Praca doktorska, Inst. Technol.Elektronowej Pol. Wroc., Wroclaw, 1981.
99. С.К.Пацьора, Автореф.дисс.на соиск.к.ф.-м.н., Киев,1973
100. M.Bielawski, Praca doktorska, Inst. Technol. Elektronowej, Pol.Wroc., Wroclaw, 1983.
101. M.Bielawski, J.Felba, A.Halas, Vplyw cisnienia w obszarze przelotowym niskon spieciowej spawarki elektronowej ne ksztali wiazki elektronow, Postepy Technologii Moszyn i Orzadzen, 1985
102. Б.Е.Патон, О.К.Назаренко и др. Электроннолучевая сварка, Киев, Изд.Наукова думка,1987
103. P.Petrov, Tch.Georgiev, Proc. of the 5- th Intern.Conf.on EBT, Varna, 1997,160
104. P.Petrov, C.Georgiev, G.Petrov, Experimental investigation of weld pool formation in EB welding. Vacuum, Nov.1998
105. L.Monshick, Estimate of error bounds of gas transport properties. J.Chem Phys,

- 53(11)4367-4371, 1Dec.1970; Vacuum July 1971.
106. П.Петров, Физически процеси и материали при обработка с концентрирани енергетични потоци, Автореферат на дисерт. за получаване на научната степен дфн, София ИЕ БАН,2009
107. Терентиев Егор Валериевич, 2011, В дисертацията «Повишение качества формирования сварных соединений при электронно-лучевой сварке неповоротных стыков со сквозным проплавлением» Специальность 05.02.10 – Сварка, родственные процессы и технологии, диссертация на соискание ученой степени кандидата технических наук, Научный руководитель проф.Драгунов В.К. Научно Исследовательский Университет МЭИ, Москва
108. Simon Kassel, EFFECTS OF STRONG EXPLOSIONS – II, A Report prepared for ADVANCED RESEARCH PROJECTS AGENCY, R-760/1-ARPA, September 1971
Rand, SANTA MONICA, CA 90406 file:///C:/Users/germanospc/Downloads/AD0734202.pdf
109. Advanced research project agency, R 760 1 ARPA, September 1971, Rand, Santa Monica CA 90406 file:///C:/Users/germanospc/Downloads/AD0734202.pdf
110. ELECTRON BEAM CHARACTERIZATION BY A TOMOGRAPHIC APPROACH
Koleva E., Todorov D., Kardjiev M., Koleva L., Journal of Physics: Conference Series. 2016. Т. 700. № 1. C. 012013.

Работата:

A9. Ледовской В., Г. Младенов, А. Потсар. Влияния ионизационных процессов на взаимодействие мощных электронных пучков с материалами, *Известия ЛЭТИ*, в. 94, 1970,

е цитирана в:

111. С.К.Пацьора, Автореф.дисс.на соиск.к.ф.-м.н., Киев,1973
112. В.Я.Беленкий, В.М.Язовских, Электронная обработка материалов, 1, 1998, 4-6

Работата:

A11. Дворкин И., В.Ледовской, Г.Младенов. Электроннолучевая сварка тонкостенных деталей в непрерывном режиме, *Электронная техника*, сер. 4, N 3, 1972, 53.

е цитирана в:

113. О.К.Назаренко, Докторска дисертация "Электроннолучевая сварка-технология и оборудование",ИЕС "Е.О.Патон", Киев, 1975
114. E.Koleva, Дисертация за присъждане на научно-образов.степен"доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-льчево заваряване",София,2006 г.(научна специалност 02.21.06-Автомат.на инженерния труд и системи за автоматизирано проектиране).

Работата:

A12. Дворкин И., Ю.Кошкин, В.Ледовской, Г.Младенов. Особености электроннолучевой сварки генераторных и модуляторных ламп, *Автоматическая сварка*, N 11, 1972, 36. Autom.Weld. (G.B.),v 25, N 11, 1972, 34.

е цитирана в:

115. M.Bielawski, J.Felba, A.Halas, Vplyw cisnienia w obszarze przelotowym niskon

- spieciowej spawarki elektronowej ne ksztali wiazki elektronow, Postepy Technologii Moszyn i Orzadzen, 1985
 116. Autom. Welding (G.B.), V 25, N 11, Nov. 1972, pp 34 – 35

Работата:

A13. Ледовской В., Г.Младенов. Упругие и неупругие столкновения в паровой фазе при взаимодействии мощных электронных пучков с веществом, *Известия ЛЭТИ*, в. 126, 1972, 93.

е цитирана в:

117. М.Габович, В.Коваленко, О.Металлов, О.Назаренко, ЖТФ, 7, 1974, 1556
 118. М.С.Кърджиев, Т.Д.Танев, В.М.Колежко, А.В.Гулай, I Международна конференция по Ел.Лъчеви Технол., Варна, 1985, 205
 119. Т.Н.Якимов, Авторефл на дисерт. за степента к.т.н., Ленинград, ЛЭТИ, 1973

Работата:

A14. Ледовской В., Г.Младенов. О параметрах плазмы, генерируемой электронным лучом в технологической камере, *Известия ЛЭТИ*, в. 126, 1972, 96.

е цитирана в:

120. И.И.Дворкин, В сб. V Всесоюзная конференция по электроннолучевой сварке, Киев, Изд.Наукова думка, 1977, 30
 121. NUMERICAL MODEL OF THE PLASMA FORMATION AT ELECTRON BEAM WELDING, Trushnikov D.N., Journal of Applied Physics. 2015. T. 117. № 1. C. 013301.

Работата:

A17. Mladenov G. Gas Focussing of Electron Beam in Electron Beam Welding and Melting, Intern. Conf. on Electrode Phenomena in Gas Discgarge, Bucharest, Romania, May 30 - June 1, 1974.

е цитирана в:

122. S. Smardz, Praca doktorska, Inst. Technol. Elektronowej Pol. Wroclaw, 1981.
 123. M.Bielawski, Praca doktorska, Inst. Technol. Elektronowej, Pol.Wroc., Wroclaw, 1983.
 124. M.Bielawski, J.Felba, A.Halas, Vplyw cisnienia w obszarze przelotowym niskon spieciowej spawarki elektronowej ne ksztali wiazki elektronow, Postepy Technologii Moszyn i Orzadzen, 1985

Работата:

A18 Младенов Г., В.Ледовской, В.Кривков. О тепловой модели процесса обработки вещества внедренным электронным пучком, *Физика и химия обработки материалов*, N 4, 1974, 134.

е цитирана в:

125. И.И.Дворкин, В сб. V Всесоюзная конференция по электроннолучевой сварке, Киев, Изд.Наукова думка, 1977, 30
 126. P.Petrov, Tch.Georgiev, Proc. of the 5- th Intern. Conf.on EBT, Varna, 1997, 160

127. E.Koleva, Дисертация за присъждане на научно-образов.степен"доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-лъчево заваряване", София,2006г.(научна специалност 02.21.06-Автомат.на инженерния труд и системи за автоматизирано проектиране).

Работата:

A19. Младенов Г. Върху топлинния модел на електроннолъчево заваряване. I. Пресмятане на режима в случай на заваряване на тънкостени детайли, Заваряване, N 4, 1977, 6.

е цитирана в:

128. J.Felba, Praca doktorska, Inst., Technol., Elektronowej Pol. Wroc., Wroclaw, 1979.
129. J. Felba, Raport N 176, ITE Pol.Wroc., Wroclaw,1978.
130. M.Bielawski, J. Felba, A.Halas, Vplyw cisnienia w obszarze przelotowym niskon spiecowej spawarki elektronowej ne ksztali wiazki elektronow, Postepy Technologii Moszyn i Orzadzen, 1985
131. П. Петров, Автореферат на канд. дисерт. (кфн), ИЕ БАН,1986
132. Research status and development of causing mechanism of deep penetration-Review of EBwelding, Welding and Joining, 2003, 8, p.5-7, 16.
133. 吴会强, 冯吉才, & 何景山. (2003). 电子束焊接深熔产生机理的研究现状与发展. 焊接, (8), 5-7.
134. 卢庆华, 张玉凤, 霍立兴, & 张莉. (2003). 抗震梁柱节点失效行为评估方法. 焊接, (8), 12-16.

Работата:

A20. Младенов Г. Върху топлинния модел на електроннолъчево заваряване. II. Характер на източника на топлина, действуващ при обработка с внедрен електронен сноп, Заваряване, N 1, 1978, 5.

е цитирана в:

135. J.Felba, Praca doktorska, Inst., Technol.,Elektronowej Pol.Wroc., Wroclaw, 1979.
136. J.Felba, Raport N 176, ITE Pol. Wroclaw, 1978.

Работата

A23.Mladenov G. Ein Physikalisches - und Warmemodell des Elektronenschweissens, ZIS - Mitteilungen, Halle, DDR, N 1, 1978.

е цитирана в:

137. S. Böhm The electron beam as a tool for joining technology, Study on the occasion of the DVS research seminar in Halle (Saale) on February 20, 2014, DVS Report Volume 299e
138. Prof. Dr.-Ing. S. Böhm ,DVS-Forschungsseminar 2014 „Der Elektronenstrahl als Werkzeug für die Fügetechnik: Hochleistungsfügeverfahren mit Präzision und Effizienz für innovative, file:///C:/Users/germanos-pc/Downloads/DVS-Berichte.pdf Anwendungen“

Работата:

A25. Mladenov G., M.Braun. Ion Bombardment Induced Line Radiation from Sputtered Be, Phys. Stat. Solidi a, v 63, 1979, 631.

е цитирана в:

139. E.Taglaner, W.Heiland (Editors), Inelastic Particle Surf.Collisions, Springer series in Chem.Physic 17 (R.J.Mac-Donald et al., Outer shell Excitation during sputtering and Low Energy Ion Scattering)
140. R.Kelly, Nucl. Inst. Meth., 194, 1982, 583
141. O.Aucelle, Determination of excit.sputtering atoms kinet.energy as a contribution to the understanding of excitation phenomena in the sputtering process, Nucl. Instr. & Meth., 194, 1982, 549-553
142. R.B.Wright, D.M.Gruen, Incident ion energy dependence of the secondary photon emission of ion bombarded beryllium, Journal of Chemical Physics. 1980. T. 73. № 2, p. 664-672.
143. C.M.Loxton, R.M.Macdonald, The measurement of energy parameters for atoms sputtered in excited statesSurf. Sci., 110(2), 339- 345, 1981
144. C.M.Loxton, R.J.Macdonald, E.Taglauer, A comparison of measurements of the energy of atoms sputtered in excited states, Surf. Sci. 102, 1981, 1 76
145. R.Kelly, Statistical models for the formation of excit.atoms in the sputtering process, Phys. Rev., B, V 25, 2, 1982
146. E.Thomas, Formation of excited states by ion impact on surfaces, Progress in Surf. Sci., V10, 4, 1980,383
147. B.Emmoth, Ionic Impacts on Solids and Sputtering Phenomena, Res. Inst. of Physics, Stockholm, Sweden, 1977
148. E. W.Thomas, Ion Bomb.indused photon angle emission for surf.analysis, Vacuum, v. 34(12), 1984, 1031-1044
149. R.F.Garrett, MacDonald, R. J., & O'Connor, D. J. Comments on the physical significance of E-shell values for excited sputtered atoms. Surf. Sci., L 131, 1983, L399-L405
150. F.K.Naehring, 3 Taqunq "Festkopreranalytik"23 - 26.06.1981, Karl - Marx - Stadt, DDR, Tagungabsrichte (1982) Band 2, 69
151. Y.I.Kovtunenko, A.G.Koval, A.Y.Sobolev et al., On the determination of the type of energy distribution for ejected excited particles, Opt.spectrosc. 66(3), 1989, 591-
152. 39A.Pazdersky, B.A.Tsipinyuk, The mechanism of excit. ion emission, Vacuum 35(7) 1985, 255-263
153. R.J.MacDonald, C.M.Loxton, Outer Shell Exitation During Sputtering and Low Energy Ion Scattering, Inelastic Particle, Surface, Springer Verlag, 1981
154. I. Martinson, Optical Radiation Emitted at Heavy-ion Bombardment of Solids,Physica Scripta, V 10, N 3
155. A. Nilsson, ANNUAL REPORT 1977, RESEARCH INSTITUTE OF PHYSICS, S-104 05 Stockholm, Sweden, pp.50-56.
156. O Auciello - 1982 - inis.iaea.org, Determination of excited sputtered atoms kinetic energy as a contribution to the understanding of the excitation phenomenon in the sputtering process

Работата:

A26 Mladenov G., B.Emmoth. Low Temperature Migration of Si into Au/Pt Thin Films on Si Substrates with Interposed Cr Layers investigated by two Methods of Depth Analysis, Appl. Phys.Lett., v 33, 1978, 754.

е цитирана в:

157. Saraf L., Wang C., Engelhard M.H., Baer D.R. TEMPERATURE-INDUCED PHASE SEPARATION IN CHROMIUM FILMS, Applied Physics Letters. 2003. v.

82. № 14. C. 2230-2232.
158. T. Nenadovic, PODACI O ISTRAŽIVAČIMA POTREBNI ZA BAZU PODATAKA, https://www.vin.bg.ac.rs/040/members/mem_tne_cv.htm
 159. A. Nilsson, ANNUAL REPORT 1977, RESEARCH INSTITUTE OF PHYSICS, S-104 05 Stockholm Sweden, pp.39-44

Работата:

A29. Spangenberg B., G.Mladenov, V.Orlinov. Berechnung des Schithwidertangen fur die Bor-Implantation in Sillizium, *Thin Solid Films*, v 71, 1980, 1.

е цитирана в:

160. S Hoen, M Unkrich, W Trutna, J Larson... - US Patent App. 11, 2005, Film-bulk acoustic wave resonator with motion plate.
161. RC Ruby, W Pang - US Patent App. 11/540,413, 2006 - Google Patents, HBAR oscillator and method of manufacture.
162. RS Fazzio, H Feng - US Patent 20,060,132,262, 2006 - freepatentsonline.com, Acoustic resonator performance enhancement using selective metal etch.
163. T Jamneala, J Larson, R Ruby - US Patent App. 11/343,117, 2006 - Google Patents, Impedance transforming bulk acoustic wave baluns.
164. **RC Ruby, RS Fazzio, H Feng... - US Patent App. 12/ ..., 2008 - Google Patents** **Acoustic resonator performance enhancement using alternating frame structure**
165. TE Dungan, RS Fazzio - US Patent 7,202,560, 2007 - freepatentsonline.com, Wafer bonding of micro-electro mechanical systems to active circuitry.
166. L John, Q Bai, F Matta, T Verhoeven - US Patent App. 10/890,343, 2004 - Google Patents, Film bulk acoustic resonator package and method of fabricating same.
167. ML Frank, RC Ruby... - US Patent 20,090,273,415, 2009 - freepatentsonline.com, BULK ACOUSTIC RESONATOR ELECTRICAL IMPEDANCE TRANSFORMERS.
168. JD Larson III - US Patent 20,090,073,730, 2009 - freepatentsonline.com. AC-DC Power Converter, United States Patent Application 20090073730
169. R Fazzio, R Ruby, C Wade, M Frank... - US Patent App. 11/ ..., 2006 - Google Patents. Electronic dev ice on substrate with cavity and mitigated parasitic leakage path
170. JD Larson III, I Hardcastle - US Patent 20,070,086,080, 2007 - freepatentsonline.com. Acoustic galvanic isolator incorporating series-connected decoupled stacked bulk acoustic resonators
171. JD Larson III - US Patent 20,070,090,892, 2007 - freepatentsonline.com. Acoustic galvanic isolator incorporating single decoupled stacked bulk acoustic resonator.
172. M Unkrich - US Patent 7,746,677, 2010 - freepatentsonline.com. AC-DC converter circuit and power supply.
173. S Martin, O Buccafusca - US Patent App. 12/112,669, 2008 - Google Patents. Transceiver circuit for film bulk acoustic resonator (fbar) transducers.
174. H. Feng, RS Fazzio - US Patent App. 12/838,657, 2010 - Google Patents. Acoustic resonator performance enhancement using selective metal etch.
175. M Fritz, M Handtmann, JF Liang... - US Patent App. 12/ ..., 2009 - Google Patents. Duplexer with negative phase shifting circuit.
176. T Jamneala - US Patent 20,090,086,654, 2009 - freepatentsonline.com. Single stack coupled resonators having differential output.

177. RS Fazzio, RC Ruby, CP Wade, ML Frank... - US Patent App. 12/ ..., 2008 - Google Patents. Electronic device on substrate with cavity and mitigated parasitic leakage path.
178. RC Ruby - US Patent 20,130,049,888, 2013 - freepatentsonline.com; Acoustic resonator formed on a pedestal.
179. J Choy, C Feng, P Nikkel - US Patent 20,100,327,994, 2010 - freepatentsonline.com. Acoustic resonator structure having an electrode with a cantilevered portion.
180. AA SHIRAKAWA, P Bradley, D Burak... - US Patent App. 13/ ..., 2011 - Google Patents. Stacked bulk acoustic resonator and method of fabricating the same.
181. A Shirakawa, D Burak, P Nikkel - US Patent 20,120,319,534, 2012 - freepatentsonline.com. Bulk acoustic resonator comprising non-piezoelectric layer and bridge.
182. TJ Whetten, WP Richling - US Patent 20,120,193,795, 2012 - freepatentsonline.com. Semiconductor device having an airbridge and method of fabricating the same.
183. T Jamneala, RC Ruby - US Patent 20,070,205,850, 2007 - freepatentsonline.com. Piezoelectric resonator structures and electrical filters having frame elements.
184. RC Ruby, JD Larson... - US Patent 20,090,146,531, 2009 - freepatentsonline.com. Manufacturing Process For Thin Film Bulk Acoustic Resonator (FBAR) Filters
185. D Burak, KJ Grannen, JD Larson III... - US Patent App. 13/ ..., 2011 - Google Patents. Bulk acoustic resonator comprising piezoelectric layer and inverse piezoelectric layer
186. Babaei, F., Savaloni, H., Optical Absorption Transitions in Mn Star-like Helical Sculptured Thin Films, 2018, Plasmonics, 13(1), c. 203-214

Работата:

A31 Mladenov G., B.Emmoth. Polymethyl Methacrylate Sensitivity Variation versus the Electronics Stopping Power at Ion Lithography Exposure, *Appl. Phys. Lett.*, v 38, 1981, 1000.

е цитирана в:

187. J.E.Jensen, Ion Beam Resists, Sol. State Techn., V 27, 1984, 145
188. E.Kamaratos, Developments regarding the Bragg rule for stopping power and critical examination of its application to water , Nucl. Instrum.& Methods, 215, 1-2, 1983, 337-344
189. E.Kamaratos, The mean exitat. Energy for stopping power, Chem. Rev., V 84, 1984, 561-573
190. L.Karapiperis, D.Dubrenil, P.David, Ion beam lithography- an investigation on resists limits and sensitivity of ion beam exposed PMMA, J. Vac. Sci., B, V 3, 1985, 353-357
191. W.Brown, Int. Conf. Radiation effects in insulators-3, University of Surrey, England, 1985, 32
192. W.L.Brown. Ion Beam Bombardment Effects in Polymers.Rad. Eff., V. 98, 1-4, 1986, 115-137
193. W.L.Brown. Radiation Effects in insulators-3 .Vol 1. Proc.of the 3-nd Int.Conf. Univ. of Surrey Cuilford 15-19 July 1985, Gordon and Breach Sc. Publ. pp 281-303
194. T.Iton. Ion beam assisted film growth, Elsevier Publ. 1989, ref 45
195. J.P.Biersack, R.Kallweit, Nucl.Instrum. & Methods 46, 1990, 309-312
196. U.W.Gedde, K.Pellfolk, C.Rodehed, J.Appl. Polym.Sci., 39,1990, 477-482

197. R.A.D.Mackenzie and G.D.W.Smith. University of Oxford, Dep.of Materials, Focused ion beam technology: a bibliography, Nanotechnology 1, 1990, 163-201
198. L.Calcagno, G.Compagnini, G.Foti, Structural modification of polymer films by ion irradiation, Nucl. Instr. Methods B, 65(1-4), 1991. p.413.
199. M.A.Hartney, D.Shaver, M.Shepard, J.Melngailis, V.Medvedev, W.Robson, J. Vac. Sci. B, 9, 3432, 1991
200. W.Schnabel, Q.Zhu,S.Klaumunzer,ACS. Symp. Series, 1991, 475, 46, ref.91
201. D.Dubrenil, Ph.David and D.Dienmegard.J.Vac.Sci and Technol. B, 3(1), Jan/Febr.1985,p.354.
202. W.Schnabel, S.Klaumunzer, The effects of ion beam irradiation effects in polymers.Radiation Physics and Chem.1991, 131-134
203. W.Schnabel, Linear energy transfer in irradiat. polymers Int. J.Rad.Appl.Instrum., part C, 37, 1001,131
204. W.Schnabel, S.Klaumunzer, Linear energy transfer effects in polymers, Polymer preprints, 1990, ASC Publications
205. W.Schnabel, Q.Q.Zhy, and S.Klaumunzer, Radiation effwcts in Polymers, Chapter 3, pp.44-52, ASC Symp.series, v.475, 1991, Amer. Chem. Soc. DOI 10.1021./bk-1991-0475.ch003
206. J.Melngailis, Application of ion microbeam lithography and direct processing, Handbook of VLSI Lithography, 2001.
207. H.Loeschner, R.Kaesmaier, P.W.de Jager. IPL: Ion Projection Lithography-Wite paper, International SEMATECH, Nov.1999
208. H.Loeschner, R.Kaesmaier, P.W.de Jager., Ion Projection lithography, Next Generation Lithography Workshop, Colorado Springs, USA, Dec.7-9,1999
209. E.H.Lee, G.R.Rao, L.K.Mansur, Linear energy effects on cross-linking and scission mechanisms Radiat. Phys.Chem. 55(3) 1999, 293-305
210. E.H.Lee, Ion Beam Modification of Polymers, Nucl.Instrum.and Methods B 151(1-4) 1999, 29-41
211. E.H.Lee, G.R.Rao, L.K.Mansur, Linear energy effects on cross-linking and scission mechanisms of PMMA during irradiation. Nuclear Instr.& Methods B, 151, 1-4, 41, May 1993, 403-415
212. J.Melngailis, A.Mondelli, I.L.Berry, A, Review of Ion Proj. Lithography, J.Vac.Sci.Technol.B, 16(3) 1998, 927-957
213. I.L.Berry, Economic and technical analysis of projection ion lithography, J.Vac.Sci.Technol.B, 16(4)1998, 2444-2448
214. R Kasmaier, Ph.D. dissertation, Ionen-Projecttions-Lithographie fur die Industrielle Herstellung von Schaltungen mit Strukturgrossen kleiner 100 nm, University of Kassel, Germany, May 2000.
215. M.S.Akhtar, D.J.Choi, S.K.Lee, O.B.Yang, Effect of electron beam irradiation on the electrochemical properties of heteropolyacid-polyethilene oxide composite electrolyte for dye-sentisized solar cell, Current applied physics, 10: S161-S164, Sp.Iss.SI Suppl.2 march 2010 (Intern.Renewable Energy Conference, oct.13-17,2008, Busan, South Corea)
216. D.Saikia, A.Kumar, F.Singh, D.K. Avasthi, Study of Li³ ion irradiation effects in P(VDF-HFP) based gel polymer electrolytes for application of Li-ion battery, Journ. Of Physics D- Applied Physics, 39(19)2006, pp.4208-4214
217. D.Saikia, A.Kumar, F.Singh, D.K. Avasthi, N.C.Mishra, Ionic conduction in 70-MeV C⁵⁺- ion-irradiated poly (vinylidenefluoride-co-hexafluoropropylene) based gel polymer electrode, Journ.Appl.Physics, 98(4): Art.043514, Aug.15, 2005, DOI

- 10.1063/1.2030417
218. Akhtar, M.S., Kim, U.-Y., Choi, D.-J., Yang, O.-B., Effect of EB radiation on the properties of polyethylene oxide TiO₂composite electrolyte for DSSC,Material Science Forum, 2010, v.658, p.161-164.
 219. D.Sakia, A.M.P.Hussain, A.Kumar, F.Singh, N.C..Mashra, D.K.Avasthi, C⁵⁺- ion irradiated poly (vinylidenefluoride-co-hexafluoropropylene) based gel polymer electrode, Journ.Appl.Phys. 98(4) Art. 043514, Aug. 15, 2005, DOI 10.1063/1.2030417
 220. Aarya, S., Shahabuddin, M., Gupta, V., Dev, K., Basfar, A.A., Siddhartha, Physico-chemical modifications induced by 70 MeV carbon ions in alpha phased polyvinylidene fluoride (a-PVDF) polymer, Indian Journal of Pure and Applied Physics, Volume 52, Issue 2, February 2014, Pages 131-136
 221. L.M.Mason, A.Roberts, D.M.Jamison and A.Saint, Focused Ion Beam Litography using a MeV ion beam microprobe for microoptics fabrications, pp 1110-1113, In: Ion Beam Modification of Materials, Ed.J.S.Williams, R.G.Elliman, M.C.Ridgway, 1996, Elsevier
 222. Shaheer Akhtar M., Choi D.-J., Yang O.-B., Lee S.-K. EFFECT OF ELECTRON BEAM IRRADIATION ON THE ELECTROCHEMICAL PROPERTIES OF HETEROPOLYACID-POLYETHYLENE OXIDE COMPOSITE ELECTROLYTE FOR DYE-SENSITIZED SOLAR CELL, Current Applied Physics. 2010. T. 10. № 2 SUPPL.. C. S161-S164.
 223. J.S. Williams, R.G. Elliman, M.C. Ridgway - Ion Beam Modification of Materials, 2012 - Science, P.1113, book-isbn=0444599746
 224. L.M.Mason, D.N.Jamieson, K.A.Nugent, A.Roberts and A.Saint, Fabrication of high-aspect ratio microstructures using MeV proton beams, The seventh Australian Conference on Nuclear Techniques of Analysis, 20.10-23.10, 1991, pp.157-159
 225. K.Edinger, Focused Ion Beam for direct writing, chapter 12, pp347-381, in book: Direct write tecchnologyies for rapid prototyping, Ed. A.Pique, acad.Press, 2002
 226. J.Melngailis, Focused beam technology and applications, J.Vac.Sci.Techol.B5, P469, 1987
 227. G.Lu, A.Linsebigler, J.T.Yates, J.Phys.Chem. 99, 19, pp.7626-76-31, May, 1995
 228. Book: HEAVY IONS IN MATERIALS SCIENCE, chapter 5.2.33 C5+ Ion Irradiation Effects on Ionic Conduction in Lithium based Gel Polymer Electrolytes By D. Saikia, A.M.P. Hussain, A.Kumar, F. Singh, N.C.Mishra and D.K.Avasthi epartment of Physics, Tezpur University, Napaam, Tezpur-784028, Ion modification of membranes, 2013, p.147
 229. Wang.Y. U.Gang et al, Study of structure damage and oxidation processes in polymer, induced by ion implantation. In book: Ion beam modification of materials. Eds: JSWilliams, RG Elliman, MC Ridgney, Newnes p.1136
 230. John N. Helbert - Handbook of VLSI Microlithography, 2nd Edition <https://books.google.bg/books?isbn=0080946801>, 2001 - Technology &
 231. Alberto Piqué, Douglas B. Chrisey - Direct-write Technologies for Rapid Prototyping Focused ion beams for direct writing,, Academic Press. ...<https://books.google.bg/books?isbn=0121742318>, 2002 - Technology & Engineering
 232. D.K. Avasthi and D. Kanjilal, 5.2 SWIFT HEAVY IONS IN MATERIALS SCIENCE, http://www.iuac.res.in/reres/pub/ar/2005/Chapter_5_2a.pdf
 233. W.L.Brown, AT&T Laboratories, Muray Hill, NJ 07974, Ion bombardment effects in polymers, p.281,

234. <http://www.tandfonline.com/doi/pdf/10.1080/00337578608206104#preview>
235. Braun M., Emmoth B., Biersack J. P. beam Impact and penetration of polymery! mei //J. Appi. Phys. – 1985. – T. 58. – №. 7.
236. Moreau, W. M. (1988). Positive Radiation Resists. In *Semiconductor Lithography* (pp. 81-155). Springer US.
237. Pircher, G., and J. Perrocheau. "Submicron Lithography Tools." *The Physics and Fabrication of Microstructures and Microdevices*. Springer Berlin Heidelberg, 1986. 15-35.
238. Aarya, Suveda, Shahabuddin, Md., Gupta, Vinay, Dev, Kapil, Basfar, Ahmed A. Siddhartha. Physico-chemical modifications induced by 70 MeV carbon ions in alpha phased polyvinylidene fluoride (-PVDF) polymer //Indian Journal of Pure & Applied Physics (IJPAP). – 2015. – T. 52. – №. 2. – C. 131-136.
239. Raptis, I. "Determination of the Radiation Efficiency, Contrast and Sensitivity in Electron and Ion lithography." *Simulation of Semiconductor Processes and Devices 2001: SISPAD 01* (2012): 440.
240. SIEGEL, BENJAMIN M. "Ion-Beam Lithography." *Lithography for VLSI: VLSI Electronics Microstructure Science* 16 (2014): 147.
241. Itoh T. (Ed.). Ion beam assisted film growth. – Elsevier, 2012.
242. Brown W. L. Applications of Ion Beams in Microlithography //Erosion and Growth of Solids Stimulated by Atom and Ion Beams. – Springer Netherlands, 1986. – C. 338-365.

Работата:

A32. Mladenov G., B.Emmoth, M.Braun. Some effects at ion modification of polymethyl methacrylate, Vacuum, v 34,N 5, 1984, 551.

е цитирана в:

243. F.Janouch, E.Oppenheimer AFI biennial report 1984 - 1985, Res. Inst of Physics, Stockholm
244. J.P.Biersack, R.Kallweit, Nucl.Instrum.& Methods 46, 1990, 309-312
245. U.W.Gedde, K.Pellfolk, C.Rodehed, Ion irradiation of polypropylene J.Appl. Polym.Sci., 39,1990, 477-482
246. F.Samson, Ophthalmic lens coatings Surf.Cat.Technol., 1996, 81 (1), pp. 79-86
247. R.Michael, D.Stulik, Asemidynamic study of polym.surf.morphology developm in kapton-H-sputter etch. by 6keV Xe ions, Nucl.Instr.& Methods B, 28(2)1987, 259-263
248. J.P.Marque, Phenomenology of e-irradiated polymer breakdown, Vacuum, 39(2), 1989, 443-452
249. Guenther, K. H. (1988, July). Coating of plastics-coatings on plastic. In *1988 Los Angeles Symposium--OE/LASE'88* (pp. 134-139). International Society for Optics and Photonics.
250. Moreau, Wayne M. "Positive Radiation Resists." *Semiconductor Lithography*. Springer US, 1988. 81-155.

Работата:

A33. Braun M., B.Emmoth, G.Mladenov and H.Satherblom. Erosion of polymer thin films during ion bombardment *Journ. Vac. Sci. and Technol.*, v 1, N 3, 1983, 1383.

е цитирана в:

251. F.Janouch, E.Oppenheimer AFI biennial report 1984 - 1985, Res. Inst of Physics, Stockholm
252. R.B.Wridht Radiation Effects, V 99, 1986
253. J.P.Biersack, R.Kallweit, Nucl.Instrum.& Methods 46, 1990, 309-312
254. U.W.Gedde, K.Pellfolk, C.Rodehed, J.Appl. Polym.Sci.,39,1990, 477-482
255. R.Kallweit, Rad.Eff.& Deffects in Solids, 116, 1991, p.29.
256. R.W.Paik, H.S.Cole, R.J.Sala et al., Studies of metal benzocyclobutene BCB interface and adgesion, Journ.of Adhes.Sci.and Technol. 7(5) 1993, 403
257. J.Duckards, Radiat.effects and deffects in solids 124(4) 1992,383
258. D.K.Das-gupta, A.Goodings, Hydration effects and surface conductivity of corona charged and gamma-irradiated insulating polymers and ceramics. Proc.of Internat. Conf. on Electrical insulation, Tokio, Japan, 8-12 July 1991, v.1, pp.604-607.
259. D.K.Das-gupta, Electr.properties of surface of polymer insulator. IEEE Trans. on Electr.Insulation, 27(5)1992, 909- 923
260. H.S.Gecim, R.Howe, J.W.McGowan, I.Reid, Negative x-ray resist produced by photon bombardment, Electr.Lett.v20, 14, pp.598-599, 1984
261. R.Michael, D.Stulik, A.Semidynamic study of polymer surface morphologu development in KAPTON-H™ sputter etched by 6 keV Xenon atoms.Nucl.Instrum. & Methods , B, V28, 2, 1987. PP.259-263.
262. H.Khospoupour, E.Johanson et al., Formation and character.of Carbon layer deposited during ion bombardment of Si, Nucl.Instr. & Methods B, 37, 1989, 434-437
263. J.Rickards, E.P.Zironi, E.Andrade, Gas ejection from CR-39 under ion bombardment, Radiat. Effects and Deffects in Solids, 124(4)1992, 383-390
264. F.Carboriau, G.Cartry, M.C.Peignon, C.Cardinaud, Etching mechanisms of Si and SiO₂ in fluorocarbon in ICP plasmas: analysis of the plasma by mass spectrometry, Langmuir probe and optical emission spectroscopy, Journ.of Physics D-Applied physics, 39(9), 2006, pp.1830-1845.
265. V. MEHTA, S. KUMAR, J. K. SHARMA, Surface chemical behavior of Ni ion irradiated Kapton-H, OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS Vol. 3, No. 3, March 2009, p. 265 – 269
266. Pialat E., Trigaud T., Bernical V., Moliton J.P., MILLING OF POLYMERIC PHOTONIC CRYSTALS BY FOCUSED ION BEAM, Materials Science and Engineering: C. 2005. T. 25. № 5-8. C.618-624.
267. J.P.Biersack, A.Schmoldt, D.Fink, G.Schiweitz, Ion beam modification of PMMA-changes of optical properties, Rad.effects and defects in solids, 140(1) , 1996 , pp.63-74
268. G.Dennler, A.Houdayer, P.Raynaud, Y.SSegui, M.R.Wertheimer, Characterization by RBS of hyper thin SiO₂ layers on various polymers, Nucl.Instruments and Methods in Phys.Res.B, 192(4), 2002, pp.420-428.
269. G.Dennler, A.Houdayer, P.Raynaud, Capabilities and limitations of RBS to characterize hyper-thin Si compound layers on various polymeric substrates.

- SPolymers, 2, 2002.
270. G.Dennler, A.Houdayer, P.Raynaud, Capabilities and limitations of RBS to characterize hyper-thin Si compound layers on various polymeric substrates.in book Metallization of Polymers 2, pp.153-163, ed.E.Sacher, Springer
 271. H.S.Cole, Y.S.Liu, K.Paik, Laser processing for interconnect Technology, Final report AD-A248103, GE Res.Development Center, Schenectady, NY 12345, , US Office of Naval Research/ Strategic Defence Initiative 1988/1991, Published Febr.27, 1992
 272. R.W.Paik, R.J.Sala, J.Chera, Studies on the surface modification of Benzocyclobutene (BCB)film by plasma ions, 1990 MRS Fall Meeting 1990, 203:303(6 pages) Copyright Mat.Res.Soc 1991, DOI 10.1557/PROC-203-303
 273. J.P.Biersack, R.Kallweit, Ion beam induced changes of the refractive index of PMMA, Nucl.Instruments and Methods in Phys.Res, 46, 1-4, 1990, PP.309-312
 274. P.L.Chu, T.Whitbread, Stress formation due to fusion splicing in optical fibre, Electronics Letters, 20, 14, 1984, pp.599-600.
 275. P.L.Chu, Nondestructive refractive index profile measurements of elliptical optical fibres, 1989, p.357-358
 276. E.Sacher, Metallization of Polymers 2, Kluwer Academic/Plenum Publishers, 2002, Processing of the Montreal Workshop on Polymer Metallization, 27-29 June 2001.
 277. Hofer, Wolfgang O. Angular, energy, and mass distribution of sputtered particles. Springer Berlin Heidelberg, 1991. 167
 278. G Dennler, A Houdayer, P Raynaud, E Egui, M R Wertheimer, Characterization by RBS of hyper-thin SiO₂ layers on various polymer DOI:10.1016/S0168583X(02)004925
 280. JP Biersack, A Schmoldt, D Fink, G Schiwietz - 1996 - arch.neicon.ru, Ion beam modification of PMMA—changes of the optical properties
 281. Kallweit R., Biersack J. P. Ion beam induced changes of the refractive index of PMMA. – 1991 - arch.neicon.ru .

Работата:

A34. Emmoth B., G.Mladenov. Sputtering of a Polymer Layer Deposited on Metal Substrates, *Journ. Appl. Phys.*, v 54, N 12, 1983,

е цитирана в:

282. M. Braun, Ion bombardment as a tool to modify surf. Properties of different materials, Vacuum, 38(11) 1988, 973-977
283. U.W. Gedde, K. Perfolk, C.Rodehed, Ion irradiation of polypropylene, J.Appl. Polym. Sci., 39, 1990, 477-482.
284. J.P. Marque, Phenomenology of e-irradiated polymer, Vacuum, 39, 1989, 443-452, doi 10.1016/0042-207x89 90267-4
285. R. Michael, D. Stulik, Nucl.Instruments and Methods in Phys.Res. B, 28,2,1987, PP.259-263
286. Zimmerer, Cordelia. "Entwicklung eines optischen markierungsfreien Ionenkanalsensor-Arrays." (2007) qucosa.de.

Работата:

A37. Младенов Г. Технологические методы, основанные использования пучков электронов, *Научные приборы*, 20, 1979, 14.

е цитирана в:

287. E.Koleva, Дисертация за присъждане на научно-образов.степен"доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-лъчево заваряване", София, 2006 г.(научна специалност 02.21.06-Автомат.на инженерния труд и системи за автоматизирано проектиране).

Работата:

A40. Orlinov V., G.Mladenov, I.Petrov et al. Angular Distribution and Sputtering Yield of Al and Al₂O₃ during 40 keV Argon Ion Bombardment, Vacuum, v 32, 1982, 474.

е цитирана в:

288. Anonim, Washington State University, Department of chemistry, Annual Report, 1986
289. H.J.Whitlow, M.Hautalla, B.Sundqvist, Collision cascade parameters for slow particle impinging on bio-mol. targets, Int. J.Mass.Spectrometry., V 78, 1987, 329
290. M.Hautala, H.J.Whitlow. Momentum and recoil-flux anizotropies in collision cascades. Nuclear Instr. & Methods B 6(3), 1985, 466-473
291. W.O.Hofer, Angular ener.and mass distributions of sputtered particles, Topics in Appl.Phys., 64,1991,15
292. *S. Tsurubuchi T. Nimura, Survival probability of an excited sputtered Al atom in the 4s 2 S 1 / 2 state from a polycrystalline Al surface as a function of surface-oxygen coverage, Surface Science ,2002 | 513 | 3 | 539-548*
293. S.Tsurubuchi, T. Nimura. Survival coefficient of Ga (5s2s1/2) sputtered from Ga.As surface, Nucl.Instr.Methods Phys.Res. B 232 (1-4), 2005, pp.159-164
294. Williams, C.A. , Unifantowicz, P., Baluc, N., Smith, G.D.W., Marquis, E.A., The formation and evolution of oxide particles in oxide-dispersion- strengthened ferritic steels during processing, Acta Materialia, Volume 61, Issue 6, April 2013, Pages 2219-2235
295. Andersen, H. H., Stenum, B., Sørensen, T., & Whitlow, H. J. (1985). Angular distribution of particles sputtered from Cu, Pt and Ge targets by keV Ar^{+/-} ion bombardment. Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 6(3), 1985,459-465.
296. Hofer, Wolfgang O. *Angular, energy, and mass distribution of sputtered particles.* Springer Berlin Heidelberg, 1991. 167
297. Olofsson, Johanna, Ulf Bexell, and Staffan Jacobson. "Tribofilm formation of lightly loaded self mated alumina contacts." Wear 289 (2012): 39-45.
298. Karpuzov, D. S. "Computer simulated sputtering of polycrystalline targets by 40 keV argon ions." Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms 19 (1987): 109-113.
299. Olofsson, Johanna. "Friction and wear mechanisms of ceramic surfaces: With applications to micro motors and hip joint replacements." (2011).Upsalla University, Faculty of science and technology.ISSN 1651-6214 0346-5462 ; ISBN 978-91-554-8123
300. Бонк, Ольга Григорьевна, Моделирование переноса и переосаждения вещества, распыляемого с электродов в тлеющем разряде Диссертации по физике, математике и химии – Калуга- 2002 г, <http://fizmathim.com/modelirovanie-perenosa-i-pereosazhdeleniya-veschestva-raspylyamogo-s-elektrodom-v-tleyuschem-razryade#ixzz36cH01wdq>
301. E. Formann, F. P. Viehböck, H. Wotke, The angular distribution of scattered and

- sputtered 40-keV particles on polycrystalline targets, *Canadian Journal of Physics*, 1968, 46(6): 753-758, 10.1139/p68-093
302. <http://users.mrl.illinois.edu/papers.html> - Papers in Well-Refereed Scientific Journals (200)

Работата:

A43. Mladenov G. Computer Simulation of Ion Penetration in Polymer Resist PMMA, Intern. Conf. on Electron Beam Technol., Varna 85, BAS Publ. Hause, 1985, 23.

е цитирана в:

303. M.Posselt, J.P.Biersack, Nucl. Instr. Methods, B 15 (1986), 20 -24
304. К.А.Валиев, ЖТФ, 57, 1987, 1858-1860
305. M.Posselt. Effect of sub-cascades on energy loss and damage profiles, Phys. Stat. Sol (a), V 94, 1986,403
306. Д.Данаилов, Д.Карпузов, Ж.Овчарова, 5 ВЕИТ, Варна, 1987, реф №3
307. Д.Данаилов, Ж.Овчарова, Д.Карпузов, Моделиране на краеви ефекти при йонна имплантация, Втора международна школа по нови материали, Приморско, 28.09-3.10.1986, стр.221-225
308. D.Danailov, Karpuzov D., Numerical study of the penetrationof some ions in amorphous targets of carbon, Bulgarian Journal of Physics 14, 1987, 5, pp.439-445
309. NUMERICAL MODEL OF THE PLASMA FORMATION AT ELECTRON BEAM WELDING Trushnikov D.N., Journal of Applied Physics. 2015. Т. 117. № 1. С. 013301.

Работата:

A44. Mladenov G., R.Dimitrova, O.Stojanova, K.Jeleva. Monte Carlo Calculation on Electron Scattering in Polymer Films, Intern. Conf. on Electron Beam Technol., Varna 85, BAS Publ. House, 1985, 32.

е цитирана в:

310. M.Posselt, J.P.Biersack, Nucl. Instr. Methods, B 15 (1986), 20 -24
311. G.Grainger, Inst.of Physics, Engineering Library Inf. Center, Univ. of Illinois at Urbana, [15], p.11

Работата:

A45. Младенов Г., С.Събчевски, Г.Попова. Оценка качества технологических электронно-оптических систем в процессе их проектирования, I Международна конференция по електроннольчеви технологии ЕЛТ-85, С., Изд. БАН, Варна, 1985, 73.

е цитирана в:

312. М.Л.Жадкевич, К.А.Сукач и др. Втора межд.конф.по ЕЛТ, Варна, 1988, 113

Работата:

A46. Младенов Г., С.Събчевски, А.Титов. Исследование технологических электронно-оптических систем на основе цифрового моделирования электронных пучков, Болг. физ. журн., 12, 1985, 608

е цитирана в:

313. М.К.Михов,Диссертация за н.зв.кфн,Лаборат.към СО "Електрон", София,1977

Работата:

A47. Младенов Г., С.Събчевски, Г.Попова. Фазовый анализ пучков заряженных частиц по результатам траекторного анализа, *Ж Т Ф*, т.56, в. 4, 1986, 652.

е цитирана в:

314. E.Koleva, Дисертация за присъждане на научно-образов.степен"доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-льчево заваряване", София,2006г.(научна специалност 02.21.06-Автомат.на инженерния труд и системи за автоматизирано проектиране).

Работата:

A51. Младенов Г., Х.Тенчев, Н.Димитров, Р.Димитрова. Электронные технологии, ЮБ. сборник 20 лет ИЭ БАН, 1985, 150.

е цитирана в:

315. Л. Спасов, Г. Камишева, М. Борисов за себе си и другите за него, А. Изд. М. Дринов, София, 2008

Работата

A53. Mladenov G, Sankov C (1985) Ueber die physikalischen Prozesse und Waermevergaenge beim Elektronenstrahlenschweissen. On the physical processes and heat phenomena in electron beam welding. DVS-Berichte 99: 156–158

е цитирана в:

316. S. Böhm The electron beam as a tool for joining technology, Study on the occasion of the DVS research seminar in Halle (Saale) on February 20, 2014, DVS Report Volume 299e
 317. Prof. Dr.-Ing. S. Böhm, DVS-Forschungsseminar 2014 „Der Elektronenstrahl als Werkzeug für die Fügetechnik: Hochleistungsfügeverfahren mit Präzision und Effizienz für innovative, file:///C:/Users/germanos-pc/Downloads/DVS-Media GmbH, Dusseldorf.

Работата:

A54. Mladenov G., M.Braun, B.Emmoth, J.Biersack. Ion Beam Impact and Penetration of Polymethyl Methacrylate, *Journ. Appl. Phys.*, v 58, N 7, 1985, 2534.

е цитирана в:

318. F.Janouch, E.Oppenheimer AFI biennial report 1984 - 1985, Res. Inst of Physics, Stockholm, p.25
 319. R.Murata, DF Kyser, Monte-Carlo method and microlithography simulation for electron and X-ray beams. Adv. Electr. Physics, V 69, 1987, 175-259
 320. H.H.Andersen, Nucl.Instr. and Methods B 18, 1986, Computer simulations of atomic collisions in solids with special emphasis on sputtering, pp.321-343
 321. H.J.Whitlow, M.Hautalla, B.Sundqvist, Collision cascade parameters for slow particle impinging on bio-mol. targets, Int. J.Mass.Spectrometry., V 78, 1987, 329
 322. M.Brown, Ion bombardment as a tool to modify surf. Properties of different materials, Vacuum, 38(11) 1988, 973-977
 323. Q.T. Zhao,K.M. Wang,J.T. Lin,X.D. Lui,S.M. Deng,J. Lui,K. Ya , Range profiles of implanted Ar ions in polymers, Rad.Effects and Deffects in Solids,128,4,287-293,1994.

324. F.A.Gienturco,R Lucchess,N.Sanna.Journ.of Chemical physics,100,9,pp.6464-6471
325. W.Eckstein, Computer simulation of Ion Solid Interaction , Springer Verlag, Berlin, Haidelberg, New York, Tokyo, Hong Kong, Barcelona, Budapest,1991
326. В.Экштайн.Компьютерное моделирование взаимодействия частиц с поверхностью тв.тела, Изд.Мир, М.1995
327. L.Alimova,I. Djamaletdinova, T.Pugacheva, I.Ilicheva,Vacuum, 43,1992, p.699.
328. R.Kallweit, Ion beam induced changes in refractive index of PMMA, Nucl.Instr. and Methods in Phys. Res.B46,, 1-6, 1990
329. R.Kallweit,Ion beam induced changes in PMMA, Rad.Effects and Defects in Solids, 116, 1991, p.29,
330. U.W.Gedde, K.Pellfolk, C.Rodehed, J.Appl.Polym. Sci, 39,1990, 477-482
331. B.Brown, Ion bombardment as a tool to modify surf.properties of different materials, Vacuum, 38, 11, 1988, 973-977
332. K.Walachova, L.Bacakova, B.Dvorankova et al., Biocompatibility of polymers modified by high energy ions, Chemicke Listy 96(1) 2002, 19-24
333. J.Duckards, Radiat.effects and defects in solids 124(4) 1992,383
334. N.Gavrilov, D.Yakusheva, A.Kondyurin, Structure of polyethylene after pulce ion beam treatment, J. Appl.Polymer Sci., 89(6) 1998, 1071-1077
335. R.M.Yakushev, D.E.Yakusheva, T.E.Oschepkova, N.V.Gavrilov, Modification of ultrahigh molecular weight polyetilene fibers by ion beam treatment. Journal of Appl.Polymer Science, 122, 3, pp.1628-1632, doi 10.1002/app. 33965, 2011
336. P.A.Miller, Image projection ion beam lithography, J. Vac.Sci, Technol.,B, 7(5) 1989, 1053-1063
337. R Kasmaier, Ph.D. dissertation, Ionen-Projecttions-Lithographie fur die Industrielle Herstellung von Schaltungen mit Strukturgrossen kleiner 100 nm, University of Kassel, Germany, May 2000.
338. J.S.Lee, J.K.Kil, J.H.Ha, J.H.Lee and B.H.Chi, Enhancement of IC tray's surface conductivity using accelerator technology, Proc.of the 2001 Particle Accelerator conference, Chicago, IEEE (2001),pp2799-2801
339. F.Carboriau, G.Cartry, M.C.Peignon, C.Cardinaud, Etching mechanisms of Si and SiO₂ in fluorocarbon in ICP plasmas: analysis of the plasma by mass spectrometry, Langmuir probe and optical emission spectroscopy, Journ.of Physics D-Applied physics, 39(9), 2006, pp.1830-1845.
340. G.Grainger, Inst. of Phys., Engineer. Library Inf. Center, Univ. of Illinois, at Urbana, [21], p 11.
341. W.Schnabel, S.Klaumunzer, The effect of ion beam irradiation in polymers, Radiation Physics and Chem., v.37, 1991, 131-134.
342. W.Schnabel, S.Klaumunzer, Linear energy transfer effects in polymers, Polymer Reprints, 1990, ACS Publications
343. W.Schnabel, Q.Q.Zhu, S.Klaumunzer, Radiation effects in Polymers, Chapter 3, pp.44-52, ACS Sumposium series, v.475, 1991 American Chemical Society, DOI 10.1021/bk.-1991-0475/ch 003
344. J.Melingailis, Application of ion microbeam lithography and direct processing, Handbook of VLSI Lithography, 2001
345. E.H.Lee, G.R.Rao, L.K.Mansur, Linear energy effects on cross linking and scission mechanisms, Radiat. Physics Chem., 55, 3, 1999, 293-305.
346. E.H.Lee, Ion beam modification of polymer materials- fundamental principles and applications, Nucl.Instr. and Methods in Phys. Res.B 151, 1-4, 1999, 29-41.
347. E.H.Lee, G.R.Rao, L.K.Mansur, Linear energy effects on cross linking and scission

- mechanismsof PMMA during irradiation, Nucl.Instr. and Methods in Phys. May, 1993, 403-415
348. J.Melingailis, A.Mondelly, I.L.Berry, A review of ion projection lithography, J. Vac.Sci.Technol., B, 16,3, 1998, 927-957.
349. I.L.Berry, Economic and technical analysis of projection ion lithography, J. Vac.Sci.Technol., B,16, 4, 1998, 2444-2448.
350. M.S.Akhtar, D.J.Chi, S.K.Lee, O.B.Yang, Effect of electron beam irradiation on the electrochemical properties of heteropolyacid-polyetillene oxide composite electrolyte for dye sensitized solar cell, Current Applied Physics, 10; s161-s164, Sp.Iss.SI Suppl.2, march 2010, (Internat. Renewable Energy Conference, oct.13-17, Bussan, South Korea)
351. M.S.Akhtar, D.J.Chi, S.K.Lee, O.B.Yang,Effect of EB radiation on the properties of polyethylene oxide TiO₂ composite elecrtrolyte for DSSC, Material Science Forum, v.658, p.161-164.
352. D.Saikia, A.Kumar, F.Singh, D.K.Avasthi, Study of Li³⁺ion irradiation effects in P(VDF-HFP) based gel polymer electrolytes for application of Li-ion battery, Journ.of Physics D-Appl.Physics, 39,19, 2006, pp.4208-4214.
353. D.Saikia,A.M.P.Hussain, A.Kumar, F.Singh, N.C.Mishra, D.K.Avasthi, C⁵⁺ion irradiation effects on ionic conduction in Lithium based Gel polymer electrolytes, annual Report AR 2004-2005, IUAK, India, Chapter 5.2, paper 5.2.33, pp.213-216.
354. D.Saikia, A.Kumar, F.Singh, D.K.Avasthi, N.C.Mishra, , Ionic conduction in 70-MeV C⁵⁺ ion irradiated poly(vinylidenefluoride-co-hexafluoropropilene) based gel polymer electrode, Journal Appl.Physics, 98 (4): Art. 043514, Aug. 15 2005, DOI 10.1063/1.2030417
355. L.M.Mason, D.N.Jamieson, K.A.Nugent, A.Roberts and A.Saint, Fabricationof High-Aspect Rathio Microstructures Using MeV Proton Beams, The Seventh Australian Conference on Nuclear Techniques of Analysis, 20.10-23.10, 1991, pp.157-159
356. M.S.Akhtar,, U.Y.Kim, D.J.Chi, O.B.Yang, Composite electrolyte. Dye sensitized solar cell. EB irradiation polyethylene oxide TiO₂ , Material science forum, 658, Eco-materials processing and design, 2010, pp.161-164.
357. K.Edinger, Focused Ion Beam for direct writing, chapter 12, pp347-381, in book: Direct write tecchnologyies for rapid prototyping, Ed. A.Pique, acad.Press, 2002
358. J.Melingailis, Focused beam technology and applications, J.Vac.Sci.Technol.B5, P469, 1987
359. R.M.Yakushev, D.E.Yakusheva, T.E.Oschepkova, N.V.Gavrilov, Modification of ultrahigh molecular weight polyetilene fibers by ion beam treatment. Journal of Appl.Polymer Science, 122, 3, pp.1628-1632, doi 10.1002/app. 33965, 2011
360. K.Murata, D.F.Kyser, Monte Carlo method and microlithography simulation for electron and X-ray beams, Advances in electronics and electron physics, 69, p.176, Academic Press, 1987
361. Schmoldt, A., Fink, D., Schiwietz, G., Ion beam modification of PMMA - Changes of the optical properties , 1996, Radiation Effects and Defects in Solids v.140, 1, 1996, p.p.63-74
362. Pialat, E., Trigaud, T., Bernical, V., Moliton, J.P. Milling of polymeric photonic crystals by focused ion beam, 2005 , Materials Science and Engineering C 25 (5-8), pp. 618-624
363. Dennler, G., Houdayer, A., Raynaud, P., Ségui, Y., Wertheimer, M.R., Characterization by RBS of hyper-thin SiO₂ layers on various polymers , 2002,

Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms (I F: 1.19). 01/2002; 192(4):420-428.
DOI: 10.1016/S0168-583X (02)00492-5

364. J. Richards, E.P.Zironi, E.Andrade, Gas Ejection from CR-39 Under Ion Bombardment, Radiation Effects and Defects in Solids, Oct 1992

Авторско свидетелство:

A57. Младенов Г., В.Орлинов, Р.Димитрова. Метод за електронно-литографско получаване на негативни изображения в позитивни фоторезисти, Авторско свидетелство N 19539, 1973.

е цитирано в :

365. В.В.Аристов, В.В.Корабова, В.А.Кудряшов, Втора межд.конф.по ЕЛТ, Варна, 1988, 310
 366. В.В.Аристов, Н.Н.Дремова, В.А.Кудряшов, А.А.Чукалин, Втора межд.конф.по ЕЛТ, Варна, 1988, 363.
 367. V.A.Kudrashov, T.B.Borzenko, V.V.Krasnov, V.V.Aristov, New microlithography technologies based on resist irradiation by low energy electrons. Microelectronic Engineering, Jan.1994.

I I. Цитирания на автореферата на докторската дисертация и на трудове, невключени в нея

Работата

1. Г.Младенов. *Автореферат "Физические процессы взаимодействия пучков заряженных частиц с материалами в электроннолучевых и ионнолучевых технологиях"* София, ИЕ БАН, 1986.

е цитиран в:

368. D.Danailov, D.Karpusov, Numer.study of the penetration of some ions in amorphous targets of carbon, Bulg.J.Phys., 14, 1987, 5, 439-445
 369. Пл.Запрянов, Дипломна работа: Разработване на технология за електроннолъчево рафиниране на мед, ТУ София-филиал Пловдив, Факултет МУ, катедра МТТ(2002)
 370. G.Grinder, Institute of Physics, Engineering Library inf. Center, University of Illinois at Urbana, [18], p.11

Книгата:

2. В.М.Спивак, Т.А.Терещенко, В.Д.Шелягин, Г.М.Младенов - Системы управления лучевых технологических установок, Киев, изд."Техника", 1988, с 272.

е цитирана в:

371. Пл.Запрянов, Дипломна работа: Разработване на технология за електроннолъчево рафиниране на мед, ТУ София-филиал Пловдив, Факултет МУ, катедра МТТ(2002)
 372. Татьяна Борисовна Радченко, автореферат диссертации по электротехнике,

- теме "Комбинированные электротехнологии нанесения защитных покрытий и разработка систем управления их качеством" 05.09.10- Электротехнология, для ученой степени д.т.н., Новосибирск 2000, Работа выполнена в Алтайском государственном техническом университете им. И.И. Ползунова
373. Министерство образования и науки Российской Федерации, ГОУ ВПО «Волгоградский государственный университет» Физико-технический институт, Кафедра лазерной физики, ПРОГРАММА вступительного экзамена в магистратуру по направлению подготовки 200500 «ЛАЗЕРНАЯ ТЕХНИКА И ЛАЗЕРНЫЕ ТЕХНОЛОГИИ» Литература по лазерным технологиям-№5
374. Головачев А.М., Разработка систем управления процессами нанесения износостойких защитных покрытий электроннолучевым методом.Автореферат на дисс. для к.т.н., Барнаул, 2001, Технологии и машины сварочного производства, стр.153
375. E.Koleva, I.Batchkova, K.Velev, Engineering support system for modeling and control of the process of EBMR of Metals, ИЭС Патон, Otdel 77, Общая информация, Книги сотрудников отдела и в сотрудничестве с внешними организациями, <http://paton.kiev.ua/ru/o-nas/otdely/127-77-specializirovannaya-vysokovoltnaya-tehnika-i-lazernaya-svarka/1094>
376. http://library.gpntb.ru/cgi/irbis64r_simplesite/cgiirbis_64.exe?C21COM=S&I21DBN=RSK&P21DBN=RSK&S21FMT=infow_wh&S21ALL=%28%3C.%3EU%3D621.9.048.7%3C.%3E%29&Z21ID=&S21SRW=GOD&S21SRD=&S21STN=1&S21REF=10&S21CNR=20
377. http://irbis.sstu.ru/cgi-bin/irbis64r_13/cgiirbis_64.exe?LNG=&C21COM=S&I21DBN=SGTU&P21DBN=SGTU&S21FMT=infow_wh&S21ALL=%3C.%3EK%3D%D0%9B%D0%A3%D0%A7%D0%95%D0%92%D0%AB%D0%95%20%D0%A3%D0%A1%D0%A2%D0%90%D0%9D%D0%9E%D0%92%D0%9A%D0%98%3C.%3E&Z21ID=&S21SRW=dz&S21SRD=&S21STN=1&S21REF=5&S21CNR=10
378. Н.В.Ярка, Растрове управління процесом лазерного запису фотополімерних друкальских форм, стр.175-179, 2011, dspace.nbuv.gov.ua/bitstream/.../24-Yarka.pdf?...
379. ЯРКА НАТАЛІЯ ВОЛОДИМИРІВНА, УДОСКОНАЛЕННЯ ТЕХНОЛОГІЙ ВИГОТОВЛЕННЯ ШТАМПІВ ЛАЗЕРНИМ ГРАВІЮВАННЯМ ДЛЯ ОЗДОБЛЕННЯ ПОЛІГРАФІЧНОЇ ПРОДУКЦІЇ 05.05.01 – машини і процеси поліграфічного виробництва, Дисертація на здобуття наукового ступеня кандидата технічних наук, Львів 2013
380. Опис кредитного модуля (дисципліни) Спеціалізовані і промислові мікропроцесорні системи , КПІ, Факультет – Електроніки Кафедра – Промислової електроніки
381. Чередниченко В.С., Радченко М.В., Радченко Т.Б., Шевцов Ю.О., ТЕОРИЯ И ПРАКТИКА КОМБИНИРОВАННЫХ ЭЛЕКТРОТЕХНОЛОГИЙ СОЗДАНИЯ ЗАЩИТНЫХ ПОКРЫТИЙ, Монография / Москва, 2018. Сер. Научная мысль

Работата:

5.И.Н.Петров, Т.А.Дубова, Г.М.Младенов, Б.Я.Мойжес, О.В. Сорокин и Э.М.Шер - Взаимодействие паров бария на электропроводимост, термоэдс и работу выхода (Ba, Sr, Ca/O), Физика и техника полупроводников, т. 2 в 1, 1968, с 83-92.

е цитирана в:

382. Б.Я.Мойжес, Физические процессы в оксидном катоде, Изд.Наука,М.,1963
 383. OV.Sorokin, E.M.Sher, El.properties of Ca-Sr-O in Ba vapor, Fiz.Tverd.Tela, 13(10), 1972, 2478
 384. N.N.Kovalev, O.V.Sorokin, E.M.Sher, Conductivity of grain surfaces in porous semiconducting oxides, Fiz.Tverd.Tela, 13(8), 1972, 1980
 385. П.В.Ковтуненко, Я.Хариф, Нестехиометрия окислов, щелочноземельных металлов, Успехи химии, том XLVIII, 3, 1979, СТР.448-480.
 386. P V Kovtunenko and Ya L Kharif, Non-stoichiometry of the Alkaline Earth Metal Oxides, 1979 Russ. Chem. Rev. 48 243 doi:10.1070/RC1979v048n03ABEH002320

Работата:

6. **П.Петров, Г.Младенов, В.Михайлов - Расчет температурных полей при ЭЛС методом конечных элементов, I Межд.конф. по эл.лъч.технологии, Варна, 1985, с 183.**

е цитирана в:

387. В.В.Башенко, Е.М.Васильева, Н.Н.Децик, В.Карахин, ИСартакова, Исследование кинетики напряжений и деформации при ЭЛС осесимметричных тел, II Межд. конф. по электр.лъч. технологии, Варна, 1988, с 509-514
 388. K.Friedel, Electronika, n.8-9, 1993, 11.
 389. E.Koleva, Дисертация за присъждане на научно-образов.степен"доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-лъчево заваряване", София,2006г.(научна специалност 02.21.06-Автомат.на инженерния труд и системи за автоматизирано проектиране).
 390. Wu Hui-Qiang, Feng Ji Cai, He Jing Shan, Research status and development of causing mechanism of deep penetration-Review on EB welding. Welding and Joining, 2003, 8, pp.5-7.
 391. Автореферат диссертации по обработке конструкционных материалов машиностроения, 05.03.06, диссертация на тему:Разработка, развитие и применение теоретических и экспериментальных методов исследований термических, структурообразующих, термодиффузионных и термомеханических процессов при сварке, диссертация за получаване на доктор технических наук Веселин Георгиев город Санкт-Петербург год 1997, специальность ВАК РФ05.03.06
 392. 吴会强, 冯吉才, & 何景山. (2003). 电子束焊接深熔产生机理的研究现状与发展. 焊接, (8), 5-7.

Работата:

25. A.Chaplanov, A.Shibko, T.Djakov, G.Mladenov. Structural and phase transformation in electron-beam treated titanium films, *Thin Solid Films*, 143, 1986, 187-192.

е цитирана в:

393. Williams, C.A. , Unifantowicz, P., Baluc, N., Smith, G.D.W., Marquis, E.A., The formation and evolution of oxide particles in oxide-dispersion- strengthened ferritic steels during processing, Acta Materialia, Volume 61, Issue 6, April 2013, Pages 2219-2235
 394. Ma, M., Wang, L., Tang, B., (...), Wang, Y., Tan, X., Kinetics of hydrogen

- desorption from titanium hydride under isothermal conditions, 2018, International Journal of Hydrogen Energy, 43(3), c. 1577-1586
395. Williams, C.A., Unifantowicz, P., Baluc, N., Smith, G.D.W., Marquis, E.A., The formation and evolution of oxide particles in oxide-dispersion- strengthened ferritic steels during processing, 2013, Acta Materialia 61(6), c. 2219-2235

Работата:

- 27. Г.Младенов, Р.Димитрова, К.Вутова - Цифровое моделирование проникновения быстрых электронов в твердые образцы, Болг. физ. журнал, 1987, кн. 5, стр.446-456**

е цитирана в:

396. Й.Георгиев,Автореферат "Числено моделиране на проникването на ускорени електрони в тв.тяло и някои конкретни приложения" зо н.и о.с. д-р,София,1996
397. Y.Georgiev, Proc.8-th Intern.School"VEIT",Sept.26-Oct.1, 1993, Varna, ed.D.Karpuзов, NOVA Sci.Publish.1994, 405- 411
398. А.Калчева, Дипл.работка "Електроннольчево нанасяне, обработка и литография на ВТС покрития" ТУ София, Катедра ТППМЕ, 1996
399. G.Grainger, Institute of Physics, Engineering LibraryInf.Center, University of Illinois at Urbana, [17]. P.11
400. Куликов Виктор Дмитриевич, ЭЛЕКТРИЗАЦИЯ НЕОРГАНИЧЕСКИХ ДИЭЛЕКТРИКОВ ПРИ ИМПУЛЬСНОМ ЭЛЕКТРОННОМ ОБЛУЧЕНИИ, Специальность 01.04 07 - физика конденсированного состояния, АВТОРЕФЕРАТ диссертации на соискание ученой степени доктора физико-математических наук, Челябинск 2007, Диссертация выполнена в Томске

Работата:

- 28. Р.Димитрова, Г.Младенов, К.Вутова - Теоретическое и экспериментальное исследование параметров функции, характеризующей эффект близости, Болг. физ. журнал, 1987, кн. 6.,589-595.**

е цитирана в:

401. Й.Георгиев,Автореферат "Числено моделиране на проникването на ускорени електрони в тв.тяло и някои конкретни приложения" зо н.и о.с. д-р,София,1996
402. G.Grainger, Institute of Physics, Engineering LibraryInf.Center, University of Illinois at Urbana, [22]. P.11

Работата:

- 29. G.Mladenov, H.Seyfarth - General problems on high resolution lithography, Vacuum, v 36, 1986, N 10, 649.**

е цитирана в:

403. Р. Димитрова, Автореферат на канд.дисерт.(кфн),ИЕ БАН, София, 1987,
404. Raptis, I. "Determination of the Radiation Efficiency, Contrast and Sensitivity in Electron and Ion lithography." Simulation of Semiconductor Processes and Devices 2001: SISPAD 01 (2012): 440.
405. Vukićević R., Beuermann S., FULLERENES DECORATED WITH POLY (VINYLIDENE FLUORIDE), Macromolecules. 2011. Т. 44. № 8. С. 2597-2603.

406. Vukićević R., Schwadtke U., Beuermann S., Schmücker S., Schäfer P., Kuckling D. *Polymer Chemistry*. 2012. T. 3. № 2. C. 409-414.
407. Wormald P., Ameduri B., Harris R.K., Hazendonk P. *HIGH-RESOLUTION 19F AND 1H NMR OF A VINYLIDENEFLUORIDE TELOMER*, *Polymer*. 2008. T. 49. № 17. C. 3629-3638.

Работата:

30. Г.Младенов, С.Сабчевски, К.Вутова - Оценка эмиттанса и яркости пучков заряженных частиц, применяемых в технологических процессах, Болг.физ. журнал, 1987,14,1,стр. 97-102.

е цитирана в:

408. St.Wojcicki, Analiza I projektowanie srednioperweancyjnych wyrzutni elektronowych duzej mocy z zastosowaniem statystycznych metod planowania doswiadczen, Rozprawa doktorska, Instytut Technologii Prozniowej w Warszawie, Politechnika Wroclawska, Inst. Technol. Elektronowej, Wroclaw, 1996
409. St.Wojcicki, K.Friedel, Projektowanie wyrzutni elektronowych duzej mocy, Elektronika (XXXVI), 11, 1985, 32
410. St.Wojcicki, Kazimierz Friedel, Abstracts of the Tenth Intern. School on Vacuum, Electron and Ion Technologies VEIT-97 (22-27 Sept. 1997, Varna, Bulgaria), p.76
411. St.Wojcicki, K. Friedel, Systematical error of the measurement of electron beam emittance, Vacuum, 51,2, 1998, 113-118
412. Е.Колева, Дипломна работа: "Компютърен модел на електроннолъчево топене и рафиниране", София, 1999, Химико-технологичен и Металургичен Университет (ХТМУ) - София, катедра "Автоматизация на производството", (1999)
413. E.Koleva, Дисертация за присъждане на научно-образов.степен"доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-лъчево заваряване", София, 2006г.(научна специалност 02.21.06-Автомат.на инженерния труд и системи за автоматизирано проектиране).

Работата:

34. С.Сабчевски, Г.Младенов - Критерии и принципы оптимизации концентрирующих электронно-оптических систем, ЖТФ, N 11, 1988, с 2063.

е цитирана в:

414. L.Boesten, K.Okada, Hairpin electron beam for low-energy use, *Meas. Sci. Technol.* v11 (2000) pp.576 – 583
415. S.I.Molokovsky, A.D.Sushkov, *Intense Electron and Ion Beams*, Springer Science & Business Media., 2005
416. E.Koleva, Дисертация за присъждане на научно-образов.степен"доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-лъчево заваряване", София, 2006г.(научна специалност 02.21.06-Автомат.на инженерния труд и системи за автоматизирано проектиране).
417. P. Misaelides - Application of Particle and Laser Beams in Materials ...1995 - Science pp. 513.-524
418. Emittance measurements of an electron beam formed by a Pierce-type gun,

- Appendix, cds.cern.ch/.../978-3-540-28812-1_BookBackMa...
419. Molokovskiy S.I., & Sushkov, A. D. (2005). *Intense Electron and Ion Beams*. Springer- physics.technion.ac.il

Работата:

35. G.Mladenov, P.Petrov, S.Sabchevski - Physical and Heat Processes in Electron Beam Welding Consequences on the Technology of the Electron Gun and on the Optical System. *Proc. of 4th Intern.Colloquium on Welding and Melting by Electron and Laser Beams,Cannes, 26-30 Sept. 1988, France.*

е цитирана в:

420. М.Б.Пеева, Дипломна работа : Моделен подход за повишаване качеството при електронно-лъчево заваряване, ХМТУ-София, Катедра Автоматизация на производството, (2003)
421. E.Koleva, EB weld parameters and thermal efficiency improvement, Proc.7-th Intern.Conf. on EBT, Varna, 1-6 June 2003, pp 210-220
422. E.Koleva, Electron beam weld parameters and Thermal efficiency Improvement,Vacuum, v77, 4, (2005), 413-421
423. E.Koleva, Дисертация за присъждане на научно-образов.степен"доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-лъчево заваряване",София,2006г.(научна специалност 02.21.06-Автомат.на инженерния труд и системи за автоматизирано проектиране).

Работата:

43. Г.Младенов, П.Петров - О тепловой модели ЭЛС металлов, II Межд.Конфер. по ЭЛТ-88, Варна, 1988, с 472.

е цитирана в:

424. K.Friedel, Electronika, n.8-9, 1993,11.
425. M.Kardjiev, Proc. 4th Int. Conf. on EBT, Varna 1994, 123-128
426. E.Koleva, Дисертация за присъждане на научно-образов.степен"доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-лъчево заваряване",София,2006г.(научна специалност 02.21.06-Автомат.на инженерния труд и системи за автоматизирано проектиране).

Авторското свидетелство:

- 55.Б.Патон, О.Назаренко, А.Бондарев и др., Г.Младенов - Устройство для управления установкой электронно-лучевой сварки и наплавки, Авторско свидетелство СССР, № 1333506, заявка 3857328 от 20.02.1985г

е цитирано в:

427. <http://patentdb.su/patents/kajjdalov>
428. <http://www.findpatent.ru/patent/133/1333506.html>

Авторското свидетелство:

- 56.Н.Атанасов, В.Василева, Г.Младенов - Метод за рафиниране на мед, Авторско свидетелство N 42111, 1988.

е цитирано в

429. Пл. Запрянов, Дипломна работа: Разработване на технология за електронно-лъчево рафиниране на мед, ТУ София-филиал Пловдив, Факултет М, катедра МТТ (2002)

Работата

1. **B.Spangenberg, G.Mladenov, V.Orlinov, S.Kaparaschev, Abhangigkeit des schichtwiderstandes vom regime der borimplantation in silizium und den ausheilbedingungen, Comptes rendus de l'Academie bulgare des Sciences, V 33, N 3, 1980, p 325.**

е цитирана в:

430. Nishimura K., Larson III J. D., Gilbert S. R. Acoustically communicating data signals across an electrical isolation barrier: пат. 7525398 СИИА. – 2009.
431. Ruby R. C. Piezoelectric resonator structures and electrical filters: пат. 7629865 СИИА. – 2009.
432. Larson III J. D. et al. Film bulk acoustic resonator (FBAR) devices with temperature compensation: пат. 7561009 СИИА. – 2009.
433. Hoen S. T. et al. Film-bulk acoustic wave resonator with motion plate and method: пат. 7427819 СИИА. – 2008.
434. Ruby R. C., Pang W. HBAR oscillator and method of manufacture: пат. 7508286 СИИА. – 2009
435. Fazzio R. S., Feng H. Acoustic resonator performance enhancement using selective metal etch and having a trench in the piezoelectric: пат. 7791434 СИИА. – 2010
436. Choy J., Feng C., Nikkel P. Acoustic resonator structure comprising a bridge: пат. 8248185 СИИА. – 2012.
437. Jamneala T., Larson III J. D., Ruby R. Impedance transforming bulk acoustic wave baluns: пат. 7612636 СИИА. – 2009.
438. Agajanian A. H. Ion implantation in microelectronics: a comprehensive bibliography. – Ifi/Plenum Data Corp, 1981. – Т. 1.
439. Ruby R. C. et al. Acoustic resonator performance enhancement using alternating frame structure: пат. 7714684 СИИА. – 2010.
440. Dungan T. E., Fazzio R. S. Wafer bonding of micro-electro mechanical systems to active circuitry: пат. 8143082 СИИА. – 2012.
441. Larson III J. D. et al. Film bulk acoustic resonator package and method of fabricating same: пат. 7615833 СИИА. – 2009.
442. Frank M. L., Ruby R. C., Jamneala T. Bulk acoustic resonator electrical impedance transformers : пат. 7855618 СИИА. – 2010.
443. Larson III J. D. AC-DC power converter: пат. 7852644 СИИА. – 2010.
444. Fazzio R. S. et al. Electronic device on substrate with cavity and mitigated parasitic leakage path: пат. 7479685 СИИА. – 2009.
445. Larson III J. D., Hardcastle I. Acoustic galvanic isolator incorporating series-connected decoupled stacked bulk acoustic resonators: пат. 7737807 СИИА. – 2010.
446. Larson III J. D. Acoustic galvanic isolator incorporating single decoupled stacked bulk acoustic resonator: пат. 7675390 СИИА. – 2010.
447. Unkrich M. AC-DC converter circuit and power supply: пат. 8238129 СИИА. – 2012.
448. Martin S., Buccafusca O. Transceiver circuit for film bulk acoustic resonator (FBAR) transducers: пат. 7732977 СИИА. – 2010.
449. Fazzio R. S., Feng H. Acoustic resonator performance enhancement using selective metal etch: пат. 8188810 СИИА. – 2012.
450. Fritz M. et al. Duplexer with negative phase shifting circuit: пат. 8193877 СИИА. – 2012.
451. Jamneala T. Single stack coupled resonators having differential output: пат.

- 7791435 CIИA. – 2010.
452. Fazzio R. S. et al. Electronic device on substrate with cavity and mitigated parasitic leakage path: пат. 8080854 CIИA. – 2011.
 453. Fazzio R. S., Ruby R. C. Method of fabricating an acoustic resonator comprising a filled recessed region: пат. 8230562 CIИA. – 2012.
 454. Ruby R. C. Acoustic resonator formed on a pedestal: пат. 8922302 CIИA. – 2014.
 455. Choy J., Feng C., Nikkel P. Acoustic resonator structure having an electrode with a cantilevered portion: пат. 8902023 CIИA. – 2014.
 456. Shirakawa A. A. et al. Stacked bulk acoustic resonator: пат. 8575820 CIИA. –
 457. Shirakawa A., Burak D., Nikkel P. Bulk acoustic resonator comprising non-piezoelectric layer and bridge: пат. 8350445 CIИA. – 2013.
 458. Whetten T. J., Richling W. P. Semiconductor device having an airbridge and method of fabricating the same: пат. 8962443 CIИA. – 2015.
 459. Jamneala T., Ruby R. C. Piezoelectric resonator structures and electrical filters having frame elements: пат. 8981876 CIИA. – 2015.
 460. Ruby R. C., Larson J. D., Bradley P. D. Manufacturing process for thin film bulk acoustic resonator (FBAR) filters: пат. 7802349 CIИA. – 2010.
 461. Burak D. et al. Bulk acoustic resonator comprising piezoelectric layer and inverse piezoelectric layer : пат. 8796904 CIИA. – 2014.
 462. K Nishimura, J Larson, S Gilbert - US Patent App. 11/252,845, 2005 - Google Patents. Acoustically communicating data signals across an electrical isolation barrier.
 463. K Nishimura, JD Larson III... - US Patent 7,525,398, 2007 - freepatentsonline.com, acoustically communicating data signals across an electrical isolation barrier
 464. S Hoen, M Unkrich, W Trutna, J Larson... - US Patent App. 11, 2005, Film-bulk acoustic wave resonator with motion plate.
 465. ST Hoen, MA Unkrich, WR Trutna... - US Patent ..., 2006 - freepatentsonline.com. Patent No. 20,060,197,411. 7 Sep. 2006.
 466. Ruby, R. C., & Pang, W. (2006). *U.S. Patent Application 11/540,413*.
 467. RC Ruby, W Pang - US Patent App. 11/540,413, 2006 - Google Patents, HBAR oscillator and method of manufacture.
 468. 39.RS Fazzio, H Feng - US Patent 20,060,132,262, 2006 - freepatentsonline.com, Acoustic resonator performance enhancement using selective metal etch.
 469. Fazzio, Ronald, and Hongjun Feng. "Acoustic resonator performance enhancement using selective metal etch." U.S. Patent Application 11/021,085.
 470. Choy, John, Chris Feng, and Phil Nikkel. "Acoustic resonator structure comprising a bridge." U.S. Patent Application 12/490,525.
 471. Choy, John, Chris Feng, and Phil Nikkel. "Acoustic resonator structure comprising a bridge." U.S. Patent No. 20,100,327,697. 30 Dec. 2010.
 472. Jamneala, Tiberiu, John D. Larson III, and Richard Ruby. "Impedance transforming bulk acoustic wave baluns." U.S. Patent No. 20,070,176,710. 2 Aug. 2007.
 473. Jamneala, Tiberiu, John Larson, and Richard Ruby. "Impedance transforming bulk acoustic wave baluns." U.S. Patent Application 11/343,117.
 474. Ruby, Richard C., et al. "Acoustic resonator performance enhancement using alternating frame structure." U.S. Patent Application 12/115,666.TE Dungan, RS Fazzio - US Patent 7,202,560, 2007 - freepatentsonline.com, Wafer bonding of micro-electro mechanical systems to active circuitry.
 475. Ruby, Richard C., et al. "ACOUSTIC RESONATOR PERFORMANCE ENHANCEMENT USING ALTERNATING FRAME STRUCTURE." U.S. Patent

- No. 20,080,258,842. 23 Oct. 2008.
476. Dungan, Thomas E., and Ronald S. Fazzio. "Wafer bonding of micro-electro mechanical systems to active circuitry." U.S. Patent No. 7,202,560. 10 Apr. 2007.
477. Dungan T. E., Fazzio R. S. Wafer bonding of micro-electro mechanical systems to active circuitry: U.S.Patent 8143082– 2012. Washington, DC: U.S. Patent and Trademark Office
478. L John, Q Bai, F Matta, T Verhoeven - US Patent App. 10/890,343, 2004 - Google Patents, Film bulk acoustic resonator package and method of fabricating same.
479. Larson III, John D., et al. "Film bulk acoustic resonator package and method of fabricating same." U.S. Patent No. 20,060,012,021. 19 Jan. 2006.
480. Frank, Michael L., Richard C. Ruby, and Tiberiu Jamneala. "Bulk acoustic resonator electrical impedance transformers." U.S. Patent Application 12/112,633.
481. ML Frank, RC Ruby... - US Patent 20,090,273,415, 2009 - freepatentsonline.com, BULK ACOUSTIC RESONATOR ELECTRICAL IMPEDANCE TRANSFORMERS.
482. JD Larson III - US Patent 20,090,073,730, 2009 - freepatentsonline.com. AC-DC Power Converter, United States Patent Application 20090073730
483. Larson III, John D. "AC-DC Power Converter." U.S. Patent Application
484. ~~Fazzio, R.~~, Wade, C., Frank, M., & Feld, D. (2006). "Electronic device on substrate with cavity and mitigated parasitic leakage path." U.S. Patent Application 11/373,434.
485. R Fazzio, R Ruby, C Wade, M Frank... U.S. Patent No. 20,070,236,310. 11 Oct. 2007.- Electronic device on substrate with cavity and mitigated parasitic leakage path
486. JD Larson III, I Hardcastle - US Patent 20,070,086,080, 2007 - freepatentsonline.com. Acoustic galvanic isolator incorporating series-connected decoupled stacked bulk acoustic resonators
487. Larson, John, and Ian Hardcastle. "Acoustic galvanic isolator incorporating series-connected decoupled stacked bulk acoustic resonators." U.S. Patent Application 11/253,444.
488. M Unkrich - US Patent 7,746,677, 2010 - freepatentsonline.com. AC-DC converter circuit and power supply.
489. Unkrich, Mark. "AC-DC converter circuit and power supply." U.S. Patent No. 7,746,677. 29 Jun. 2010. U.S. Patent and Trademark Office
490. Martin, Steven, and Osvaldo Buccafusca. "TRANSCEIVER CIRCUIT FOR FILM BULK ACOUSTIC RESONATOR (FBAR) TRANSDUCERS." U.S. Patent No. 20,090,273,256. 5 Nov. 2009.
491. S Martin, O Buccafusca - US Patent App. 12/112,669, 2008 - Google Patents. Transceiver circuit for film bulk acoustic resonator (fbar) transducers.
492. H. Feng, RS Fazzio - US Patent App. 12/838,657, 2010 - Google Patents. Acoustic resonator performance enhancement using selective metal etch.
493. Feng, Hongjun, and Ronald S. Fazzio. "Acoustic resonator performance enhancement using selective metal etch." U.S. Patent Application 12/838,657.
494. M Fritz, M Handtmann, JF Liang... U.S. Patent Application 12/627,122.2009 - Google Patents. Duplexer with negative phase shifting circuit.
495. Fritz, M., Handtmann, M., Liang, J. F., & Gebauer, B."DUPLEXER WITH NEGATIVE PHASE SHIFTING CIRCUIT." U.S. Patent No. 20,110,128,092. 2 Jun. 2011.
496. T Jamneala - US Patent 20,090,086,654, 2009 - freepatentsonline.com. Single stack

- coupled resonators having differential output .
497. Jamneala, Tiberiu. "Single stack coupled resonators having differential output." U.S. Patent Application 11/863,720.
 498. Fazzio, Shane R., et al. "ELECTRONIC DEVICE ON SUBSTRATE WITH CAVITY AND MITIGATED PARASITIC LEAKAGE PATH." U.S. Patent No. 20,090,101,999. 23 Apr. 2009.
 499. RS Fazzio, RC Ruby, CP Wade, ML Frank... - U.S. Patent Application 12/341,122, 2008 - Google Patents. Electronic device on substrate with cavity and mitigated parasitic leakage path.
 500. Fazzio, R. S., & Ruby, R. C. (2012). *U.S. Patent No. 8,230,562*. Washington, DC: U.S. Patent and Trademark Office.
 501. RC Ruby - US Patent 20,130,049,888, 2013 - freepatentsonline.com; Acoustic resonator formed on a pedestal.
 502. Ruby, Richard C. "Acoustic resonator formed on a pedestal." U.S. Patent Application 13/216,633.
 503. J Choy, C Feng, P Nikkel - US Patent 20,100,327,994, 2010 - freepatentsonline.com. Acoustic resonator structure having an electrode with a
 504. ~~Cantilevered portion~~ Feng, and Phil Nikkel. "Acoustic resonator structure having an electrode with a cantilevered portion." U.S. Patent Application 12/626,035.
 505. SHIRAKAWA, A. A., Bradley, P., Burak, D., Bader, S., & Feng, C. (2011). *U.S. Patent Application 13/074,094.A* Shirakawa, D Burak, P Nikkel - US Patent 20,120,319,534, 2012 - freepatentsonline.com. Bulk acoustic resonator comprising non-piezoelectric layer and bridge.
 506. Shirakawa, Alexandre Augusto, et al. "STACKED BULK ACOUSTIC RESONATOR AND METHOD OF FABRICATING THE SAME." U.S. Patent No. 20,120,248,941. 4 Oct. 2012.
 507. Shirakawa, Alexandre, Dariusz Burak, and Phil Nikkel. "Bulk acoustic resonator comprising non-piezoelectric layer and bridge." U.S. Patent Application
 508. ~~Shirakawa~~ Alexandre, Dariusz Burak, and Phil Nikkel. "BULK ACOUSTIC RESONATOR COMPRISING NON-PIEZOELECTRIC LAYER AND BRIDGE." U.S. Patent No. 20,120,319,534. 20 Dec. 2012.
 509. TJ Whetten, WP Richling - US Patent 20,120,193,795, 2012 - freepatentsonline.com. Semiconductor device having an airbridge and method of fabricating the same.
 510. Whetten, Timothy J., and Wayne P. Richling. "Semiconductor device having an airbridge and method of fabricating the same." U.S. Patent Application 13/017,414.
 511. Jamneala, Tiberiu, and Richard Ruby. "Piezoelectric resonator structures and electrical filters having frame elements." U.S. Patent Application 11/713,726.
 512. T Jamneala, RC Ruby - US Patent 20,070,205,850, 2007 - freepatentsonline.com. Piezoelectric resonator structures and electrical filters having frame elements.
 513. Ruby, Richard C., John D. Larson, and Paul D. Bradley. "Manufacturing Process For Thin Film Bulk Acoustic Resonator (FBAR) Filters." U.S. Patent Application 11/748,970.
 514. RC Ruby, JD Larson... - US Patent 20,090,146,531, 2009 - freepatentsonline.com. Manufacturing Process For Thin Film Bulk Acoustic Resonator (FBAR) Filters
 515. D Burak, KJ Grannen, JD Larson III... - U.S. Patent Application 13/286,051.2011 - Google Patents. Bulk acoustic resonator comprising piezoelectric layer and inverse piezoelectric layer
 516. Burak, Dariusz, et al. "BULK ACOUSTIC RESONATOR COMPRISING

PIEZOELECTRIC LAYER AND INVERSE PIEZOELECTRIC LAYER." U.S. Patent No. 20,130,106,248. 2 May 2013.

Работата:

63. G. Mladenov, P. Petrov - Ermittlung der Prozezparameter zum Elektronenstrahlschweizen durch Computer, *Schwezen und Schneiden*, 45, 3, 1993, 145.

е цитирана в:

- 517. И.Кулагин. Экспрес-информация, №10,1994,5
- 518. Zhadkevich M.L., Kutsan Yu.G., Saprykina G.Yu., Aspects of comp.expert systems applications in development of EBW of low alloyed steels. Proc.of the 5-th Intern. Conf.on EBT, 1997, Varna, pp.126 -130
- 519. Пл.Запрянов, Дипломна работа : Разработване на технология за електронно-льчево рафиниране на мед, ТУ София-филиал Пловдив, Факултет МУ,катедра МТТ(2002)
- 520. Z.Zhiming, Z.Hui and al., Welding and Joining, No4, 2005, p.10-14
- 521. E.Koleva, Дисертация за присъждане на научно-образов.степен"доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-льчево заваряване", София, 2006г.(научна специалност 02.21.06-Автомат.на инженерния труд и системи за автоматизирано проектиране).
- 522. S. Böhm, The electron beam as a tool for joining technology, Study on the occasion of the DVS research seminar in Halle (Saale) on February 20, 2014, DVS Report Volume 299e
- 523. The TRDS and ITRD database, British Maritime Technology, <http://trid.trb.org/view.aspx?id=443112>
- 524. Prof. Dr.-Ing. S. Böhm, DVS-Forschungsseminar 2014 „Der Elektronenstrahl als Werkzeug für die Fügetechnik: Hochleistungsfügeverfahren mit Präzision und Effizienz für innovative, file:///C:/Users/germanos-pc/Downloads/DVS-Berichte_Band_299.pdf Anwendungen“

Работата:

64. P.Petrov, G.Mladenov - Theoretical analysis of heat flow and structural changes during electron beam irradiation of steel,*Vacuum*, V 42, N 1/2, 1991, pp 29-32.

е цитирана в:

- 525. K.Friedel, Electronika, n.8-9, 1993, 11.
- 526. M.Belawski, Electronika, n.8-9, 1993, 22.
- 527. Пл.Запрянов, Дипломна работа : Разработване на технология за електронно-льчево рафиниране на мед, ТУ София-филиал Пловдив, Факултет МУ,катедра МТТ(2002)
- 528. E.Koleva, Дисертация за присъждане на научно-образов.степен"доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-льчево заваряване",София, 2006г.(научна специалност 02.21.06-Автомат.на инженерния труд и системи за автоматизирано проектиране).
- 529. Dimitrov, D., et al., Surface hardening of alloy steels using a high intensity electron beam ,1998, Materials and Manufacturing Processes ,13 (4), pp. 555-564
- 530. Dimitrov, D., et al. (1998). Electron beam hardening of ion nitrided layers. *Vacuum*, 49(3), 239-246.

Работата:

- 65.** K.Vutova, G.Mladenov - **Absorbed Energy Distribution in Electron Lithography of simple patterns.** *Journal of Information Recording Materials*, 19 Appr. 1991, 373, Bulg.Jorn.of Phys N 1, 1991.

е цитирана в:

531. G.Grainder, Institute of Physics, Engineering LibraryInf.Center, University of Illinois at Urbana, [24]. P.11

Работата:

- 66.** K.Vutova, G.Mladenov -**Mathematical modelling of the development process in electron lithography.** *Journ. of Inform.Recording Materials*, 19 Appr. 1991, 283, Bulg. Journ. of Phys., N 2, 1991.

е цитирана в:

532. Й. Георгиев,Автореферат "Числено моделиране на проникването на ускорени електрони в тв.тяло и някои конкретни приложения" зо н.и о.с. д-р, София, 1996
 533. G. Grainder, Institute of Physics, Engineering LibraryInf.Center, University of Illinois at Urbana, [43]. P.11

Работата:

- 67.** K.Vutova, G.Mladenov - **Methodology for determining the radiation efficiency and contrast characteristic values in the case of electron and ion lithography using positive polymer resists,** *Thin Solid Films* ,V 200, Appr. 1991, 353.

е цитирана в:

534. R.Kaesmaier, H.Loeshner, G.Stengl, J.C.Wolfe, Ion projection Lithography: International Development Program, 43-thEIPBN'99 Conference, May 27-30, USA, 1999
 535. R.Kaesmaier, H.Loeshner, G.Stengl, J.C.Wolfe, Ion projection Lithography: International Development Program, Journ. Vac.Sci. and Technol. B, 17(6), 1999, 3091-3097
 536. R.Kaesmaier, H.Loeshner, Ion Projection Lithography: Progress in European MEDEA International Program, Invited paper, Micro and Nano Engineering Conference, Rome, Italy, Sept.21-23, 1999
 537. R. Kaesmaier, H. Loeshner, Ion Projection Lithography: Progress in European MEDEA International Program, Invited paper, Microelectronic Engineering, 53 (1-4), 2000, 37-451
 538. H. Loeshner, R. Kaesmaier, P.W.de Jager. IPL: Ion Projection Lithography-Wite paper, International SEMATECH, Nov.1999
 539. H. Loeshner, R. Kaesmaier, P.W.de Jager., Ion Projection lithography, Next Generation Lithography Workshop, Colorado Springs, USA, Dec.7-9,1999
 540. C.R. Szmarda, R.L. Brainard et al., Measuring acid generation efficiency in CARs with all three beams, J.Vac.Sci.Technol.,B, 17(6) 1999, 3356-3361
 541. R Kasmaier, Ph.D. dissertation, Ionen-Projections-Lithographie fur die Industrielle Herstellung von Schaltungen mit Strukturgrossen kleiner 100 nm, University of Kassel, Germany, May 2000
 542. G. Grainder, Institute of Physics, Engineering LibraryInf.Center, University of Illinois at Urbana, [37]. P.11

Работата:

- 68. G.Georgiev, V.Vasileva, T.Nicolov, N.Dimitrov and G.Mladenov - Refinement of Ti and Mo using electron beam melting,*Vacuum*, V 41, N 7-9, pp 2161-2164, 1990.**

е цитирана в:

543. Roh, K.-M., Suh, C.-Y., Oh, J.-M., Kim, W., Kwon, H., Lim, J.-W., Comparison of deoxidation capability for preparation of low oxygen content powder from TiNi alloy scraps, *Powder Technology*, Volume 253, February 2014, Pages 266-269
545. Lee, B. K., Oh, J. M., Choi, G. S., Rhee, K. I., Lee, S. W., Kim, S. B., & Lim, J. W. (2012).
546. Preparation of Ultra-High Purity Cylindrical Mo Ingot by Electron Beam Drip Melting. *Materials Transactions*, 53(2), 425-427.
547. Sasaki, H., Kobashi, Y., Nagai, T., & Maeda, M. Application of electron beam melting to the removal of phosphorus from silicon: Toward.
548. BK Lee, JM Oh, GS Choi, KI Rhee, SW Lee, SB Kim... - 2012 - researchgate.net, [PDF] Preparation of Ultra-High Purity Cylindrical Mo Ingot by Electron Beam Drip Melting.
549. You, X., Tan, Y., You, Q., (...), Ye, F., Wei, X., Preparation of Inconel 740 superalloy by electron beam smelting, 2016 , *Journal of Alloys and Compounds* 676, pp. 202-208
550. Tan, Y., You, X., You, Q., (...), Shi, S., Li, P., Microstructure and deformation behavior of nickel based superalloy Inconel 740 prepared by electron beam smelting, 2016, *Materials Characterization* , 114, pp. 267-276
551. You, Q., Shi, S., You, X., (...), Wang, Y., Li, J. Comparison of deoxidation capability for preparation of low oxygen content powder from TiNi alloy scraps, 2014, *Powder Technology* , 253, pp. 266-269
552. Park H.K., Ahn Y.K., Lee B.S., Jung K.H., Lee C.W., Kim H.G.REFINING EFFECT OF ELECTRON BEAM MELTING ON ADDITIVE MANUFACTURING OF PURE TITANIUM PRODUCTS, *Materials Letters*. 2017. Т. 187. С. 98-100.
553. EVAPORATION BEHAVIOR OF NI, CR AND FE IN INCONEL 718 SUPERALLOY DURING ELECTRON BEAM SMELTING, *You Q., Shi S., You X., Tan Y., Wang Y., Li J. Vacuum*. 2017. Т. 135. С. 135-141.
554. MICROSTRUCTURE AND DEFORMATION BEHAVIOR OF NICKEL BASED SUPERALLOY INCONEL 740 PREPARED BY ELECTRON BEAM SMELTING *Tan Y., You X., You Q., Li J., Shi S., Li P.* *Materials Characterization*. 2016. Т. 114. С. 267-276.
555. PREPARATION OF INCONEL 740 SUPERALLOY BY ELECTRON BEAM SMELTING *You X., Tan Y., You Q., Shi S., Li J., Ye F., Wei X.* *Journal of Alloys and Compounds*. 2016. Т. 676. С. 202-208.

Аvt.свидетелство:

- 69. В.Ласка, Г.Младенов, Н.Димитров, Т.Дяков и др. - Метод и устройство за получаване на високотемпературни свръхпроводящи покрития със сложен състав, Авторско свидетелство РБ рег. N 91033/27.09. 1990.**

е цитирано в:

556. List of selected publications and patents of the research groups involved in the

- Project.http://www.imel.demokritos.gr/web/NATO_973718/Proposal/list_of_selected_publications.htm
557. V.Vassileva, E. Georgieva, E. Koleva, Acceleration of electron beam evaporation, Electronics-98, Botevgrad, Publisher UEEB, (1998), 70-72.

Аvt.свидетелство:

71.В.Ласка, А.Гришанов, В.Лучинин, Г.Младенов, "Method fabrication of HTS thin films". Авт.свид.СССР, 77870616 (4787061)30.01.1990

е цитирано в:

558. List of selected publications and patents of the research groups involved in the Project. На сайте: http://www.imel.demokritos.gr/web/NATO_973718/Proposal/list_of_selected_publications.htm
559. V. Vassileva, E. Georgieva, E. Koleva, Acceleration of electron beam evaporation, Electronics-98, Botevgrad, Publisher UEEB, (1998), 70-72.

Работата:

81. Г.Младенов, П.Петров - Определение технологических параметров процесса электроннолучевой сварки, Материалы на 3 Межд. конф. по ЕЛТ, ЕЛТ-91, Варна, 1991, с 361.

е цитирана в:

560. K. Friedel, Spawanie electronow kierunki I granice rozwoju. Electronika 8-9, pp.11-21, 1993.

Работата:

82 Т.Дяков, П.Петров, Г.Младенов и др. - Экспериментальное исследование динамики сварочной ванны при электроннолучевой сварке, Материалы на 3 Межд. конф. по ЕЛТ, ЕЛТ-91, Варна, 1991, с 367.

е цитирана в:

561. M.Kardjiev, Proc. 4th Int. Conf. on EBT, Varna 1994, 123

Работата:

95. В.Орлинов, Г.Младенов, Д.Карпузов-Ионные технологии, Юб. сборник 20 лет Институту Электроники БАН, София, 1983, с 106.

е цитирана в:

562. Л.Спасов, Г.Камишева, М.Борисов за себе си и другите за него, Акад.Издателство М.Дринов, София, 2008.

Работата:

96. G.Mladenov, M.Braun and B.Emmoth -Ion irradiation induced modification of polymethyl methacrilate. Symposium on Surf. Sci. Obertraun . Austria,1983, 150.

е цитирана в:

563. F.Janouch, E.Oppenheimer AFI biennial report 1984 -1985, Res. Inst of Physics, Stockholm
564. автореферат диссертации по электронике, 05.27.01, диссертация тему: Прецизионная литография в твердотельной электронике и микроэлектронике

доктор технических наук Марголин, Владимир Игоревич, Город Санкт-Петербург, год, 1998

Работата:

34. Y. Georgiev, G.Mladenov, D. Ivanov-Monte Carlo Simulation of Electron Beam Exposure Distributions in the Resist on Structures with High Tc Superconducting Thin Films, *Thin Solid Films*, 251, 1994, 67.

е цитирана в:

- 565. K. Vutova, Modeling of Physical Processes during electron and ion beam treatment of materials. 2007, Dissertation for Doctor of Sciences, Institute of Electronics, Bulgarian Academy of Sciences, Sofia, Bulgaria
- 566. 電子束石版術中蒙地卡羅模擬程式之發展 郭雙發 – 2000
- 567. 電子束石版術蒙地卡羅模擬之研究 - 國家圖書館全國博碩士論文
ndltd.ncl.edu.tw/cgi-bin/gs32/.../login?o... -
- 568. 臺灣時間 : 2014/09/12 20:28 離開系統 ... A Monte Carlo simulation program for theelectron-beam lithography has been developed
- 569. Gueorguiev, M. Monte Carlo simulation of inclined incidence of fast electrons to solids, 1996, Journal of Vacuum Science and Technology B: Microelectronics and Nanometer Structures, 14 (4), pp. 2462-2466

Работата:

102. V.Vasileva,K.Vutova, L.Georgiev, T.Nikolov,G.Mladenov. The Electron Beam Melting Method for Fabrication of Oxigen-Free Copper, Proc. of Intern. Conf. on Electron Beam Melting and Refining, Reno, Nevada, USA, p.233, 1992.

е цитирана в:

- 570. Е.Колева, Дипл.работа"Комп.модел на ЕЛтопене и рафиниране "ХТМУ" ,София, катедра Автом.на п-вото, 1999
- 571. Пл.Запрянов, Дипломна работа : Разработване на технология за електроннолъчево рафиниране на мед, ТУ София-филиал Пловдив, Факултет МУ,катедра МТТ(2002)
- 572. Дипломната работа на Велико Динков Дончев, ф.н. 23960 на тема: „Оптимизация на процеса на електроннолъчево топене и рафиниране на метали“
- 573. Софийски Университет “Св. Климент Охридски”, Факултет по Математика и Информатика, Магистърска програма “Оптимизация”, направление “Приложна математика” 2013 г.
- 574. Non-stationary heat model for electron beam melting and refining - an economic and conservative numerical method. *Donchev V.*, Applied Mathematical Modelling. 2016. Т. 40. № 2. С. 1565-1575.

Работата:

103. S.Sabchevski, G.Mladenov et al.- Computer simulation of technological electron - optical systems, *Optik* 90, p 117-122, 199

е цитирана в:

- 575. St.Wojcicki,Analiza I projektowanie srednioperweacyjnych wyrzutni elektronowych duzej mocy z zastosowaniem statystycznych metod planowania

doswiadczen, Rozprawa doktorska,Instytucie Technologii Prozniowej w Warszawie,Politechnika Wroclawska, Inst.Technol. Elektronowej, Wroclaw, 1996

Работата:

104. S.Sabchevski, G.Mladenov, A.Titov, I.Barbarich- Proc. of abstracts of PC'92. Computers in Physics, Vol. 6, N 4, p 318, 1992

е цитирана в:

576. P.I.Begun etal, Proc. 4th Int.Conf. on EBT, Varna 1994, 80

Работата:

107. K.Vutova, G.Mladenov- Modelling of physical processes in ion lithography, Thin Solid Films ,214 (1992) 144-149.

е цитирана в:

- 577. R.Kaesmaier, H.Loeshner, G.Stengl, J.C.Wolfe, Ion projection Lithography: International Development Program, 43-thEIPBN'99 Conference, May 27-30, USA, 1999
- 578. R.Kaesmaier, H.Loeshner, G.Stengl, J.C.Wolfe, Ion projection Lithography: International Development Program, Journ. Vac.Sci. and Technol. B, 17(6), 1999, 3091-3097
- 579. R.Kaesmaier, H.Loeshner, Ion Projection Lithography: Progress in European MEDEA International Program, Invited paper, Micro and Nano Engineering Conference, Rome, Italy, Sept.21-23, 1999
- 580. R.Kaesmaier, H.Loeshner, Ion Projection Lithography: Progress in European MEDEA International Program, Invited paper, Microelectronic Engineering, 53 (1-4), 2000, pp.37-451
- 581. H.Loeshner, R.Kaesmaier, P.W.de Jager. IPL:Ion Projection Lithography-Wite paper, International SEMATECH, Nov.1999
- 582. H.Loeshner, R.Kaesmaier, P.W.de Jager., Ion Projection lithography, Next Generation Lithography Workshop, Colorado Springs, USA, Dec.7-9,1999
- 583. C.R.Szmanda, R.L.Brainard et al., Measuring acid generation efficiency in CARs with all three beams, J.Vac.Sci.Technol.,B, 17(6) 1999, 3356-3361
- 584. Mountfield, K., Eckert, A., Yang, X., Johns, E. , E-beam proximity effect parameters of sub-100nm features, 2014, Source of the Document Proceedings of SPIE - The International Society for Optical Engineering , 5376 (PART 2), pp. 959-966
- 585. Isoyan, A., Melvin III, L.S. Full-chip high resolution electron-beam lithography proximity effect correction modeling, 2010, Proceedings of SPIE - The International Society for Optical Engineering 7637, 76370X

Работата:

112. K.Vutova,G.Mladenov-Modeling of exposure and development processes in electron and ion lithography,Modelling Simul. Mater. Sci. Eng., 2, (1994) 239-254

е цитирана в:

586. Й. Георгиев, Автореферат "Числено моделиране на проникването на ускорени електрони в тв.тяло и някои конкретни приложения" зо н.и о.с. д-р, София,

- 1996
587. R.Kaesmaier, H.Loeshner, G.Stengl, J.C.Wolfe, Ion projection Lithography: International Development Program, 43-thEIPBN'99 Conference, May 27-30, USA, 1999
588. R.Kaesmaier, H.Loeshner, G.Stengl, J.C.Wolfe, Ion projection Lithography: International Development Program, Journ. Vac.Sci. and Technol. B, 17(6), 1999, 3091-3097
589. R.Kaesmaier, H.Loeshner, Ion Projection Lithography: Progress in European MEDEA International Program, Invited paper, Micro and Nano Engineering Conference, Rome, Italy, Sept.21-23, 1999
590. R.Kaesmaier, H.Loeshner, Ion Projection Lithography: Progress in European MEDEA International Program, Invited paper, Microelectronic Engineering, 53 (1-4), 2000,37-451
591. H.Loeshner, R.Kaesmaier, P.W.de Jager. IPL: Ion Projection Lithography-Wite paper, International SEMATECH, Nov.1999
592. H.Loeshner, R.Kaesmaier, P.W.de Jager., Ion Projection lithography, Next Generation Lithography Workshop, Colorado Springs, USA, Dec.7-9,1999
593. Mountfield, K., Eckert, A., Yang, X., Johns, E. E-beam proximity effect parameters of sub-100nm features (2004) Proceedings of SPIE - The International Society for Optical Engineering, 5376 (PART 2), pp. 959-966.
594. Isoyan, A., Melvin III, L.S., Full-chip high resolution electron-beam lithography proximity effect correction modeling (Conference Paper), Proceedings of SPIE - The International Society for Optical Engineering, Volume 7637, 2010, Article number 76370X
595. R Kasmaier, Ph.D. dissertation, Ionen-Projecttions-Lithographie fur die Industrielle Herstellung von Schaltungen mit Strukturgrossen kleiner 100 nm, University of Kassel, Germany, May 2000.
596. кит.фонт: Гуо, Електроннольчева литографска техника с програма за Монте Карло симулация, 2000 г. ir.lib.nctu.edu.tw
597. Szmandra, C.R., Brainard, R.L., Mackevich, J.F., (...),Nealey, P.M., Pawloski, A.R., Measuring acid generation efficiency in chemically amplified resists with all three beams, 1999, Journal of Vacuum Science and Technology B: Microelectronics and Nanometer Structures, 17 (6), pp. 3356-3361
598. A.Isoyan, L.Melvin III, „Modeling strategies for the incorporation and correction of proximity effects in high-resolution electron-beam lithography“, 53 International conference on electron, ion, and photon beam technology and nanofabrication, P-1F-13, Marco Island, Florida, 26-29 May, 2009.
599. M.Alexandrova, “Simulation of the 100-40 nm transistor gate formation process by EB lithography for 950K PMMA – Si substrate system”, Proc. International Conference on Modern Problems in Physics of Surfaces and Nanostructures, p.52, Yaroslavl, Russia, (2010)
600. <http://iopscience.iop.org/0965-0393/2/2/005> Authors of Document Durina, P.,

Работата:

114. S.P. Sabchevski, G.M. Mladenov, A.A. Titov, I.N. Barbarich, D.V. Vereshchagin - Models and Software for Computer Simulation of Technological Electron-Optical Systems, Proc.of4th Int. Conf. on Electron Beam Technol., EBT'94, Varna, p.40-48.

е цитирана в:

601. St.Wojcicki,Analiza I projektowanie srednioperweancyjnych wyrzutni elektronowych duzej mocy z zastosowaniem statystycznych metod planowania doswiadczen, Rozprawa doktorska,Instytucie Technologii Prozniowej w Warszawie,Politechnika Wroclawska, Inst.Technol. Elektronowej, Wroclaw, 1996
603. - St.Wojcicki, K.Friedel, Projektowanie wyrzutni elektronowych duzej mocy, Elektronika (XXXVI), 11,1985,32
604. Felba J. Wytwarzanie i pomiary wiazki electronowej o duzej gestosci mocy (Oficyna Wydawnicza Politechniki Wroclawskiej) 1996
605. И.С.Гайдукова, А.М.Филачев. Компют.моделирование и разработка термоэмиссионной системы установки электронно-лучевого гравирования. Прикладная физика, 3,1996, 45-55.
606. Тупик, В. А., Диссертация на соискания ученой степени д.т.н., Специальность: Материаловедение; Код специальности ВАК: 05.16.09; Санкт-Петербург,2011, Научная библиотека докторатов и авторефератов, <http://www.disscat.com/content/razrabortka-metodov-sinteza-i-obrabortki-nanorazmernykh-plenok#ixzz3HRBdMnLb>

Работата:

115. S.P. Sabchevski, G.M. Mladenov, J. Dabek- Computer Simulation of Electron-Optical Systems for Electron Beam Welding , *Proc. of 4th Int. Conf. on Electron Beam Technol., EBT'94*, Varna, p.49.

е цитирана в:

607. Marghitu S., Oproiu C., Martin D., Toma M., Marghitu O., Blagau A. Cross-over characteristics transformation in low energy EB channels, Proc. 5th Intern. Conf. EBT-97, Varna,.p.36-41
608. St.Wojcicki, Analiza I projektowanie srednioperweancyjnych wyrzutni elektronowych duzej mocy z zastosowaniem statystycznych metod planowania doswiadczen, Rozprawa doktorska,Instytucie Technologii Prozniowej w Warszawie,Politechnika Wroclawska, Inst.Technol. Elektronowej, Wroclaw, 1996
609. St.Wojcicki,Electron Beam Technology in Poland-State of the Art and Possibilities of Development, Proc. Of the Confer.on EB Melting and Refining-State of the Art, Reno, Nevada, Ed. R.Bakish, 1994, pp.237-241

Работата:

116. K.Vutova, G.Mladenov_- Evalation of Thermal Effected Zones During Electron Beam Treatment, *Proc. of 4th Int. Conf. on Electron Beam Technol.,EBT'94* Varna,p.101.the Dimentions of Weld and

е цитирана в:

610. D.Ivanov, Prognosticating the technology models at EB welding in Industrial practise, Electron Beam Technology and Applications, Proceedings of Indo-Bulgarian Workshop,19-21 Nov.2003; pp.322-328.
611. E.Koleva, Диссертация за присъждане на научно-образов.степен"доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-льчево заваряване", София,2006г. (научна специалност 02.21.06-

- Автомат.на инженерния труд и системи за автоматизирано проектиране).
612. Research status and development of causing mechanism of penetration-Review on EB welding, Welding and Joining, 2003, 8, pp.5-7, 16
 613. Wu Huijiang Feng, Ji-cai He Jingshan, "Electron beam welding of deep penetration in the mechanism of the Research and Development", Welding & Joining, 8,
 614. E. Vutova, "Statistical models at electron beam welding", Int. Journal IEEE – Annual School. Lectures., 25 (1), (2005), 11-16.
 615. 吴会强, 冯吉才, & 何景山. (2003). 电子束焊接深熔产生机理的研究现状与发展. 焊接, (8), 5-7.
 616. 卢庆华, 张玉凤, 霍立兴, & 张莉. (2003). 抗震梁柱节点失效行为评估方法. 焊接, (8), 12-16.

Работата

- 118. G.Mladenov, K.Vutova, I.Tsakov, S.Sabchevski - Coherent Electron Beams - a New Opportunity for Expansion of EB Applications, Proc. of 4th Int. Conf. on Electron Beam Technol., EBT'94, Varna, p.167.**

е цитирана в :

617. Е.Колева, Дипломна работа: "Компютърен модел на електроннолъчево топене и рафиниране", София, 1999, Химико-технологичен и Металургичен Университет (ХТМУ) - София, катедра "Автоматизация на производството", (1999).

Работата:

- 120. N. Dimitrov, V. Vasileva, T. Nikolov, G. Mladenov,- The behavior of Mn during Electron Beam Melting of Multidoped alloys, Proc. of 4th Int. Conf.on Electron Beam Technol., EBT'94, Varna,p.324.**

е цитирана в :

618. Пл.Запрянов, Дипломна работа : Разработване на технология за електроннолъчево рафиниране на мед, ТУ София-филиал Пловдив, Факултет МУ, катедра МТТ(2002)

Работата:

- 121. Y. Georgiev, G. Mladenov, D. Ivanov - Monte Carlo Simulation of Scattering of Fast Electrons Impinging at Arbitrary Angles to Solids, Proc.of 4th Int. Conf. on Electron Beam Technol., EBT'94, Varna,p.315.**

е цитирана в:

619. K. Vutova, Modeling of Physical Processes during electron and ion beam treatment of materials. 2007, Dissertation for Doctor of Sciences, Institute of Electronics, Bulgarian Academy of Sciences, Sofia, Bulgaria

Работата:

- 122. G. Mladenov - A new source for EB melting research and development, Proc.of the Conf.Electron Beam Melting and Refining - State of the Art 1993, p.95.**

е цитирана в:

620. Пл.Запрянов, Дипломна работа : Разработване на технология за електроннолъчево рафиниране на мед, ТУ София-филиал Пловдив, Факултет МУ, катедра

MTT(2002)

Работата:

- 123. G. Mladenov, K. Vutova, S. Sabchevsky - Computer Simulation of the Procesess at EB Technologies, Proc. of the Conf.Electron Beam Melting and Refining - State of the Art1994, pp.283-294.**

е цитирана в:

621. Е.Колева, Дипломна работа: “Компютърен модел на електроннольчево топене и рафиниране”, София, 1999, Химико-технологичен и Металургичен Университет (ХТМУ) - София, катедра “Автоматизация на производството”, (1999).
622. П.Запрянов, Дипломна работа: “Разработване на технология за електронно лъчево рафиниране на мед”, Технически Университет – София, филиал – Пловдив, Факултет: МУ, Катедра: МТТ, (2002).
623. Дипломната работа на Велико Динков Дончев, ф.н. 23960 на тема: „Оптимизация на процеса на електроннольчево топене и рафиниране на метали“ Софийски Университет “Св. Климент Охридски”, Факултет по Математика и Информатика, Магистърска програма “Оптимизация”, направление “Приложна математика” 2013 г.

Работата:

- 124. G Mladenov-Development of the EB Melting and Refining in the Eastern Europe,Proc.of the Conf.EB MELting and Refining State of the Art 1994,Reno,Nevada,p.231**

е цитирана в:

624. Paul R. Carri`ere, Preliminary Investigations into the Evaporation Process using a High Brightness Electron Beam Gun, Masters of Engineering, Department of Mining and Materials Engineering, McGill University, Montreal, Quebec 2013-12-14, <https://www.google.bg/webhp?sourceid=chrome-instant&ion=1&espv=2&ie=UTF-8#q=g.m.mladenov+electron&start=73>

Работата:

- 125. S.Sabchevsky, G. Mladenov - Computer simulation of electron beams, J.Phys.D: Appl.Phys.,27, 1994, pp.690-697.**

е цитирана в:

625. Felba J. Wytwarzanie i pomyary wiazki electronowej o duzej gestosci mocy (Oficyna Wydawnicza Politechniki Wroclawskiej) 1996
626. G.Martinez and R.Beckert, Numer.simul. of the pinching of partially neutral. relativistic el.beam, Phys.Rev.Spec.Topics- accelerators and beams, 3, 104201,
627. Gas focusing, Wikipedia, on line encyclopedia(http://en.wikipedia.org/wiki/Gas_focusing)
628. Jánský, P., Zlámal, J., Lencová, B., Zobač, M., Vlček, I., Radlicka, T.Numerical simulations of the thermionic electron gun for electron-beam welding and micromachining (2009) Vacuum, 84 (2), pp. 357-362.
629. M.Muecke, Univ.Frankfurt am Main- Deposit. De Untersuchung der Selbstkompression eines Elektronstrahls zur Erzeugung hoch gelander Ionen in einer Elektronstrahlionenquelle, Dissertation zur Erlang und des Dokforgrades der Naturwissenschaften

630. Iqbal, M., Ul Islam, G., Saleem, S., Herrmannsfeldt, W.B., Optimization of the hairpin-source electron gun using EGUN, 2014, Vacuum, 101, pp. 157-162

Работата:

126. K.Vutova, G. Mladenov. Modeling of exposure and development processes in electron and ion lithography, *Modeling Simul. Mater.Sci.Eng.*, 2, 1994, pp.239-254.

е цитирана в:

631. R.Kaesmaier, Ph.D. dissertation, Ionen-Projecttions-Lithographie fur die Industrielle Herstellung von Schaltungen mit Strukturgrossen kleiner 100 nm, University of Kassel, Germany, May 2000.
632. Isoyan, A. , Melvin III, L.S., Full-chip high resolution electron-beam lithography proximity effect correction modeling (Conference Paper), Proceedings of SPIE ,Volume 7637, 2010, p.10
633. K.Mountfield, A.Ekert, X.M.Yang, E.Johns, E-beam proximity effect parameters of sub-100 nm features. Advances in resisttechnology and processing, XXI, Pts1 and 2, 5376, pp.957-966; 2004, SPIE Proceedings, Feb.23-24, 2004, Santa Clara CA, USA
634. R.Kaesmaier, H.Loschner, G.Stengl, J.C.Wolfe, P.Ruchhoeft, Ion projection lithography: International development program,J.ofVac.Sci.Technol., B, 17,6, pp.3091-3097, 1999
635. R.Kaesmaier, H.Loschner, Progress in European MEDEA & International Program on Ion ProjectionLithography, Microelectron. Engineering, 53, 1-4, pp.37-45, 2000
636. Durina, P., Bencurova, A., Konecnikova, A., Kus, P., Plecenik, A. Patterning of structures by e-beam lithography and ion etching for gas sensor applications, 2014, Journal of Physics: Conference Series 514 (1), 012037
637. L.S.Melvin, Full chip high resolution electron beam lithography and correction modelling, Alternative Lithography Technologies II, San Jose, CA, USA, Feb.23-25, 2010, DOI 10.1117/12.846681
638. G.Grainger, Institute of Physics, Engineering LibraryInf.Center, University of Illinois at Urbana, [33]. P.11
639. Szmandra, C.R., Brainard, R.L., Mackevich, J.F., (...), Nealey, P.M., Pawloski, A.R., Measuring acid generation efficiency in chemically amplified resists with all three beams, 1999, Journal of Vacuum Science and Technology B: Microelectronics and Nanometer Structures, 17 (6), pp3356-3361
640. Mountfield, K. R., Eckert, A. R., Yang, X., & Johns, E. C. (2004, May). E-beam proximity effect parameters for sub-100-nm features. In *Microlithography 2004* (pp. 959-966). International Society for Optics and Photonics.
641. Isoyan A., Melvin III L. S. Modeling strategies for the incorporation and correction of proximity effects in high-resolution electron-beam lithography //J. Vac. Sci. Technol. B, submitted. – 2009.
642. Isoyan A., Melvin III L. S. Full-chip high resolution electron-beam lithography proximity effect correction modeling // Advanced Lithography. – International Society for Optics and Photonics, 2010. – C. 76370X-76370X-9.

Работата:

127. Y. Gueorguiev, K. Vutova, G. Mladenov - A Monte Carlo Study of Proximity Effects in Electron-Beam Patterning of High-Tc Superconducting Thin Films, *Physica C*,249,1995,p.189.

е цитирана в:

643. I.Raptis, G.Meneghini, A.Rosenbusch, N.Glezos, R.Palumbo, M.Ardito, L.Scopa, G.Patsis, E.Valamontes and P.Argitis, EB lithography on multilayer substrates-experimental and theoretical study, Proc. of SPIE(SPIE Conf.on Micro-lithography, Feb.1998) 3331,1998,431-434
644. I.Raptis, B.Nowotny, N.Glezos et al., EB lithography simulation of homogeneous and multilayer substrates, Jap.J.of Appl.Phys., PartI-regular papers short notes&review papers 39(2a),Feb. 2000, pp.635-644
645. P.Kirsch, M.B.Assouar, O.Elmazria, C.Tiusan, P.Alnot, High frequency SAW Devices on 36 degrees YX LiTaO₃ substrates realized using electron beam lithography, 15th IEEE International symposium on application of ferroelectricspp.272-275, 2007
646. P.Kirsch, M.B.Assouar, O.Elmazria, C.Tiusan, P.Alnot, 5 GHz SAW devices based on AlN/diamond layered structure, 2006 IEEE Ultrasonics symposium, vol.1-5, Proceedings: 2006, pp.2293-2296, Vancouver, Canada, oct.3-06, 2006.
647. P.Kirsch, M.B.Assouar, O.Elmazria, M. El Hakiki , V.Mortet, P.Alnot, Combination of e-beam lithography and of high velocity AlN/diamond-layered structure for SAW filters in X band, IEEE Transactions on ultrasonics ferroelectrics and frequency control, 54(7), 2007, pp.1486-1491.
648. Simulation of Electron Beam Exposure and Resist Processing for Nano-Patterning. Ioannis Raptis and George P. Patsis, in NANOFABRICATION - Techniques and Principles, Maria Stepanova and Steven K. Dew, editors, 2012, Part 2, 43-91, DOI: 10.1007/978-3-7091-0424-8-3.
649. New parametric point spread function calibration methodology for improving the accuracy of patterning prediction in electron-beam lithography. CH Liu, HT Ng, KY Tsai, Journal of Micro/Nanolithography, MEMS, and MOEMS 11, no. 1 (2012): 013009-1. doi:10.1117/1.JMM.11.1.013009.
650. P.A.Crozier, Proximity effect in nanoscale patterning with high resolution EB-induced deposition, Journ.Vac.Sci.Technol., B, Microelectronic and Nanometer structures, 26,1, pp.249-254, 2008.
651. Chun-Hung Liu, Hoi-Tou Ng, Kuen-Yu Tsai, New parametric point spread function calibration methodology for improving the accuracy of patterning prediction in electron beam lithography, Journal of Micro/Nano lithography, MEMS Aand MOEMS, 11013009, Mar.13, 2012
652. I.Raptis, G.Patsis, Simulation of EB exposure and resist processing for nano-patterning. Nanofabrication 2012, Springer, Vien, pp.154-160
653. H.Yi, J.Chang. Proximity effect correction in electron beam lithography on metal multi-layers, Journal of materials science 42, 13, 2007, 5159-5164 DOI 10.1007/s10853-006-1288-0
654. - C.R.Szmunda, R.L.Brainard et al., Measuring acid generation efficiency in CARs with all three beams, J.Vac.Sci.Technol.,B, 17(6) 1999, 3356-3361
655. K.Murata, T.Matsukawa, R.Shimitzu, Monte Carlo Simulation on Electron Scattering in a Solid Target, Jpn.Journal of Appl.Physics, 10, 2001, pp.678-686
656. 14.P Kirsch, MB Assouar, O Elmazria - Symposium P3O-1 5GHz SAW Devices

- Based on AlN/Diamond Layered Structure2006 - ieeexplore.ieee.org
657. Kirsch P. et al. High frequency SAW Devices on 36° YX LiTaO₃ substrates realized using electron beam lithography //Applications of ferroelectrics, 2006. isaf06. 15th ieee international symposium on the. – IEEE, 2006. – C. 269-272.
658. Raptis, I., Meneghini, G., Rosenbusch, A., (...), Valamontes, E., Argitis, P. Electron beam lithography on multilayer substrates: Experimental and theoretical study , 1998, Proceedings of SPIE - The International Society for Optical Engineering,Raptis, Bernhard Nowotny, Massimo Gentili, Giancarlo Meneghini Electron Beam Lithography Simulation on Homogeneous and Multilayer Substrates, Japanese Journal of Applied Physics (Impact Factor: 1.07). 01/2000; 39:635-644. DOI: 10.1143/JJAP.39.635
660. Charbel Nassour, "The study of the application of micro-display in massively parallel direct-writephotoplotting of submicronic structures", PhD thesis, depart. Optics/Photonic, Telecom Bretagne, Universite de Bretagne-Sud, France, tel-00719635, (2012).
661. S.Mitra, High-Tc Update, Vol. 9, No. 11, (1995), pp.1-27
662. 20. Raptis, I., Patsis, G.P., Simulation of electron beam exposure and resist processing for nano-patterning (Book Chapter), 2014, *Nanofabrication: Techniques and Principles*,pp. 43-91
663. Liu, Chun-Hung, Hoi-Tou Ng, and Kuen-Yu Tsai. "New parametric point spread function calibration methodology for improving the accuracy of patterning prediction in electron-beam lithography." *Journal of Micro/Nanolithography, MEMS, and MOEMS* 11.1 (2012): 013009-1.

Работата:

128. Y. Guerguiev, K. Vutova, G. Mladenov -Analysis of the proximity function in electron-beam lithography on high-T_c superconducting thin-films, *Supercond. Sci. Technol.* 9, 1996, pp.565-569.

е цитирана в:

664. H.Yi, J.Chang, Proximity effect correction in electron beam lithography on metal multi-layers, *Journ. of Mater. Sci*, 42, (13), 2007, pp.5159-5164
665. Chun-Hung Liu, Hoi-Tou Ng, Kuen-Yu Tsai, New parametric point spread function calibration methodology for improving the accuracy of patterning prediction in electron beam lithography, *Journal of Micro/Nano lithography, MEMS Aand MOEMS*, 11013009, Mar.13, 2012
666. F.Feri, Thesis of Doctorato “Fabrication and characterization of micro/nanometer meshes for X-ray microscopy” Department of Physics, Faculty of Mathematical, Physical and natural sciences, University of Trieste, Ano Academico 2003/2004 <http://tasc.iom.cnr.it/research/amd/theses/Feri.pdf>

Работата:

129a. Y. Gueorguiev, G. Mladenov, D. Ivanov - Monte Carlo Simulation of Inclined Incidence of Fast Electrons to Solids. *J. Vac. Sci. Technol. B* 14, 1996, p.2462.

е цитирана в:

667. D.Berger, Hochauflgeloste Elektronenstreuxperimente fur Anwendungen in der Elektronenmikroskopie und der Monte Carlo Simulation der Elektronenstreuung. Vom Fachbereich 4(Physik) der Technischen Universität Berlin zur Verleihung des akademischen Grades Doktor der ingenieurwissenschaften genehmigte Dissertation, Berlin, 2000 D83

Работата:

130а. G. Mladenov, V. Vasileva, K. Vutova, T. Nikolov- Investigations of Refining Processes at Electron Beam Melting. Vacuum 47, 1996, pp.825-828 .

е цитирана в:

668. Е.Колева, Дипл.работа"Комп.модел на ЕЛтопене и рафиниране "ХТМУ" ,София, катедра Автом.на п-вото,1999
669. E.R.G.Eckert, R.J.Goldstein, et al., Heat transfer-a review of 1996 literature, Int.J.of heat and mass transfer 43(8) 2000, 1273-1371
670. E. Koleva, Statistical analysis of EB melting and refining - State of the arts, 29-31 Oct.2000, Reno, Nevada, USA,pp.174 -187.
671. Пл.Запрянов, Дипломна работа : Разработване на технология за електроннолъчево рафиниране на мед, ТУ София-филиал Пловдив, Факултет МУ,катедра МТТ(2002)
672. E.Koleva, The role of EB melting parameters on the geometry of the melting pool of Cu, Electron Beam Technology and Applications, Proceedings of Indo-Bulgarian Workshop,19-21 Nov.2003; pp.70-75.
673. Chen, J., Fu, Y., Liu, N., Lu, Y., Li, T., Production of 5N copper by directional solidification and electron beam refining, Zhenkong Kexue yu Jishu Xuebao/Journal of Vacuum Science and Technology, Volume 31, Issue 4, August 2011, Pages 495-499
674. Дипломната работа на Велико Динков Дончев, ф.н. 23960 на тема: „Оптимизация на процеса на електроннолъчево топене и рафиниране на метали“ Софийски Университет „Св. Климент Охридски“, Факултет по Математика и Информатика, Магистърска програма „Оптимизация“, направление „Приложна математика“ 2013 г.
675. Liu, W., Liu, S., Long, L., Ma, Y., Liu, Y., Simulation of temperature field during electron beam melting tungsten based on finite element method, 2014, Xiyou Jinshu/Chinese Journal of Rare Metals, 38 (4), pp. 666-673
676. T.Krussel, “Zentrifugalprojektionsbeschichtung - iCPC - mittels Elektronenstrahl”, Dissertation, Universitat, Hannover, Germany, (2005)
677. 陈洁, et al. "定向凝固结合电子束制备高纯铜的研究." 真空科学与技术学报 31.4 (2011): 495-499.
678. 刘文胜, et al. "基于有限元法对电子束熔炼提纯钨过程的温度场模拟." 稀有金属 38.4 (2014).
679. 陳雅齡. "平面顯示器電路層用鋁銠系列合金濺鍍靶材之顯微結構分析及其薄膜特性研究." (2005).

Работата:

131. Y. Gueorguiev, D. Ivanov, G. Mladenov - A Program for Monte Carlo Simulation of Penetration and Scattering of Accelerated Electrons in Multicomponent Multilayer Targets. Vacuum, 47, 1996, p. 1227.

е цитирана в:

680. W.J.Thomes, C.H.Seager, P.H.Holloway, Reduction of intens.from coating of cathodolumin.phospors MgO or Al₂O₃ on Y₂O₃: EU or Y₂SiO₅:Tb, J.Appl.Phys,

- 91(12) 2002, 9657 -9662.
681. Son M.S., Rhee J.K., Lee J.H., Hwang H.J., Monte Carlo EB lithography simulation of sub- 0,1 μm T-gate process for millimeter wave HEMTs considering 50-kV and 100 kV beam exposure systems, Journal of Korean Physical Society, v.45,2, Aug.2004, pp.540-549.
 682. T.Sisconen, R.Pollanen, Advanced simulation code for alpha spectrometry, arXiv:ex/ 0505005, 6 May 2005, pp 1-21.
 683. T.Sisconen, R.Pollanen, Advanced simulation code for alpha spectrometry, Nuclear Instr. And Methods in Phys. Research, Section A-Accelerators spectrometers detectors and assoc. equipment, 550(1-2), 2005, pp.425-434.
 684. M.J.Toohey, Electrodes for nanodot-based gas sensors, Sensors and actuators B-Chemical, 105(2), 2005, pp.232-250.
 685. P.W.Wang, K.R.Kimberlin, W.Chengyu, T.Ying, G.Q.Lin, W.Amin, X.J.Jun, Surface cracking of soda lime glass under pulsed high current electron irradiation, Materials Chemistry & Physics, v.94, 2-3, 15 Dec. 2005, pp.252-256.
 686. China font, Electrodes for nanodot-based gas sensor, 22-01-2011, Wenku baidy.com d9681d28647d27284b7451e6.html.
 687. China font, Suites, Nikaru; превод от японски: Електроннольчева литография и техниката на Монте Карло, Електронни и комуникационни инженери, 2000-ir.lib.nctu.edu.tw
 688. T.Sisconen, R.Pollanen, Advanced simulation code for alpha spectrometry, Nucl.Instr.and Methods in Phys.Res. A, Accelerators, Spectrometers, Detectors and Associated Equipment, 550, 1-2, 2005, pp.425-434
 689. William Joseph Thomes, Jr. , measurement and modeling of the effects of pulsed laser deposited coatings on cathodoluminescent phosphors, dissertation presented to the graduate school of the University of Florida in partial fulfillment of the requirements for the degree of doctor of philosophy, University of Florida, 2000
 690. Abrams, Billie Lynn. *Temperature and vacuum ambient effects on the cathodoluminescent degradation of sulfide-based thin film and powder phosphors.* Diss. University of Florida, 2001.
 691. Unioation Engineers, Co. "50kv 喫 100 kv 石ズト碧 司塙 ュ 911 sil} 二看 入 1 ム 望 {} 01 暑を望司口 1E1 叫 HEMT 塙 叫 91 sub- o. 1 μm 冒'3 吾 司ス 1 ム 三." 손명식. "다층 리지스트 및 화합물 반도체 기판 구조에서의 전자 빔 리소그래피 공정을 위한 몬테 카를로 시뮬레이션 모델 개발." *한국진공학회지* 12.3 (2003): 182-192.
 692. 郭雙發. "電子束石版術中蒙地卡羅模擬程式之發展." (2000).

Работата:

132. К.Вутова, Й.М.Георгиев и Г.М.Младенов - Числено моделиране на процесите при електронна литография. Разпределение на погълнатата енергия. Електротехника и електроника, № 3/4, 1996, 16-20.

е цитирана в:

693. К.В.Каменова, Дипломна работа : D-оптимално планиране, статистически анализ и оптимизация при електронно-льчева литография, ХМТУ-София, Катедра Автоматизация на производството, (2003)
694. В.Р.Илиев, Дипломна работа : Подобряване на качеството на процеса електронно-льчева литография по метода на Тагучи, ХМТУ-София, Катедра

Автоматизация на производството, (2003)

Работата:

- 134. J. Gueorguiev, G. Mladenov , D. Ivanov - Monte Carlo Simulation of 25 - 75 keV Electron Energy Loss Distributions in PMMA on Top of High-Tc Super-conducting Thin Films, *Proceedings of the 8th International School "Vacuum, Electron and Ion Technologies"*, September 26 - October 1, 1993, Varna, Bulgaria, ed. D.S.Karpuzov (Nova Science Publishers, USA, 1996) p. 405.**

е цитирана в:

695. Ki Su Yu, Electron beam proximity effect in patterning of X-ray masks bu a resist multilevel process(2) . Sae-Milli (The Korean Physical Society), v.37, No2, 1997, pp.234-244

Работата:

- 136. K.Vutova,V.Vassileva, G.Mladenov- Simulation of the Heat Transfer Process Through Treated Metal Melted in a Water-Cooled Crucible by Electron Beam,*Vacuum*, v.48, No 2, 1997, p.143-148.**

е цитирана в:

696. Е.Колева, Дипл.работа"Комп.модел на ЕЛтопене и рафиниране "ХТМУ" ,София, катедра Автом.на п-вото,1999
 697. E.R.G.Eckert, R.J.Goldstein, et al., Heat transfer-a review of 1997 literature, Int.J.of heat and mass transfer 43(14) July2000, 2431-2528
 698. E. Koleva, Statistical analysis of EB melting and refining - State of the arts, 29-31 Oct.2000, Reno, Nevada, USA,pp.174 -187.
 699. Пл.Запрянов, Дипломна работа : Разработване на технология за електронно-льчево рафиниране на мед, ТУ София-филиал Пловдив, Факултет МУ,катедра МТТ(2002)
 700. E.Koleva, The role of EB melting parameters on the geometry of the melting pool of Cu, Electron Beam Technology and Applications, Proceedings of Indo-Bulgarian Workshop,19-21 Nov.2003; pp.70-75.
 701. Bo, Y., Wang, D., Ying, C. Numerical analysis of ternary alloy molten pool heated by electron gun(2003) Qinghua Daxue Xuebao/Journal of Tsinghua University, 43 (10), pp. 1355-1358.
 702. Donchev, V., Electron beam melting and refining of metals: Computational modeling and optimization, Materials, Volume 6, Issue 10, 2013, Pages 4626-4640
 703. Mazurkiewicz, A., Smolik, J. , Zbrowski, A., Kacprzyńska, J., Innovative technical solutions for evaporation of multilayer coatings by EB-PVD method, Archives of Civil and Mechanical Engineering, Volume 14, Issue 2, February 2014, Pages 250-254
 704. Donchev, V., Optimization method for electron beam melting and refining of metals(2014) Journal of Physics: Conference Series, 490 (1), 012211.
 705. Mazurkiewicz, A., Smolik, J., Piasek, A., & Samborski, T. (2012). Projekt modułowego tygla wielopozycyjnego przeznaczonego do odparowywania materiałów metodą EB-PVD. Problemy Eksploatacji, (3), 223-234.
 706. China font. A system for measuring transverse beam of electron gun, Nucleat techniques, 2004, v.27, 4, pp.259-263

707. Дипломната работа на Велико Динков Дончев, ф.н. 23960 на тема: „Оптимизация на процеса на електроннолъчево топене и рафиниране на метали“ Софийски Университет “Св. Климент Охридски”, Факултет по Математика и Информатика, Магистърска програма “Оптимизация”, направление “Приложна математика” 2013 г.
708. Liu, W., Liu, S., Long, L., Ma, Y., Liu, Y., Simulation of temperature field during electron beam melting tungsten based on finite element method, 2014, Xiyou Jinshu/Chinese Journal of Rare Metals, 38 (4), pp. 666-673
709. Thin Yong, “Numerical analysis of ternary alloy molten pool heated by electron gun”, Journal of Tsinghua, University 43 (10), (2003), pp.1336-1338.
710. Mazurkiewicz, A., Smolik, J., Zbrowski, A., & Kacprzyńska, J.“Innovative technical solutions for evaporation of multilayer coatings by EB-PVD method.” Archives of Civil and Mechanical Engineering, 2014, 14(2), c. 250-254
711. 王德武, 应纯同, & 薄勇. (2003). 电子枪加热三元合金熔池的数值分析. 清华大学学报·自然科学版, 43(10), 1355-1358.
712. 刘文胜, 刘书华, 龙路平, 马运柱, & 刘业. (2014). 基于有限元法对电子束熔炼提纯钨过程的温度场模拟. 稀有金属, 38(4).
713. Non-stationary heat model for electron beam melting and refining - an economic and conservative numerical method, Donchev V., Applied Mathematical Modelling. 2016. Т. 40. № 2. С. 1565-1575.
714. Non-stationary heat model for electron beam melting and refining - an economic and conservative numerical method, Donchev V., Applied Mathematical Modelling. 2016. Т. 40. № 2. С. 1565-1575.
715. Investigation of tantalum recycling by electron beam melting. Munirathnam N., Amalnerkar D.P., Tanaka T., Metals. 2016. Т. 6. № 11. С. 287.

Работата:

137. К.Вутова, Г.Младенов, В.Василева - Компютърно симулиране на топлинните процеси при електроннолъчево топене и рафиниране на мед. *Материали на Национална конференция с международно участие "ЕЛЕКТРОНИКА '96"*, Ботевград, издание на Съюза по електроника, електротехника и съобщения, 1996, с.173-177.

е цитирана в:

716. Е.Колева, Дипл.работка "Комп.модел на ЕЛтопене и рафиниране "ХТМУ" ,София, катедра Автом.на п-вото,1999
717. Пл.Запрянов, Дипломна работа : Разработване на технология за електроннолъчево рафиниране на мед, ТУ София-филиал Пловдив, Факултет МУ,катедра МТТ(2002)

Работата:

138. В.Василева, К.Вутова, Т.Николов, П.Влаев, Г.Буков, Г.Младенов - Електроннолъчево топене, рафиниране и регенериране на чисти метали и сплави за електроноката. *Материали на Национална конференция с междунар.участие "ЕЛЕКТРОНИКА '96"*, Ботевград, изд. на Съюза по електроника, електротехника и съобщения, 1996, с.167-172.

е цитирана в:

718. Пл.Запрянов, Дипломна работа : Разработване на технология за електроннолъчево рафиниране на мед, ТУ София-филиал Пловдив, Факултет МУ, катедра МТТ(2002)
719. Е.Колева, Дипломна работа: "Компютърен модел на електроннолъчево топене и рафиниране", София, 1999, Химико-технологичен и Металургичен Университет (ХТМУ) - София, катедра, "Автоматизация на производството", (1999).

Работата:

139. G. Mladenov, S. Wojcicki, K. Vutova, S. Sabchevski - Electron Beam Welding Thermal Efficiency, *Материали на Национална конференция с международно участие "ЕЛЕКТРОНИКА '96"*, Ботевград, издание на Съюза по електроника, електротехника и съобщения, 1996, стр. 184-188.

е цитирана в:

720. D.Ivanov, Prognosticating the technology models at EB welding in Industrial practise, Electron Beam Technology and Applications, Proceedings of Indo-Bulgarian Workshop, 19-21 Nov.2003; pp.322-328.
721. C.A.Huang, T.H.Wang, C.H.Lee, W.C.Han, A study of the galvanic corrosion behavior of Inconel 718 after EBW, Proceedings Electrochemical Society PV 2004-14,2005 pp.299-310.

Работата:

146. S.P.Sabchevski,G.M.Mladenov,SWojcicki, and J.Dabek - An analysis of electron guns for welding.J.Phys.D:Appl.Phys.,29, 1996,p.1446-1453.

е цитирана в:

722. E.Koleva, The role of EB melting parameters on the geometry of the melting pool of Cu, Electron Beam Technology and Applications, Proceedings of Indo-Bulgarian Workshop, 19-21 Nov.2003; pp.70-75.
723. P.Jansky, J.Zlamal, B.Lenkova, M.Zobach, I.Vlcek, T.Radlicka, Numerical simulations of the thermionic electron gun for electron beam welding and micromachining, Vacuum, 84(2), 2009, pp.357-362
724. E.Koleva, Дисертация за присъждане на научно-образов.степен"доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-лъчево заваряване", София, 2006г.(научна специалност 02.21.06-Автомат.на инженерния труд и системи за автоматизирано проектиране).
725. Iqbal, M., Ul Islam, G., Saleem, S., Herrmannsfeldt, W.B., Optimization of the hairpin-source electron gun using EGUN, Vacuum, Volume 101, 2014, Pages 157-162
726. Корнилов, Сергей Юрьевич- диссертация за получаване на н.степен к.т.н. на тема: „Формирование и фокусировка интенсивных электронных пучков в электронно-оптической системе с плазменным эмиттером“, Томск, Код специальности 01.04.04, Физическая электроника, 2010
727. P. Petrov, Parameters used for electron beam welding – A comparative study, 8th International Conferenceon Beam Technology, Halle, 2011
728. Prof. Dr.-Ing. S. Böhm, DVS-Forschungsseminar 2014 „Der Elektronenstrahl als Werkzeug für die Fügetechnik: Hochleistungsfügeverfahren mit Präzision und Effizienz für innovative, DVS-Berichte_Band_299.pdf , Anwendungen“
729. Islam, G.U., Rehman, A., Iqbal, M., Zhou, Z., Simulation and test of a thermioic

- hairpin source DC electron beam gun ,2016 ,Optik ,127 (4), pp. 1905-1908
730. Islam, G., Iqbal, M., Rehman, A., Zhou, Z., Simulation and test of a point focused electron beam emitter 2017, Instruments and Experimental Techniques, 60 (1), pp. 87-90

Работата:

147. S.Sabchevski,G.Mladenov,A.Titov,I.Barbarich. Modelling of Beam Formation in Electron guns.*Nuclear Instr. and Methods in Phys. Research, Ser.A*, 389, 1996, p.185-193

е цитирана в:

731. Idehara, T., Ogawa, I., Glyavin, M., Mitsudo, S., Ohashi, K., Kobayashi, H. Computer simulation of axis-encircling beams generated by an electron gun with a permanent magnet system (2000) International Journal of Infrared and Millimeter Waves, 21 (8), pp. 1191-1209.
732. Idehara, T., Glyavin, M., Mitsudo, S., Ogawa, I., Ohashi, K., Kobayashi, H. Computer simulation of axis-encircling beams generated by electron gun with permanent magnet system(2000) 13th International Conference on High-Power Particle Beams, BEAMS 2000, art. no. 6220011, pp. 889-892.
733. Idehara, T., Glyavin, M., Mitsudo, S., Ogawa, I., Ohashi, K., Kobayashi, H. Design of a large orbit gyrotron with a permanent magnet system (2001) Vacuum, 62 (2-3), pp. 133-142.
734. Iqbal, M., Masood, K., Rafiq, M., Chaudhary, M.A., Fazal-e-Aleem. An electromagnetically focused electron beam line source(2003) Review of Scientific Instruments, 74 (11), pp. 4616-4619.
735. Boesten, K.Okada, 2000, Hairpin filament electron guns for low energy use, Measurement Science and Technol., 11(5) 576-583
736. K.Masood, M.Iqbal, M.Zakaullah, Emission characteristics of the termionic electron beam sources developed at EBSDL, Nucl.Instr.and Methoas in Phys. Res. section A-Accelerators, spectrometers detectors and assoc. equipment, 584(1), 2008, pp.9-14.DOI 10:10.1016/j.nima.2007.09.049
737. K.Masood, S.A.Bhatti, M.Rafiq, Magnetically confined high power termionic line source emitter assembly, Vacuum, 77(2), 2005, 101-110.
738. O. Doyen, Modélisation et caractérisation du faisceau d'électrons dans les canons de tubes cathodiques de téléviseurs, These pour obtenir le grade de DOCTEUR DE L'UNIVERSITE JOSEPH FOURIER, Spécialité: *Physique*. (2007). Available online at: http://hal.archives-ouvertes.fr/docs/00/14/72/66/PDF/These_document_final.pdf
739. E.Koleva, Дисертация за присъждане на научно-образов.степен"доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-льчево заваряване, София, 2006 г.(научна специалност 02.21.06-Автомат.на инженерния труд и системи за автоматизирано проектиране).
740. Wei, Y.-X. , Huang, M.-G., Liu, S.-Q., Liu, J.-Y., Hao, B.-L., Du, C.-H., Liu, P.-K., Automated pinhole-aperture diagnostic for the current profiling of TWT electron beams, Measurement Science and Technology, Volume 24, Issue 2, February 2013, Article number 025901
741. Koohsorkhi, J.A , Mohajerzadeh, S., Carbon nanotube based miniaturized electron gun and column assembly, Microsystem Technologies, Volume 20, Issue 2, February 2014, Pages 325-336
742. A. A. El-Saftawy, A. Elfalaky, M. S. Ragheb, S. G. Zakhary, Numerical Simulation

- of Beam Formation and Transport in an Electron Gun for Different Applications, Journal of Nuclear and Particle Physics, 2012; 2(5): 126-131 doi: 10.5923/j.jnpp.20120205.04
743. Ashraf A. El-Saftawy , Ahmed Elfalaky , Magdi S. Ragheb , Safwat G. Zakhary A Pierce-type electron gun with spherical anode , Accelerators and Ion Sources Department, Nuclear Research Center, Atomic Energy, Egypt
744. Catalogo Articoli (Spogli Riviste), <http://serials.unibo.it/cgi-ser/start/it/spogli/dss.tcl?authors=%22+Mladenov%2C+G%22&language=ITALIANO>
745. Козынченко, Сергей Александрович, Численное моделирование и комплекс программ оптимизации систем формирования низкоэнергетических пучков заряженных частиц, диссертация для получения к.ф.м.н., Санкт-Петербург, 2008
Код специальности ВАК: 05.13.18, Математическое моделирование, численные методы и комплексы программ, Научная библиотека докторатов и авторефератов disserCat <http://www.dissercat.com/content/chislennoe-modelirovanie-i-kompleks-programm-optimizatsii-sistem-formirovaniya-nizkoenergeticheskikh-puchkov-zaryazhennykh-chastits>
<http://www.dissercat.com/content/chislennoe-modelirovanie-i-kompleks-programm-optimizatsii-sistem-formirovaniya-nizkoenergeticheskikh-puchkov-zaryazhennykh-chastits>
746. YX Wei, MG Huang, SQ Liu, BL Hao, JY Liu, CH Du... - 2013 - inis.iaea.org, Automated pinhole-aperture diagnostic for the current profiling of TWT electron beams.
747. [PDF] Electron gun optimization for irradiation applications. AA El-saftay, MM Abdelrahman, MS Ragheb... - cpc-hepnp.ihep.ac.cn
748. AA El-Saftawy, A Elfalaky, MS Ragheb..., Numerical Simulation of Beam Formation and Transport in an Electron Gun for Different Applications - Journal of Nuclear and ..., 2012 - researchgate.net

Работата:

148. G.Mladenov,P.Petrov ,Physical and Thermal Processes during EBWelding, Materials and Manufacturing Processes,USA , v.14,No3 (1999) pp. 331-345,

е цитирана в:

749. S.J.Jia, Deep penetration of aluminium alloy with high power Electron Beam, Mater.Manuf. Processes, 15(6) 2000, 903-912
750. B.G.Zhang, L.Wu, J.C.Feng, et al, The joint formation mechanism in electron beam welding on the center of equal thickness QCr 8 and 1Cr21Ni5Ti, Proc.of the First Int.Conf.of new forming technology, Sept 06-09, Harbin, China, 2004, pp.579-584
751. Zhang, H.-Q., Li, L.-H., Zhang, Y.-H., Li, G., Xia, L.-F., Shi, J.-G. Simulation analysis of dynamic process in electron beam welding (2002) Cailiao Kexue yu Gongyi, 10 (3), pp. 256-259.
752. Ma Xian G-sheng, Z Xing -an, L.Lin-he, Z Yan-hua, Study of microfabrication damage of Ni-base superalloy under thermal shock of electron-beam welding, Journal of Materials Engineering, 2, 2001, pp.36-39.
753. Wu Hui Quang Feng, Ji-kai He Jungsan, Research status and development of causing mechanism of deep penetration-Review of EB welding, Welding and Joining, 2003, 8, pp.5-7, 16
754. H. -Q Zhang, L. -H.Li, Y.-H.Zhang, G.Li, L.-F.Xia, J.G.Shi, Simulation of process during electron beam welding, Material Science and technology 10,3, p.256,

- 2002
755. Adnan C,Doctora Tezi, Elektron Isin Kaynagi Ile Birlestirimis Iki Farkli Celik Malzemein Kaynak Bolgesinin Incelenmesi , Makine Muhendisligi Ana Balim Dali Isparta, pp.135, 2004.
756. He Zhang, Tao Zhang, Yonhe Zhang, He Jun, Analisis and Preventiontation of Quality Defects of TC4 Titanium Alloy Weld by EBW, Aerospace Manufacturing Technology, v.10, 3, 2010
757. X.Zhang, Y.Zhang, Li Lui Xe, Ma X., Study of microfissming damage of Ni-based superalloy under thermal shock at EBW, Journal of Materials Engineering, 2, pp.36-39, 2001.
758. Hai-Quan Zhang, Electronic noise welding simulation analysis of dynamic process, Material Science and Technology, 2002
759. Zhang Yufeng, Computing the Joint Failure behavior assessment methods, Welding and Joining, 2003-cqvip.com.WUHUI
760. Хай-Куан, Джан Ли , Анализ на електроннольчево заваряване: симулация на динамичен процес, Материалознание и технология, 2002 г. – cqvip.com
761. Wuhui Qiang, Фън Джи, Електроннольчево заваряване: механизъм за дълбоко проникване-създаване на кухина, Заваряване, 2003- cqvip.com
762. Исе Джанг, Ю Фенг, Методи за оценка на поведението на заварени съединения при сейзмично натоварване, Заваряване, 2003- cqvip.com
763. <http://www.tandfonline.com/doi/abs/10.1080/10426919908914831#.VK0LySusUW4>
764. P. Rogeon, D. Couëdel, P. Le Masson, D. Carron, J. J. Quemener, J. C. Parpillon, O. Menès & R. Bertet , Determination of Critical Sample Width for Electron Beam Welding Process Using Analytical Modeling, Heat Transfer Engineering, Volume 25, Issue 2, 2004, pp. 52-62
765. Physical and Thermal Processes During Electron Beam Welding <http://www.tandfonline.com/doi/pdf/10.1080/10426919908914831>
766. Kar, J., Mahanty, S., Roy, S.K., Roy, G.G, Estimation of average spot diameter and bead penetration using process model during electron beam welding of AISI 304 stainless steel, 2015. Transactions of the Indian Institute of Metals 68 (5), A029, pp. 935-941
767. 张海泉, and 李光. "电子吵焊接动态过程仿真分析." *材料科学与工艺* 10.3 (2002): 256-259.
768. ZHANG, Hai-quan, et al. "电子束焊接热冲击对 GH4133A 的微裂纹损伤研究." *材料工程* 2 (2001).
769. 吴会强, 冯吉才, and 何景山. "电子束焊接深熔产生机理的研究现状与发展." *焊接* 8 (2003): 5-7.
770. 卢庆华, 张玉凤, 霍立兴, & 张莉. (2003). 抗震梁柱节点失效行为评估方法. *焊接*, (8), 12-16.
771. Dmitriy Trushnikov, Elena Krotova, and Elena Koleva, Use of a Secondary Current Sensor in Plasma during Electron-Beam Welding with Focus Scanning for Process Control, Hindawi Publishing Corporation Journal of Sensors, 016, Article ID 5302681, 13 pages, <http://dx.doi.org/10.1155/2016/5302681>
772. Kar, J., Roy, S.K., Roy, G.G., Influence of beam oscillation in electron beam welding of Ti-6AL-4V, 2018, International Journal of Advanced Manufacturing Technology, 94(9-12), c. 4531-4541

Работата:

148a. G.Mladenov, P.Petrov, **Physical and thermal processes during electron beam welding, Fifth international conference of electron beam technologies, 2-5 June 1997, Varna, Bulgaria,pp.65-70.**

е цитирана в:

- 773. М.Б.Пеева, Дипломна работа : Моделен подход за повишаване качеството при електронно-лъчево заваряване, ХМТУ-София, Катедра Автоматизация на производството, (2003)
- 774. Tim Renk, Bob Turman, Donna Senft et al, Rapid Melt and Resolidification of Surface Layers, Using Intense Pulsed Ion Beams. SANDIA REPORT, SAND98-21OI,Unlimited Release, Printed September 1998

Работата:

149. S.Sabchevski, G.Mladenov, A.Titov, I.Barbarich, D.Vereschagin, **Analysis and computer aided design of technological electron-optical systems by means of computer simulation, Fifth international conference on electron beam technologies, 2-5 June 1997, Varna, Bulgaria, pp. 9-16.**

е цитирана в:

- 775. Тупик, Виктор Анатольевич, Разработка методов синтеза и обработки наноразмерных пленок, диссертация на получения Ученой степени:доктор технических наук, Санкт-Петербург, Код специальности ВАК: 05.16.09 Материаловедение
- 776. Tim Renk, Bob Turman, Donna Senft et al, Rapid Melt and Resolidification of Surface Layers, Using Intense Pulsed Ion Beams. SANDIA REPORT, SAND98-21OI, Unlimited Release, Printed September 1998

Работата:

150. G.Mladenov, S.Wojcicki, K.Vutova, S.Sabchevski, **Electron beam welding thermal efficiency, Fifth international conference on electron beam technologies, 2-5 June 1997, Varna, Bulgaria,pp. 71-75.**

е цитирана в:

- 777. D.Ivanov, Prognosticating the technology models at EB welding in Industrial practise, Electron Beam Technology and Applications, Proceedings of Indo-Bulgarian Workshop,19-21 Nov.2003; pp.322-328.
- 778. E.Koleva, Дисертація за присъждане на научно-образов.степен"доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-лъчево заваряване",София,2006г.(научна специалност 02.21.06-Автомат.на инженерния труд и системи за автоматизирано проектиране).
- 779. М.Голковски, Расчет температурных полей и формирования структурных свойств поверхностных слоев металлов и сплавов при облучении пучком релятивистских электронов. Автореферат диссертации за присужд. Уч. Степени кфмн, Физика конденсированного состояния, Томск, стр.277, 2006 г.
- 780. Tim Renk, Bob Turman, Donna Senft et al, Rapid Melt and Resolidification of Surface Layers, Using Intense Pulsed Ion Beams. SANDIA REPORT, SAND98-21OI,Unlimited Release, Printed September 1998

Работата:

- 151.** S.Wojcicki, G.Mladenov, S.Sabchevski, An experimental investigation of the correlation between parameters of the electron beam welding process and the quality of welds, *Fifth international conference on electron beam technologies, 2-5 June 1997, Varna, Bulgaria*, pp.84-89.

е цитирана в:

781. E.Koleva, EB weld parameters and thermal efficiency improvement, Proc.7-th Intern.Conf. on EBT, Varna, 1-6 June 2003, pp 210-220
782. E.Koleva, I.Vuchkov. Model based approach for quality improvement of EB welding applications in mass production, Proc.7-th Intern.Conf. on EBT, Varna, 1-6 June 2003, pp 221-229
783. E.Koleva, Electron beam weld parameters and Thermal efficiency Improvement, Vacuum, v77, 4, (2005), 413-421
784. E.Koleva, I.Vuchkov. Model based approach for quality improvement of EB welding applications in mass production, Vacuum, v77,4,(2005), p423-428
785. E.Koleva, Statistical modelling and computer programs for optimization of the electron beam welding of stainless steel, Vacuum, v62, (2001), 151-157
786. E.Koleva, Дисертация за присъждане на научно-образов.степен"доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-лъчево заваряване", София, 2006г.(научна специалност 02.21.06-Автомат.на инженерния труд и системи за автоматизирано проектиране).
787. Tim Renk, Bob Turman, Donna Senft et al, Rapid Melt and Resolidification of Surface Layers, Using Intense Pulsed Ion Beams. SANDIA REPORT, SAND98-21OI, Unlimited Release, Printed September 1998.

Работата:

- 152.** M.Karjiev, J.Besedin, G.Mladenov, Parameters of plasma produced from electron beam evaporation of metal targets, *Fifth international conference on electron beam technologies, 2-5 June 1997, Varna, Bulgaria*, pp.155-159.

е цитирана в:

788. Numerical model of the plasma formation at electron beam welding. Trushnikov D.N., Journal of Applied Physics. 2015. T. 117. № 1. C. 013301.

Работата:

- 153.** K.Vutova, G.Mladenov, Computer simulation of the heat transfer through molten pool during electron beam melting and evaporation , *Fifth international conference on electron beam technologies, 2-5 June 1997, Varna, Bulgaria*, pp.273-280.

е цитирана в:

789. В. Василева, Т.Николов, Е.Георгиева, Изсл.влиянието на технол. параметри върху разпределението на примеси при ЕЛТ, Нац.конф.с межд.уч-е "ЕЛЕКТРОНИКА-98", Ботевград, Изд.СЕЕС,1998,77-83
790. Е.Колева, Дипл. Работа "Комп. модел на ЕЛтопене и рафиниране "ХТМУ" ,София, катедра Автом.на п-вото,1999
791. Пл. Запрянов, Дипломна работа: Разработване на технология за електронно-лъчево рафиниране на мед, ТУ София-филиал Пловдив, Факултет МУ, катедра МТТ (2002)
792. V.Vassileva, E.Georgieva, E.Koleva, "Acceleration of electron beam evaporation",

- Proc. of Nat. Conf. with Intern. Participation "Electronica'98", Botevgrad, Publisher UEEB, (1998), 70-72.
793. Tim Renk, Bob Turman, Donna Senft et al, Rapid Melt and Resolidification of Surface Layers, Using Intense Pulsed Ion Beams. SANDIA REPORT, SAND98-21OI, UnlimitedRelease, Printed September 1998

Работата:

157. Y.Gueorguiev, K.Vutova, G.Mladenov, Numerical modelling of the processes of exposure and development in electron beam lithography on high temperature superconductor thin films, *Thin Solid Films*, 323, (1998), pp. 222-226.

е цитирана в:

794. N.Tsikrikas, D. Dryginnakis, G.P.Patsis, I.Raptis, A.Gerardino, S.Stavroulakis, E.Vyiatzis, Pattern matching, simulation and metrology of complex layouts fabricated by electron beam lithography.Journ. Vac.Sci.Technol. B, 25(6)2007, pp. 2307-2311.
795. B.Gao, S.Z.Hao, C.Dong, G.F.Tu, Improvement of wear resistance of AZ31 and AZ1HP by high current pulsed electron beam treatment, Trans.of nonferrous metals soc. of China, 15(5), 2005, pp.978-984.
796. S.Kim, The proximity effects in high-temperature superconductor nano structures, Dissertation for degree of Dr of Phil.University of Texas at Austin,Aug.2005
797. Bo, G., Sheng zhi, H. A. O., Chuang, D., & Gan feng, T. U. (2005). Improvement of wear resistance of AZ31 and AZ91HP by high current pulsed electron beam treatment - paper.edu.cn
798. Tsikrikas, N., Patsis, G. P., Raptis, I., Gerardino, A., & Quesnel, E. (2008). Electron beam lithography simulation for the patterning of extreme ultraviolet masks. *Japanese Journal of Applied Physics*, 47(6S), 4909.
799. N Tsikrikas, D Drygiannakis, GP Patsis, I Raptis... - 2007 - dspace.lib.ntua.gr, Pattern matching, simulation, and metrology of complex layouts fabricated by electron beam lithography
800. N Tsikrikas, GP Patsis, I Raptis, A Gerardino... - 2008 - dspace.lib.ntua.gr, Electron beam lithography simulation for the patterning of extreme ultraviolet masks

Работата:

- 157a. Y.Gueorguiev, K.Vutova, G.Mladenov, Numerical modelling of the processes of exposure and development in electron beam lithography on high temperature superconductor thin films,*Mathematics and computers in Simulation*, 47(1998)299-307.

е цитирана в:

801. N. Tsikrikas, G.P. Patsis, I. Raptis, A. Gerardino, E.Quesnel, Electron beam lithography simulation for the patterning of extreme ultraviolet masks, Jap. Journ. of applied physics, 47 (6) 2008, Part 2, pp.4909-4912, 20th International Microprocesses and Nanotechnology conference, Nov.05-08, 2007, Kyoto,Japan.
802. G Bo, HAO Sheng-zhi, D Chuang, 《材料热处理学报》2004年5期-万方学术圈 Application of *Electron Beam* Surface Technologies in the Automotive Industry, High Current Pulsed Electron Beam Treatment, 2010, pp. 97-106
803. Improvement of wear resistance of az31 and az91hp by high current pulsed electron beam treatment, Gao B., Tu G.-F., Hao S.-Z., Dong C., Transactions of Nonferrous

Metals Society of China. 2005. T. 15. № 5. C. 978-984.

Работата:

- 158. G.Mladenov, K.Vutova, S.Wojcicki, An experimental investigation of the weld depth and thermal efficiency during electron beam welding, *Vacuum*, v.51, № 2, (1998), pp.231-233.**

е цитирана в:

804. Пл.Запрянов, Дипломна работа: Разработване на технология за електронно-льчево рафиниране на мед, ТУ София-филиал Пловдив, Факултет МУ, катедра МТТ(2002)
805. М.Б.Пеева, Дипломна работа: Моделен подход за повишаване качеството при електронно-льчево заваряване, ХМТУ-София, Катедра Автоматизация на производството, (2003)
806. D.Ivanov, Prognosticating the technology models at EB welding in Industrial practise, Electron Beam Technology and Applications, Proceedings of Indo-Bulgarian Workshop,19-21 Nov.2003; pp.322-328.
807. Il-Han Hwang, Suck-Joo Na, A study on heat source modelling of Scanning Electron Microscopy modified for material processing, Metallurgical and Materials Transaction B, Febr.2005, v36, No1, pp 133-139
808. C.Y.Ho, Chung Ho Apparent adsorption in a paraboloid of revolution-shaped cavity irradiated by a focused beam. Heat and Mass Transfer, 42(2) 2005, 91-103; Springer link-Article, published on line 16 July2005.
809. C.Y.Ho, Fusion zone during focused EBW, International forum on the advances in materials processing technology, Aug.30-31, Glasgow, Scotland, 2005, pp.45-48
810. C.Y.Ho, Fusion zone during electron beam welding, Journal of Materials Processing Technology, 167 (2-3), 2005, pp. 265-272
811. P.W.Wang, K.R. Kimberlin, C.Y.Wang, Y.Tao, Q.L.Guo, A.M.Wu, J.J.Xu , Surface cracking of soda lime glass under pulsed high current electron radiation, Materials chemistry and physics, 94(2-3) 2005, pp.252-256.
812. C.T.Chi, C.G.Chao, T.F.Liu, C.C.Wang, A study of weldability and fracture modes in electron beam weldment of AZ series magnesium alloys, Materials Sci.and EngineeringA-structural materials properties microstructure and processing,435, 2006, pp.672-680.
813. Y.H.Tian, C.Q.Wang, D.Y.Zhu, Modeling of the temperature field vduring electron beam welding of aluminium alloy by pre-defined keyhole, Progresses in fracture and strength of materials and structures, Part 1-4, 353-358, Ed.Y.Zhou, S.Tu, X.Xie, 2007, pp2011-2014 (Nov.2006, Sanya, Peopl.Rep.China).
814. C.Wang, S.Hao, F.Shi, J.Qi, Y.Tao, Interaction of high current pulsed electron beam with phosphate laser glass, Materials Science-Poland, 25(4), 2007, pp.1101-
815. ~~Y108~~o, G.Q.You, H.Ye, J.H.Liu, Simulationof welding thermal effect of AZ61 magnesium alloy based on three-dimensional modeling of vacuum electron beam welding heat source, Vacuum, 84(7) 2010, pp.890-895.
816. L.Shixiong, Electron Beam Welding on Thin Aluminum Alloy, Welding and Joining, No6,2005, p29-32
817. E.Koleva, Electron beam weld parameters and thermal efficiency improvement, Vacuum, v77, 4, (2005), 413-421
818. E.Koleva, Statistical modelling and computer programs for optimization of the electron beam welding of stainless steel, Vacuum, v62, (2001), 151-157
819. Y.Tian, C. Wang, D. Zhu , Modelling of the temperature field during EB welding of

- aluminium alloy by a pre-defined keyhole, Key engineering materials 353-358 (part 3) pp.2011-2014, 2007
820. V. Dey, D.K.Pratihar, G.L. Datta, Prediction of weld bead profile using neural networks, Proceedings-1st Intern. Conf. On Emerging Trends in Engineering and Technology, ICETET 2008, art.N 4579967, pp.581-586
821. Б.Г.Зханг, Л.Ву, Й.Ц.Фенг, Х.В.Ли, В.П.Ђанг, Ц.Л.Зху, The joint formation mechanism in electron beam welding on the center of equal thickness QCr), 8 and 1Cr21Ni5Ti, Proceedings of 1st International conference on new forming technology, sept 06-09, Harbin, China, Ed. ZRWang, T.A.Dean, S.I.Yuan.
822. Luo, Y. , Liu, J., Ye, H., Numerical simulation on keyhole thermal effect of vacuum electron beam welding of magnesium alloy, Hanjie Xuebao/Transactions of the China Welding Institution, Volume 31, Issue 12, December 2010, Pages 73-76
823. Luo, Y. , Liu, J.H. , Ye, H., Simulation on the thermal behavior in vacuum electron beam welding of magnesium alloy (Conference Paper), Advanced Materials Research, Volume 189-193, 2011, Pages 3317-3325
824. Wei, P.S., Chuang, K.C. , Ku, J.S. , Debroy, T., Mechanisms of spiking and humping in keyhole welding, IEEE Transactions on Components, Packaging and Manufacturing Technology, Volume 2, Issue 3, March 2012, Article number 6129493, Pages 383-394
825. JIANGLIN H, The characterization and modelling of porosity formation in EB welded Titanium alloys, Schoolof Metallurgy and Materials, University of Birmingham-for the degree of Doctor of philosophy, Sept.2011
826. C.Wang, S.Hao, F.Shi, Interactions of high current pulsed electron beam with phosphate laser glass, Material Science, v.25, 4, 2007
827. Lvshi Xiong, Qing-Shen-Wy, Електроннольчево заваряване на тънки алюминиеви листове, Заваряване, ,2005- cqvip.com
828. Min Sung Hong, Jong Min Kim, Noh Yu Kim, A study on the measurement system using an ultrasonic sensor in EBW, Key Engineering Materialsv.321-323, pp.1715-1718
829. Tsin Yan, „Heat transfer in fusion zone around a keyhole produced by a focused beam”, Chinese institute of technology, Report NSC 93-2212-E-146-001, (1999).
830. Yang Xuejing, PhD thesis, National Defence University Chung Cheng Institute of Technology, (2002).
831. Z.Hongtao, „Ti 3Al/TC4 electron beam welding dissimilar materials”, Thesis, Harbin Institute of Technology, (2005).
832. Liu Wei, Zhao Haisheng, He Jingshan, Zhang Binggang, “Microstructure and fracture path of electron beam welded joint of QCr0.8/TC4 sheet”, Transactions of the China welding institution, 28 (08), (2007), pp.81-84
833. Lamiera, „Saldabilità con fascio elettronico di lamiere alluminio-idrogeno”, Riviste digitali, Settore: Meccanica, (2008), pp.90-99.
834. Liu Wei, Chen Guoqing, Zhang Binggang, Feng Jicai, „Analysis of structure and growth of QCr0.8/TC4 welded reaction layer by electron beam welding”, Transactions of the China welding institution, 29, (4), (2008), 85-88.
835. . Zhang B., Wang T., Chen G., Feng J., Li D., “Fine microstructure and its effect on hardness of electron beam welding joint of TC21 Ti alloy”, The Chinese Journal of Nonferrous Metals, v.20, (2010), 829-832
836. Luo, Y., You, G., Ye, H.,Liu, J., Simulation on welding thermal effect of AZ61 magnesium alloy based on three-dimensional modeling of vacuum electron beam welding heat source,2010, Vacuum, 84 (7), pp. 890-895

837. Tadamalle, A.P., Reddy, Y.P., Ramjee, E., Reddy,V.K., "Influence of welding speed on the melting efficiency of Nd:YAG laser welding", Advances in Production Engineering & Management, V.9, N. 3, (2014), pp. 128– 138,
838. <http://dx.doi.org/10.14743/apem2014.3.182>
839. [http://irwelding.persiangig.com/document/jooshkari/Electeron%20Beam%20Welding/partoo%20electron%20\(tarjome\).docx/download?08f](http://irwelding.persiangig.com/document/jooshkari/Electeron%20Beam%20Welding/partoo%20electron%20(tarjome).docx/download?08f)
840. TC21 钛合金电子束焊缝精细组织及其对硬度的影响 - 中国
www.ysxcbn.com/down/paperDown.aspx?id=... Електронно-льчево заваряване на титан 20 том 1 албум, Китайският вестник на цветни метали, Октомври 2010,...
841. Sessim, M. F. F. (2015). *INSPEÇÃO DE SOLDA DO BOCAL DO ELEMENTO COMBUSTÍVEL PWR POR RADIOGRAFIA DIGITAL* (Doctoral dissertation, Universidade Federal do Rio de Janeiro).
842. Huang, J. (2012). *The characterisation and modelling of porosity formation in electron beam welded titanium alloys* (Doctoral dissertation, University of Birmingham).
843. 40. 刘伟, 赵海生, 何景山, & 张秉刚. (2007). QCr0. 8/TC4 薄板电子束焊接头组织及断裂路径. 焊接学报, 28(8), 81-84.
844. 41. 吕世雄, 吴庆生, 林三宝, 杨春利, & 李刚. (2005). 薄壁铝合金电子束焊工艺. 焊接, (6), 29-32.
845. 42. CT Chi, CG Chao, TF Liu, CC Wang - 2006 - inis.iaea.org, A study of weldability and fracture modes in electron beam weldments of AZ series magnesium alloys
846. 43. Luo, Y., Xie, X., Wan, R., Zhu, Y., Influence of Thermal Effect on Micro-hardness of Magnesium Alloy Weld of Vacuum Electron Beam Welding, 2017, Xiyou Jinshu Cailiao Yu Gongcheng/Rare Metal Materials and Engineering, 46(2), c. 496-502

Работата:

159. K.Vutova, G.Mladenov, Computer simulation of the heat transfer during electron beam melting and refining, Vacuum, (1999) v.53, №1-2, pp. 87-91.

е цитирана в:

847. Е.Колева, Дипл. работа "Комп.модел на Елтопене и рафиниране "ХТМУ" ,София, катедра Автом.на п-вото,1999
848. R.J.Goldstein, E.R.G. Eckert et al.,Heat transfer-a review of 1999 literature, Int.J.of heat and mass transfer 44(19) 2001, 3579-3699
849. E. Koleva, Statistical analysis of EB melting and refining - State of the arts, 29-31 Oct.2000, Reno, Nevada, USA,pp.174 - 187.
850. Пл.Запрянов, Дипломна работа : Разработване на технология за електронно-льчево рафиниране на мед, ТУ София-филиал Пловдив, Факултет МУ,катедра МТТ(2002)
851. E.Koleva, The role of EB melting parameters on the geometry of the melting pool of Cu, Electron Beam Technology and Applications, Proceedings of Indo-Bulgarian Workshop,19-21 Nov.2003; pp.70-75.
852. Ou, J., Chatterjee, A., Reilly, C., Maijer, D.M., Cockcroft, S.L., Computational modeling of the dissolution of alloying elements (Conference Paper), TMS Annual Meeting, Volume 1, 2012, Pages 871-878
853. Donchev, V., Electron beam melting and refining of metals: Computational

- modeling and optimization, Materials, Volume 6, Issue 10, 2013, Pages 4626-4640
854. Дипломната работа на Велико Динков Дончев, ф.н. 23960 на тема: „Оптимизация на процеса на електроннольчево топене и рафиниране на метали“ Софийски Университет “Св. Климент Охридски”, Факултет по Математика и Информатика, Магистърска програма “Оптимизация”, направление “Приложна математика” 2013 г.
855. Donchev, V., Optimization method for electron beam melting and refining of metals (2014) Journal of Physics: Conference Series, 490 (1), art. no. 012211.
856. Tao Meng, Factors influencing the fluid flow and heat transfer in EBM of Ti-6Al-4V, The University of British Columbia, Vancouver, 2009
857. O.Cansizoglu, “Mesh structures with tailored properties and applications in hip stems”, a dissertation for the degree of PhD, North Carolina State University, USA, (2008).
858. Tsibriy, I., Grabovskiy, H., Heat exchange calculation in the intermediate container under electron-beam melting, 2015 , Metallurgical and Mining Industry ,7 (5), pp. 51-60
859. Sahoo, S., Chou, K., PHASE-Field simulation of microstructural evolution of Ti-6A1-4V in electron beam additive manufacturing process, 2014 , Materials Science and Technology Conference and Exhibition , MS and T 2014, 3, pp. 2117-2124
860. Cansizoglu, Omer. "Mesh Structures with Tailored Properties and Applications in Hip Stems." (2009) с сайта ncsu.edu
861. Meng, Tao. "Factors influencing the fluid flow and heat transfer in electron beam melting of Ti-6Al-4V." (2009) - circle.ubc.ca
862. Tsibriy, Iuriy, and Heorhiy Grabovskiy. "Heat exchange calculation in the intermediate container under electron-beam melting." (2015) - metal
863. Sahoo, SanChou, K. , Phase-field simulation of microstructure evolution of Ti-6Al-4V in electron beam additive manufacturing process ,2016 , Additive Manufacturing , 9, pp. 14-24
864. Tsibriy, I., Grabovskiy, H., Heat exchange calculation in the intermediate container under electron-beam melting, 2015, Metallurgical and Mining Industry, 7 (5), pp. 51-60
865. Tsibriy, I., Grabovskiy, H., Heat exchange calculation in the intermediate container under electron-beam melting, 2015 , Metallurgical and Mining Industry , 7 (5), pp. 51-60
866. Ou, J., Chatterjee, A., Reilly, C., Maijer, D.M., Cockcroft, S.L., Computational modeling of the dissolution of alloying elements 2012, TMS Annual Meeting ,1, pp. 871-878
867. Non-stationary heat model for electron beam melting and refining - an economic and conservative numerical method, Donchev V. Applied Mathematical Modelling. 2016. Т. 40. № 2. С. 1565-1575.
868. Investigation of tantalum recycling by electron beam melting, Munirathnam N., Amalnerkar D.P., Tanaka T., Metals. 2016. Т. 6. № 11. С. 287.

Работата:

160. E.Koleva, G.Mladenov, K.Vutova, Calculation of weld parameters and thermal efficiency in electron beam welding,*Vacuum*, v.53 (1999) №1-2, pp.67-70.

е цитирана в:

869. М.Б.Пеева, Дипломна работа, Моделен подход за повишаване качеството при

- електронно-лъчево заваряване, ХМТУ-София, Катедра Автоматизация на производството, (2003)
870. D. Ivanov, Prognosticating the technology models at EB welding in Industrial practise, Electron Beam Technology and Applications, Proceedings of Indo-Bulgarian Workshop, 19-21 Nov.2003; pp.322-328.
871. Il-Han Hwang, Suck-Joo Na, A study on heat source modelling of Scanning Electron Microscopy modified for material processing, Metallurgical and Materials Transaction B, Febr.2005, v36, No1, pp 133-139
872. C.A. Huang, T.H. Wang, C.H. Lee, W.C. Han, A study of heat affected zone(HAZ) of an Inconel 718 sheet welded with electron beam welding(EBW), Materials Sci.and Engineering A-structural materials properties, microstructure and processing, 398(1-2) 2005, pp.275-281.
873. P.W. Wang, K.R. Kimberlin, C.Y. Wang, Y. Tao, Q.L. Guo, A.M. Wu, J.J. Xu , Surface cracking of soda lime glass under pulsed high current electron radiation, Materials chemistry and physics, 94(2-3) 2005, pp.252-256.
874. C.T. Chi, C.G. Chao, T.F. Liu, C.C. Wang, A study of weldability and fracture modes in electron beam weldment of AZ series magnesium alloys, Materials Sci.and EngineeringA-structural materials properties microstructure and processing,435, 2006, pp.672-680.
875. C.A. Huang, T.H. Wang, W.C. Han, C.H. Lee, A study of galvanic corrosion behavior of Inconel 718 after electron beam welding, Materials chemistry and physics, 104 (2-3) 2007, pp.293-300
876. Huang, C.A., Wang, T.T., Han, W.C., Lee, C.H. A study of the galvanic corrosion behavior of inconel 718 after electron beam welding (EBW)(2005) Proceedings - Electrochemical Society, PV 2004-14, pp. 299-310.
877. C.Y. Ho, M.Y. Wen, Y.C. Lee, Analytical solution for three-dimensional model predicting temperature in the welding cavity of electron beam, Vacuum, 82(3), 2007, pp.316-320.
878. C.A. Huang, T.H. Wang, Y.Z. Chang, W.C.Han, C.H.Lee, Tensile behaviour of different pretreated alloy 718 sheets welded with electron beam welding, Science and Technology of Welding and Joining, 13(7) 2008, pp.646-655.
879. Y. Luo, J.H.Liu, H.Ye, An analytical model and tomographic calculation of vacuum electron beam welding heat source, Vacuum,84(6) 2010, pp.857-863.
880. Y. Luo, G.Q. You, H.Ye, J.H.Liu, Simulation of welding thermal effect of AZ61 magnezium alloy based on three-dimensional modeling of vacuum electron beam welding heat source, Vacuum,84(7)2010, pp.890-895.
881. Experimental and Design Catalogo Articoli (Spogli Riviste)
882. V. Dey, D.K. Pratihar, G.L. Datta, Prediction of weld bead profile using neural networks, Proceedings-Intern. Conf. on Trends in Engineering and Technology, ICETET 2008, art. N 4579967, pp.581-586
883. A. Munteanu, D. Dehelean, S.M. Ilii, "Some phenomena regarding the superficial layer in case of the electron beam process", Proc. of the 11th ESAFORM Conference on material forming, Lyon, France, (2008), 362-365.
884. L. Slanineanu, M. Coteata, O. Dodun, D.Anton, A.Munteanu, S.M.Ilii, "Impact phenomena during electrical discharge machining", Proc. of the 3rd International Conference on Manufacturing Engineering (ICMEN), 1-3 Oct. 2008, Chalkidiki, Greece, (2008), 193-198.
885. C.Y. Ho, M.Y. Wen, D.N. Chen, S.Y.Lin, J.E.Ho, An Analytical Model Predicting Temperatures in the Cavity Induced by Electron Beam Welding, Electrotehnika i

- Electronika, v41, No 5-6, 2006, pp.93-97
886. Luo, Y., Liu, J., Ye, H., Numerical simulation on keyhole thermal effect of vacuum electron beam welding of magnesium alloy, Hanjie Xuebao/Transactions of the China Welding Institution, Volume 31, Issue 12, December 2010, Pages 73-76
887. Biswas, P., Mandal, N.R., Vasu, P., Padasalag, S.B., A study on port plug distortion caused by narrow gap combined GTAW & SMAW and Electron Beam Welding, Fusion Engineering and Design, Volume 86, Issue 1, January 2011, Pages 99-105, ISSN: 09203796
888. A.Calik, "Elektron isin kaynagi ile birlestirilmis iki farkli celik malzemenin kaynak bolgesinin incelenmesi", Doktora tezi, Makine Muhendisligi Anabilim dali, isparta, 2004
889. Luo, Y., Liu, J.H. , Ye, H., Simulation on the thermal behavior in vacuum electron beam welding of magnesium alloy, Advanced Materials Research, Volume 189-193, 2011, Pages 3317-3325, ISSN: 1022-6680
890. Yi Luo, Hong Ye, Changhua Du, Huibin Xu, Influence of focusing thermal effect upon AZ91D magnesium alloy weld during vacuum electron beam welding, Vacuum, Volume 86, Issue 9, (2012), pp.1262-1267. (ISSN: 0042-207X) ISSN: 0042-207X.
891. A. Munteanu, D.Dehelean, S.M.Illi, "Some phenomena regarding the superficial layer in case of the electron beam process", International Journal of Material Forming, v1, 51,1363-1366,2008
892. 镁合金真空电子束焊接匙孔热效应数值模拟 罗怡 · 刘金合, 叶宏 -
焊接学报, 2010 - cqvip.com
分析了镁合金真空电子束焊接过程中的匙孔热效应特征,
针对真空电子束焊接工艺建立了适用于
镁合金焊接的复合热源模型。
考虑到焊接过程中存在的高温金属蒸气等离子体及真空电子束焊接
"匙孔" 深熔效应特征, 模型由高斯面热源和圆锥体热源复合而成,
利用高斯面热源功率分配 ...
893. Luo, Y., Liu, J., Ye, H. , An analytical model and tomographic calculation of vacuum electron beam welding heat source , 2010, Vacuum , 84 (6), pp. 857-863
894. . Hwang, I.L.-H., Na, S.-J., A study on heat source modeling of scanning electron microscopy modified for material processing, 2005, Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 36 (1), pp. 133-139
895. Yang Xuejing, PhD thesis, National Defence University Chung Cheng Institute of Technology, (2002).
896. G. O. Ilevbare, K. J. King, S. R. Gordon, H. A. Elayat, G. E. Gdowski, and T. S. E. Gdowski, "Effect of Nitrate on the Repassivation Potential of Alloy 22 in Chloride-Containing Environments", J. Electrochem. Soc., Volume 152, Issue 12, pp. B547-B554 (2005), doi: 10.1149/1.2104067
897. И.Йорданова, Дипломна работа "Моделен подход за оптимизация на процеса електроннольчево заваряване чрез робастни методи", ХМТУ-София, Център по Европейско качество, (2008).
898. В.Георгиева, Дипломна работа "Управление на качеството чрез робастно инженерно проектиране при електроннольчево аваряване на Стомана 45",

- ХМТУ-София, Център по Европейско качество, (2008)
899. П.Петров, „Физически процеси и материали при обработка с концентрирани енергетични потоци”, дисертация за получаване на научната степен „доктор на физическите науки”, София, 2009 г
900. D.K.Pratihar, V.Dey, A.V.Bapat and K.Easwaramoorthy, Chapter 11 “Electron beams for macro- and microwelding applications, pp.221-240, in book Micromanufacturing Processes, ed. V.K.Jain, publ. CRC Press, ISBN 9781439852903, (2012).
901. Dey V., Pratihar D.K., Datta G.L., “Forward and reverse modeling of electron beam welding process using radial basis function neural networks”, Int. J. of Knowledge-Based and Intelligent Engineering Systems, v.14 (4), (2010), 201-215.
902. V Dey, DK Pratihar, GL Datta, Prediction of weld bead profile using neural networks- Emerging Trends in Engineering, 2008, First International Conf. ICETE, 16-18 July 2008, Nagpur, Maharashtra, DOI: 10.1109/ICETET.2008.237
903. 新闻网页贴吧知道音乐图片视频地图百科文库
<http://wenku.baidu.com/view/11cf03d233d4b14e8524684d.html>
904. [http://irwelding.persiangig.com/document/jooshkari/Electeron%20Beam%20Welding/partoo%20electron%20\(tarjome\).docx/download?08f5](http://irwelding.persiangig.com/document/jooshkari/Electeron%20Beam%20Welding/partoo%20electron%20(tarjome).docx/download?08f5)
905. Ilevbare G. O. et al. Effect of nitrate on the repassivation potential of alloy 22 in chloride-containing environments //Journal of The Electrochemical Society. – 2005. – Т. 152. – №. 12. – С. B547-B554.
906. 罗怡, 刘金合, 叶宏. 镁合金真空电子束焊接匙孔热效应数值模拟 //焊接学报. – 2010. – №. 12. – С. 73-76.
907. Tan, Y., You, X.-G., Li, J.-Y., Shi, S. Application of electron beam technology in superalloy , 2015, Cailiao Gongcheng/Journal of Materials Engineering , 43 (12), pp. 101-112
908. Sahoo, S., Chou, K., Phase-field simulation of microstructure evolution of Ti-6Al-4V in electron beam additive manufacturing process, 2016 ,Additive Manufacturing , 9, pp. 14-24
909. D Das, DK Pratihar, GG Roy, AR Pal , Phenomenological model-based study on electron beam welding process, and input-output modeling using neural networks trained by back-propagation algorithm ... - Applied Intelligence, 2017 – Springer
910. 전자 빔과 이온 빔 가공기술의 현황
911. 조향은 , 강은구 , 전병국 - 한국정밀공학회지, 2018 - dbpia.co.kr
912. ELEKTRON İŞİN KAYNAK YONTEMİ M Aydın - Dumlupınar Üniversitesi Fen Bilimleri Enstitüsü Dergisi - dergipark.gov.tr
913. 电子束技术在高温合金中的应用
 谭毅, 游小刚 · 李佳艳 · 石爽 - 材料工程, 2015 - cqvip.com
914. Joe, H.-E., Kang, E.-G., Jun, M.B.G., A review of state of the art of electron beam and ion beam machining, Journal of the Korean Society for Precision Engineering,35(3), c. 241-252
915. Luo, Y., Xie, X., Wan, R., Zhu, Y., Influence of Thermal Effect on Micro-hardness of Magnesium Alloy Weld of Vacuum Electron Beam Welding, Xiyou Jinshu Cailiao Yu Gongcheng/Rare Metal Materials and Engineering,46(2), c. 496-502

Работата:

- 161. S.Sabchevski, G.Mladenov,T.Idehara. Modeling and simulation of magnetron injection guns for gyrotrons, *Electronica'98- Nat.Conf.with Intern. participations*, Botevgrad 15-16 Oct.1998, Publ.Ueec, (1998) pp.23-28.**

е цитирана в:

916. Zaslavsky, V.Yu., Ginzburg, N.S., Glyavin, M.Yu., Zhelezov, I.V., Zotova, I.V., Three-dimensional particle-in-cell modeling of terahertz gyrotrons with cylindrical and planar configurations of the interaction space, Physics of Plasmas, Volume 20, Issue 4, April 2013, Article number 043103
917. AN Kuleshov, BP Yefimov, Zavertanniy, V.V. ; Zhiglo, V.F., The Design and Characteristics of Low-Voltage Adiabatic Magnetron-Injection Gun, Conference Physics and Engineering of Millimeter and Submillimeter waves, pp. 556 – 558 doi: 10.1109/ MSMW.2007.4294733
918. M Glyavin, T Saito - FIR FU-88, 2008 - fir.u-fukui.ac.jp
919. 王丽, et al. "磁场分布曲线对高功率回旋管磁控注入枪影响的分析." *强激光与粒子束* 15.12 (2004): 1233-1236.
920. Ван Ли, Лихонг Фу. Магнитна крива на разпределение поле с висока мощност, Анализ на въздействие на магнетронно-инжекционна електронна пушка; Лазерни и електронни снопове с висока мощност и ускорени частици, 2003-cqvip.com
921. Mitsudo, S., Fujiwara, T., Conceptual design study of a Novel Gyrotron for NMR/DNP Spectroscopy, 2005 , International Journal of Infrared and Millimeter Waves, 26 (9), pp. 1241-1264

Работата:

- 165. Sabchevski S., Mladenov G., Idehara T. Modelling and Simulation of Magnetron Injection Guns for Submillimeter Wave Gyrotrons.-Intern. Journal of Infrared and Millimeter Waves, Vol.20, N6, (1999), pp1019-1035**

е цитирана в:

922. I.Ogava et al. Computer simulation of axis-eicircling beam generating by EB gun with permanent magn. System, Int.J.Infrared and Milim. Waves, 21(8)pp.1191-1202 (2000)
923. Glyavin, M., Mitsudo, S., Ogawa, I., Ohashi, K., Kobayashi, H. Computer simulation of axis-encircling beams generated by electron gun with permanent magnet system (2000) 2000 13th International Conference on High-Power Particle Beams, BEAMS 2000, art. no. 6220011, pp. 889-892.
924. Ogawa, I., Glyavin, M., Mitsudo, S., Ohashi, K., Kobayashi, H. Computer simulation of axis-encircling beams generated by an electron gun with a permanent magnet system (2000) International Journal of Infrared and Millimeter Waves, 21 (8), pp. 1191-1209.
925. A.N.Kuleshov, B.P.Yefimov, V.V.Zavertanniy, V.F.Zhiglo, The design and characteristics of low-voltage adiabatic magnetron-injection gun, 6th Int. Kharkov symposium on physics and engineering of microwaves, millimeter and submillimeter waves/workshop on terahertz technologies, v.1and 2, 2007, pp.556-558
926. Zaslavsky, V. Y., Ginzburg, N. S., Glyavin, M. Y., Zhelezov, I. V., & Zotova, I. (2013). Three-dimensional particle-in-cell modeling of terahertz gyrotrons with cylindrical and planar configurations of the interaction space. *Physics of Plasmas*

- 20(4), 043103.
927. M Glyavin, T Idehara, T Saito - FIR FU-88, 2008 - fir.u-fukui.ac.jp
928. 王丽, et al. "磁场分布曲线对高功率回旋管磁控注入枪影响的分析." *强激光与粒子束* 15.12 (2004): 1233-1236.
929. Ван Ли, Лихонг Фу. Магнитна крива на разпределение поле с висока мощност, Анализ на въздействие на магнетронно-инжекционна електронна пушка; Лазерни и електронни снопове с висока мощност и ускорени частици, 2003-cqvip.com
930. Submillimeter wave gyrotron development and applications: Fukui University/Sydney University Collaboration; Ed. By T.Idehara and C.F.Brand, Publ. Exit Co, Japan, June 2000
931. M.Caplana, C.Thoringtona, Improved computer modeling of magnetron injection guns for gyrotrons, International Journal of Electronics, 51, 4, 1981, pp.415-426
932. Gilmour, Principles of Klystrons, Twts, agnetrons, Cfes and Gyrotrons : Artech House ISBN 139781608071845 p.740, 2011
933. http://slh.alljournals.cn/search_by_author.aspx?subject=mathematical_chemical&major=wlx&field=author_name&encoding=utf-8&q=T.+Idehara
934. "Study of electron beam misalignment in a submillimeter wave gyrotron" Int. J. Infrared Millimeter Waves, <https://kaken.nii.ac.jp/d/p/09045051/1999/6/ja.ja.html>
935. ZENG Xu, WANG E-feng, LIU Ben-tian, LI Zhi-liang, FENG Jin-jun(The 12th Institute, China Electronics Technology Group Corporation, Beijing 100015, China), 170GHz回旋管电子枪的设计 Design of the magnetron injection gun for 170 GHz gyrotron, 【文献出处】太赫兹科学与电子信息学报, Journal of Terahertz Science and Electronic Information Technology, 编辑部邮箱, 2013年02期, 【分类号】TN102;TL624
936. <https://u-fukui.academia.edu/DrSvilensabchevski/Papers>
937. 王丽 et al. 磁场分布曲线对高功率回旋管磁控注入枪影响的分析 □ //强激光与粒子束. – 2003. – Т. 15. – №. 12.
938. AN Kuleshov, BP Yefimov... ,The Design and Characteristics of Low-Voltage Adiabatic Magnetron-Injection Gun - ... and Engineering of ..., 2007 - ieeexplore.ieee.org
939. AN Kuleshov, BP Yefimov, VV Zavertanniy... The Design and Characteristics of Low-Voltage Adiabatic Magnetron-Injection Gun- 2007 International Kharkov ... - infona.pl
940. [PDF] 磁场分布曲线对高功率回旋管磁控注入枪影响的分析 □ 王丽 · 李宏福, 牛新建, 邓学 - 强激光与粒子束, 2003 - hplpb.com.cn

Работата:

167. K.Vutova, G.Mladenov, T.Tanaka, K.Kawabata, Evaluation of thin film surface topology shapes, *Mathematics and Computers in Simulation*, v.49, No 4-5, (1999), 275-283.

е цитирана в:

941. J.Zemek, Spectroscopy of corrugated solid surfaces, Annalytical sciences, 26(2), 2010, pp.177-186.
942. Katona, L., Bianchi, D., Brenner, J., Vorlaufer, G., Vernes, A. , Betz, G., Werner,

- W.S.M., Effect of surface roughness on angle-resolved XPS (Conference Paper), Surface and Interface Analysis, Volume 44, Issue 8, August 2012, Pages 1119-1123
943. Bianchi, D., Katona, L., Brenner, J., (...), Vernesa, A., Werner, W.S.M. Numerical approximation of AR-XPS spectra for rough surfaces considering the effect of electron shadowing, 2015, Surface and Interface Analysis, 47 (1), pp. 15-21

Работата:

- 168. K.Vutova, G.Mladenov, T.Tanaka, K.Kawabata, Photoelectron Signal Simulation from Textured Overlayer Samples, *Surface and Interface Analysis*, v30, (2000) , 552-556.**

е цитирана в:

944. Zemek, J. Electron spectroscopy of corrugated solid surfaces (2010) Analytical Sciences, 26 (2), pp. 177-186.
945. K.Olejnik, J.Zemek. Applicability of magic angle for angle-resolved X-ray photoelectron spectroscopy os corrygated SiO₂/Si surfaces. Monte Carlo calculation, Surf.Sci.602(14) 2008, pp. 2581-2586.
946. M.Mohai, Calculation of layer thickness on rough surfaces by polyhedral model. Surf.and Interface analysis, 40(3-4)2008, pp.710-713.
947. S.V.Merzlikin, N.N.Tolkachev, T.Strunskus, G.Witte, T.Glogowski, C.Woll, W.Grunert, Resolving the depth coordinate in photoelectron spectroscopy-Comparison of excitation energy variation vs. angular re-solved XPS for the analysis of self-assembled monolayer model system. Surf. Sci., 602(3), 2008,
948. pp.755-767. Electron transport at solid surfaces, Acta Physica Slovaca, 56(4), 2006, pp. 543-553.
949. K.Olejnik, J.Zemek, W.S.M.Werner, Angular-resolved photoelectron spectroscopy of corrygated surfaces, Surf. Sci. 595(1-3)2005, pp.212-222.
950. Bianchi, D., Katona, L., Brenner, J., Vorlaufer, G., Vernes, A. , Werner, W.S.M., Betz, G., Surface roughness, waviness, and shape induced effects in angle-resolved XPS (Conference Paper), Surface and Interface Analysis, Volume 44, Issue 8, August 2012, Pages 1096-1099 , doi: 10.1002/sia.3858, Online ISSN: 1096-9918
951. S. Hofmann, Optimizing Measured Signal Intensity: Emission Angle, Incidence Angle and Surface Roughness, Ed. S.Hofmann, Auger-and X-Ray Photoelectron Spectroscopy in Materials Science, Springer Series in Surface Sciences, Volume 49, (2013), Chapter 5, pp.205-257, DOI 10.1007/078-3-642-27381-0_5.
952. K.N.Piakis, D.Q.Yang, E.Shacher, The applicability of angle resolved XPS to the characterization of clusters on surface, Surf.Sci. , 536,1-3, pp.139-144, 2003
953. Katona, L., Bianchi, D., Brenner, J., (...), Betz, G., Werner, W.S.M., Effect of surface roughness on angle-resolved XPS , 2012, Surface and Interface Analysis, 44 (8), pp. 1119-1123
954. Bianchi, D., Katona, L., Brenner, J., (...), Vernesa, A., Werner, W.S.M. Numerical approximation of AR-XPS spectra for rough surfaces considering the effect of electron shadowing ,2015, Surface and Interface Analysis , 44 (8), pp. 1096-1099

Работата:

- 169. S.Wojcicki, G.Mladenov, A new experimental investigation of high-power electron beam, *Vacuum* , v58 (2000) 523-530.**

е цитирана в:

955. C.A.Huang, T.H.Wang, Y.Z.Chang, W.C.Han, C.H.Lee, Tensile behaviour of different pretreated alloy 718 sheet weld with electron beam welding(EBW),

- Science and Technology of Welding and Joining, 13(7), 2008, pp.646-655.
956. C.A.Huang, T.H.Wang, Y.Z.Chang, W.C.Han, C.H.Lee, A study of the galvanic corrosion behavior of Inconel 718 after electron beam welding. Materials Chemistry and Physics, 104 (2-3) 2007, pp.293-300
957. Huang, C.A., Wang, T.T., Han, W.C., Lee, C.H. A study of the galvanic corrosion behavior of inconel 718 after electron beam welding (EBW)(2005) Proceedings - Electrochemical Society, PV 2004-14, pp. 299-310.
958. M.S.Hong, J.Kim, N.Kim, A study of the measurement system using an ultrasonic sensor in electron beam welding, Advanced nondestructive evaluation I,PTS 1 and 2, Proceedings, 321-323, pp.1715-1718, 2006.
959. X.D.Wang, S.Yao, Method of temperature rising velocity and threshold control of electron beam brazing, Journ. of University of Science and Technology Beijing, 12(5) 2005, pp.440-444.
960. C.A.Huang, T.H.Wang, C.H.Lee, W.C.Han, A study of heat affected zone (HAZ) of an Inconel 718 bsheet welded with electron beam welding, Materials sci. and engineering A – structural materials properties microstructure and processing, 398 (1-2) 2005, pp.275-281.
961. E.Koleva, Дисертация за присъждане на научно-образов. степен "доктор" на тема: Статистически методи за моделиране и управление на качеството при електронно-лъчево заваряване", София, 2006г.(научна специалност 02.21.06-Автомат.на инженерния труд и системи за автоматизирано проектиране).
962. Y. Tian, C. Wang, D. Zhu, Modeling of the temperature field during electron beam welding of aluminium alloy by pre-defined keyhole, Key Engineering Materials, v.353-358, 2007, pp. 2011-2014.
963. Chen, Y. , Li, G. , Wang, Predictive of electron beam focus position by metal powder temperature (Conference Paper), Applied Mechanics and Materials, Volume 217-219, 2012, Pages 1779-1785
964. Chen, Y. , Li, G., Varying focus current-extremum temperature of electron beam focus measurement, Hanjie Xuebao/Transactions of the China Welding Institution, Volume 33, Issue 5, May 2012, Pages 103-107
965. Bok, J. , Kolařík, V., Horáček, M., Matějka, M., Matějka, F., Modified knife-edge method for current density distribution measurements in e-beam writers, Journal of Vacuum Science and Technology B: Microelectronics and Nanometer Structures, Volume 31, Issue 3, May 2013, Article number 031603
966. Shen, C., Peng, Y., Wang, K. , Zhou, Q., Measurement of power density distribution and beam waist simulation for electron beam, Radiation Physics and Chemistry, Volume 83, February 2013, Pages 8-14
967. Catalogo Articoli (Spogli Riviste); serials.unibo.it/cgi-ser/start/it/spogli/dss.tcl?fasc...Cached
968. Formation of MoSi₂ by rapid thermal annealing in vacuum of CVD-Mo films ... rapid thermal annealing on the properties of SiNx films", VACUUM, 58(2-3), 2000, pp.
969. Yoshie Koza, Performance of metallic and carbon-based materials under the influence of intense transient energy deposition, Von der Fakultät für Maschinenwesen der Rheinisch-Westfälischen Technischen Hochschule Aachen zur Erlangung des akademischen Grades eines Doktors der Naturwissenschaften genehmigte Dissertation, Tag der mündlichen Prüfung: 27 Februar 2004
970. China font, Research status and development of causing mechanism of deep penetration-Review on EBwelding, Welding and Joining, 2003, pp.5-7, 16

971. China font, Review of EB focal spot and its measurement methods as well as classification of focal spot, Welding and Joining, 2004, 1, pp.5-10
972. Y.Bo, D.Wang, C.Ying, Numerical analysis of ternary alloy molten pool heated by electron gun, Journal of Tsinghua University(Science and Technology) 2003, v.43, 10, pp.1355-1358
973. China font,A system for measuring transverse beam of electron gun, Nuclear Technology, 2004, v.27, 4, pp.259-263.
974. C.A.Huang, T.T.Wang, W.C.Han, C.H.Lee, A study of the galvanic Corrosion Behavior of Inconel 718 after EBW, Materials Science and Engineering, A, V.398, 1-2, 25 May2005, pp.275-281.
975. G.O.Ilevbare, K.J.King, S.R. Gordon, Effect of nitrate on the repassivation potential of alloy 22 in chloride-containing environments, J.Electrochem.Soc.152, 12, pp.B547-B554, 2005.
976. Min Sung Hong, Jong Mim Kim, Noh Yu Kim, A study on the measurement system using ultrasonic sensor in EBW, Key Engineering Materials, v321-323, 2006, pp.1715-1718
977. W.Xuedong, Y.Shun, Method of temperature threshold control of electron beam treatment, Welding Institute, Shanghai Jiatong University, Journ. Sci. Technol., 5, 2005, p.440
978. Shen, C., Peng, Y., Wang, K., Zhou, Q., Measurement of power density distribution and beam waist simulation for electron beam, 2013, Radiation Physics and Chemistry, 83, pp. 8-14
979. Aman Kaur, Colin Ribton and W. Balachandaran, Electron beam characterisation methods and devices for welding equipment, Journal of Materials Processing Technology, 2015, 221, pp. 225-232
980. Bok, J., Horáček, M., Kolařík, V., (...), Matějka, M., Krzyžánek, V., Measurements of current density distribution in shaped e-beam writers, 2016 , Microelectronic Engineering, 149, pp. 117-124
981. Ilevbare, G. O., et al. "Effect of nitrate on the repassivation potential of alloy 22 in chloride-containing environments." *Journal of the Electrochemical Society* 152.12 (2005): B547-B554.
982. GO Ilevbare, KJ King, SR Gordon, HA Elayat... - 2004 - e-reports-ext.llnl.gov, Effect of nitrate on the repassivation potential of alloy 22 in chloride-containing environments.
983. CA Huang, TH Wang, WC Han, CH Lee - 2007 - inis.iaea.org, A study of the galvanic corrosion behavior of Inconel 718 after electron beam welding
984. Huang, C. A., et al. "Tensile behaviour of different pretreated alloy 718 sheets welded with electron beam welding (EBW)." *Science and Technology of Welding & Joining* 13.7 (2008): 646-655.
985. 周琦, 刘方军, and 关桥. "电子束流焦点和测量方法进展及分类." 焊接 1 (2004): 5-10.
986. Hosseinzadeh, Salaheddin. "Unsupervised spatial-resolution enhancement of electron beam measurement using deconvolution." (2016) Vacuum ,123, pp. 179-186.
987. 陈云霞, and 李国华. "电子束变焦—临界温度极值焦点测量法." 焊接学报 33.005 (2012): 103-107.
988. Tan, Y., You, X.-G., Li, J.-Y., Shi, S., Application of electron beam technology in superalloy , 2015 , Cailiao Gongcheng/Journal of Materials Engineering ,43 (12),

pp. 101-112

Работата:

- 171. E.Koleva, K.Vutova, S.Wojcicki and G.Mladenov, Use of radial distribution of the beam current density for evaluation of the beam emittance and brightness, *Vacuum*, v62,N2-3 (2001) 105 – 111**

е цитирана в:

989. Experimental and Design Catalogo Articoli (Spogli Riviste)
990. C. N. Ribton, Development of an electron gun design optimisation methodology, 2017 - Brunel University London
991. Y Peng, H Li, C Shen, S Guo, Q Zhou... , Signal acquisition and scale calibration for beam power density distribution of electron beam welding- IOP Conference Series ..., 2017 - iopscience.iop.org, Series: Materials Science and Engineering. . "4th International Conference on Advanced Composite Materials and Manufacturing Engineering 2017" C. 012099.
992. V Dzharov, D Todorov... Emittance-quantitative characteristic of welding beam quality- researchgate.net
993. E Kawate, M Hain New scatterometer for spatial distribution measurements of light scattering from materials - Measurement Science Review, 2012 - degruyter.com
994. Y Sun, S Liu , A NDT&E Methodology Based on Magnetic Representation for Surface Topography of Ferromagnetic Materials- Non-Destructive Testing, 2016 , intechopen.com
995. 962. MICROSTRUCTURE EVOLUTION OF LARGE-SCALE TITANIUM SLAB INGOT BASED ON CAFE METHOD DURING EBCHM, Liu Q.-L., Li X.-M., Jiang Y.-H., Journal of Materials Research. 2017. T. 32. № 16. C. 3175-3182.
996. Liu, W., Liu, S., Long, L., Ma, Y., Liu, Y., Simulation of temperature field during electron beam melting tungsten based on finite element method, 2014, Xiyou Jinshu/Chinese Journal of Rare Metals, 38(4), c. 666-673

Работата:

- 172. G.Mladenov and S.Sabchevski, Potential distribution and space-charge neutralization in technological intence electron beams-an overview, *Vacuum*, v62, N2-3 (2001) 113 –122**

е цитирана в:

997. D.Ivanov, Prognosticating the technology models at EB welding in Industrial practise, Electron Beam Technology and Applications, Proceedings of Indo-Bulgarian Workshop,19-21 Nov.2003; pp.322-328.
998. L.Agusu, T.Idehara, M.Kamada, T.Hayashi, V.N.Manuilov, O.Dumbrais,K.Yatsui, W.Jiang, Design of cavities for a short pulse, powerful large orbit gyrotron, Intern. Journal of Infrared and millimeter waves, 26(5), 2005, pp.637-655.
999. Gas focusing, Wikipedia, on line encyclopedia (http://en.wikipedia.org/wiki/Gas_focusing)
1000. A.Calik, Elektron Isin Kaynagi Ve Uygulamalari, Makine Teknolojileri Elektronik Dergisi, 2006, pp.51-61
1001. S Tricot - ÉCOLE DOCTORALE SCIENCES ET TECHNOLOGIES LABORATOIRE GREMI
Université d'Orléans (20/10/2008)- 2008 -Comparaison des procédés d'ablation par faisceau laser et par faisceau d'électrons pour la croissance de couches minces-

tel.archives-ouvertes.fr

1002. Обзор результатов использования вторично-эмиссионных сигналов для контроля и управления процессом формирования шва при электронно-лучевой сварке. Пискунов А.Л., Piskunov A.L., Лялин А.Н., Lyalin A.N., Щавлев В.Е., Абдуллин А.А. Вестник Пермского национального исследовательского политехнического университета. Машиностроение, материаловедение. 2012. Т. 14. № 3. С. 82-95.
1003. Д.Н.Трушников, The use of Secondary Emission Signal for Control at EBW, Electrotehnika and Electronika, 5-6, 2012, pp.103-107
1004. Трушников Д.Н., Изучение физических процессов при электронно-лучевой сварке по параметрам вторичного тока в плазме, Физика и химия обработки материалов. 2014. № 5. С. 36-45.
1005. La Agusu, T. Idehara, M. Kamada, T. Hayashi, V. N. Manuilov, O. Dumbrajs, K. Yatsui, W. Jiyang, Design of Cavities for a Short Pulse Powerful Large Orbit Gyrotron, Association Euratom-Tekes Finland Helsinki University of Technology FIN-02015 Huta Finland, International Journal of Infrared and Millimeter Waves (Impact Factor: 0.58). 04/2005; 26(5):637-655. DOI: 10.1007/s10762-005-4975-8
1006. Пискунов, А. Л., & Щавлев, В. Е. Обзор результатов использования вторично-эмиссионных сигналов для контроля и управления процессом формирования шва при электронно-лучевой сварке - esau.tusur.ru
1007. A ÇALIK - Makine Teknolojileri Elektronik Dergisi, 2006 - teknolojikarastirmalar.com. [PDF] Elektron İşin Kaynağı Ve Uygulamaları.
1008. Dmitriy Trushnikov, Elena Krotova, and Elena Koleva, Use of a Secondary Current Sensor in Plasma during Electron-Beam Welding with Focus Scanning for Process Control, Hindawi Publishing Corporation Journal of Sensors, 016, Article ID 5302681, 13 pages <http://dx.doi.org/10.1155/2016/5302681>

Работата:

173. E.Koleva, K.Vutova, G.Mladenov, The role of ingot crucible thermal contact in mathematical modelling of the heat transfer during electron beam melting, *Vacuum*, v62,N2-3 (2001) 189- 196

е цитирана в:

1009. Пл.Запрянов, Дипломна работа: Разработване на технология за електронно-лучево рафиниране на мед, ТУ София-филиал Пловдив, Факултет МУ, катедра МТТ(2002)
1010. R.J.Goldstein, E.R.G.Eckert, W.E.Ible, S.V.Patankar, T.W.Simon, T.H.Kulacki, U.Kortshagen, S.Garrick, Heat transfer-a review of 2001 literature, Internat.J.of Heat and Mass Transfer, 46(2003) 1887-1992
1011. D.M.Maijer, T.Ikeda, S.L.Cockcroft, M.Maeda, R.B.Rogge, Mathematical modeling of residual stress formation in electron beam remelting and refining of scrap silicon for the production of solar grade silicon. Materials sci. and engineering- A -structural materials properties microstructure and processing, 390 (1-2) 2005, pp.198-201.
1012. Experimental and Design Catalogo Articoli (Spogli Riviste)
1013. Donchev, V., Electron beam melting and refining of metals: Computational modeling and optimization, Materials, Volume 6, Issue 10, 2013, Pages 4626-4640
1014. E.M.Sashihara, D.C.de Almeida, O.D.Rigo, J.Otubo, Production technology development of NiTi SMA by electron beam melting-2007, Proceedings of COBEM

- 2007, 19th International Congress of Mechanical Engineering, November, 5 - 9, 2007, Brasília, abcm.org.br
1015. L.Cederquist, C.D.Sorensen, A improved process stability during friction stir welding of 5 cm thick copper canister through shoulder geometry and parameter studies, Sci.technol of welding and joining, v14,2,pp.178-184, 2009
1016. Дипломна работа на Велико Динков Дончев, ф.н. 23960 на тема: „Оптимизация на процеса на електроннольчево топене и рафиниране на метали“ Софийски Университет “Св. Климент Охридски”, Факултет по Математика и Информатика, Магистърска програма “Оптимизация”, направление “Приложна математика” 2013 г.
1017. Donchev, V., Optimization method for electron beam melting and refining of metals (2014) Journal of Physics: Conference Series, 490 (1), art. no. 012211.
1018. Wu, S.P., Liu, D.R., Su, Y.Q., Guo, E.J., Zhang, Y.H. Modeling of microstructure formation of Ti-6Al-4V alloy in a cold crucible under electromagnetic field (2008) Journal of Alloys and Compounds, 456 (1-2), pp. 85-95.
1019. EM Sashihara, DS de Almeida, OD Rigo, J Otubo - 2007 - abcm.org.br, [PDF] PRODUCTION TECHNOLOGY DEVELOPMENT OF NiTi SMA BY ELECTRON BEAM MELTING
1020. Donchev, V. (2015). Non-stationary heat model for electron beam melting and refining—An economic and conservative numerical method. *Applied Mathematical Modelling*. doi: 10.1016/j.apm.2015.08.008, ISSN: 0307-904X, IF: 2.251
1021. Chen, X., Li, X., Jiang, Y., Zhou, R., Effects of drawing velocity and casting temperature on solidification interface of the flat titanium ingot, 2016, Tezhong Zhuzao Ji Youse Hejin/Special Casting and Nonferrous Alloys , 36 (4), pp. 412-415
1022. Donchev, V. Electron beam melting and refining of metals: Computational modeling and optimization , 2013 , Materials, 6 (10), pp. 4626-4640
1023. Liu, Q.-L., Li, X.-M., Jiang, Y.-H., Zhou, R., Effect of process condition on solid liquid interface during continuous solidification process of large scale TC4 titanium alloy slab ingot , 2016, Zhongguo Youse Jinshu Xuebao/Chinese Journal of Nonferrous Metals , 26 (8), pp. 1641-1648
1024. Liu, Q., Li, X., Jiang, Y., Numerical simulation of EBCHM for the large-scale TC4 alloy slab ingot during the solidification process 2017, Vacuum, 141, pp. 1-9
1025. QL Liu, XM Li, YH Jiang , Microstructure evolution of large-scale titanium slab ingot based on CAFE method during EBCHM - Journal of Materials Research, 2017 , 32(16), c. 3175-3182 - cambridge.org
1026. 电子束冷床熔炼钛及钛合金的研究进展
刘千里, 李向明, 蒋业华 - 热加工工艺, 2016 - cqvip.com
1027. 工艺条件对大规格 TC4 扁锭连铸过程固液界面的影响
刘千里, 李向明, 蒋业华 · 周荣 - 中国有色金属学报, 2016 - cqvip.com
1028. 牵拉速度和浇注温度对钛扁锭凝固界面的影响
陈晓夫 · 李向明, 蒋业华 · 周荣 - 特种铸造及有色合金, 2016 - cqvip.com
1029. 大规格钛扁锭凝固过程的非稳态数值计算研究
陈晓夫 · 李向明, 蒋业华 · 周荣 - 热加工工艺, 2016 - cqvip.com
1030. Microstructure evolution of large-scale titanium slab ingot based on cafe method during ebchm, Liu Q.-L., Li X.-M., Jiang Y.-H., Journal of Materials Research. 2017. T. 32. № 16. C. 3175-3182.

1031. Non-stationary heat model for electron beam melting and refining - an economic and conservative numerical method, Donchev V., Applied Mathematical Modelling. 2016. T. 40. № 2. C. 1565-1575
1032. Liu, Q., Li, X., Geng, N., Chen, X., Jiang, Y., Numerical Simulation of Electron Beam Cold Hearth Melting for the Large Scale Titanium Slab Ingot during Solidification Process, 2017, Tezhong Zhuao Ji Youse Hejin/Special Casting and Nonferrous Alloys,37(3), c. 244-249
1033. Liu, Q., Li, X., Jiang, Y., Zhou, R.. Process condition effect on solid liquid interface during continuous solidification process of large scale titanium ingots, Zhongguo Youse Jinshu Xuebao/Chinese Journal of Nonferrous Metals, 25, c. 164-168

Работата:

174. **V.Vassileva, K. Vutova, G. Mladenov, An investigation of heat transfer on crystallisation processes during electron beam melting and casting of metals, Vacuum, v62,N2-3 (2001) 197 – 201**

е цитирана в:

1034. Пл.Запрянов, Дипломна работа: Разработване на технология за електроннолъчево рафиниране на мед, ТУ София-филиал Пловдив, Факултет МУ, катедра МТТ (2002)
1035. R.J. Goldstein, E.R.G. Eckert, W.E. Ible, S.V. Patankar, T.W. Simon, T.H. Kulacki, U. Kortshagen, S. Garrick, Heat transfer-a review of 2001 literature, Internat.J.of Heat and Mass Transfer,46(2003) 1887-1992
1036. M. Beshkova, Z. Zakhariev, M.V. Abrashev, J. Birch, A. Postovit, R. Yakimova, Properties of AlN epitaxial layers on 6H-SiC substrate grown by sublimation in argon, nitrogen and their mixtures, Materials sci. and engineering- B-Solid state materials for advanced technology, 129(1-3)2006,pp.228-231
1037. Chen, J., Fu, Y., Liu, N., Lu, Y., Li, T., Production of 5N copper by directional solidification and electron beam refining, Zhenkong Kexue yu Jishu Xuebao/Journal of Vacuum Science and Technology, Volume 31, Issue 4, August 2011, Pages 495-499
1038. Lee, J.-K.ab, Lee, J.-S.a , Jang, B.-Y.a, Kim, J.-S.a, Ahn, Y.-S.a, Cho, C.-H., Directional solidification behaviors of polycrystalline silicon by electron-beam melting (Conference Paper), Japanese Journal of Applied Physics, Volume 52, Issue 10 PART2, 2013, Article number 10MB09, <http://dx.doi.org/10.7567/JJAP.52.10MB09>
1039. Choi, S.-H., Jang, B.-Y. , Lee, J.-S., Ahn, Y.-S., Yoon, W.-Y., Joo, J.-H., Effects of electron beam patterns on melting and refining of silicon for photovoltaic applications, Renewable Energy, Volume 54, June 2013, Pages 40-45
1040. Дипломна работа на Велико Динков Дончев, ф.н. 23960 на тема: „Оптимизация на процеса на електроннолъчево топене и рафиниране на метали“ Софийски Университет “Св. Климент Охридски”, Факултет по Математика и Информатика, Магистърска програма “Оптимизация”, направление “Приложна математика” 2013 г.
1041. Wang, J., Liang, L., Shao, Y., Guan, Q.-F. Analysis of crater forming on aluminum surface modified by high current pulsed electron beam (2009) Jinshu Rechuli/Heat Treatment of Metals, 34 (9), pp. 32-36.
1042. Liu, W., Liu, S., Long, L., Ma, Y., Liu, Y., Simulation of temperature field during electron beam melting tungsten based on finite element method, 2014, Xiyou

- Jinshu/Chinese Journal of Rare Metals, 38 (4), pp. 666-673
1043. E.M.Sashihara, D.S. de Almeida, O.D.Rigo, J.Otubo, "Production technology development of NiTi SMA by electron beam melting", Proceedings of COBEM 2007, 19th International Congress of Mechanical Engineering, November, 5-9, 2007, Brazil.
1044. 陈洁, et al. "定向凝固结合电子束制备高纯铜的研究." *真空科学与技术学报* 31.4 (2011): 495-499.
1045. 刘文胜, 刘书华, 龙路平, 马运柱, & 刘业. (2014). 基于有限元法对电子束熔炼提纯钨过程的温度场模拟. *稀有金属*, 38(4).

Работата:

175. K.Vutova, G.Mladenov, Why light ions in future ion lithography? , *Vacuum*, v62, N2-3 (2001) 273 – 278.

е цитирана в:

1046. D. Ivanov, Prognosticating the technology models at EB welding in Industrial practise, Electron Beam Technology and Applications, Proceedings of Indo-Bulgarian Workshop,19-21 Nov.2003; pp.322-328.
1047. Y. Gonin, F. Munnik, F. Benninger, S. Mikhailov, Creating sub-surface channels in PMMA with ion beam lithography in only one step. *Applied Surface Science*, 217, 2003, pp. 289-293.
1048. L. Marot, F. Munnik, S. Mikhailov, Direct writing of microtunnels using proton beam micromachining, *Appl.Surf. Sci.*, 252(20), 2006, pp.7343-7346.
1049. S. Mazerole, R. Rabe, T. Varidel, A. Bergander, J. M. Breguet, Precision Manipulators for the micro structuring of polymers by ionic beams, *Infosurfaces* 2004, 4e colloque Franco-Suisse, 7-8 September 2004, La Locle, Switzerland, pp.10-14

Работата:

176. K. Vutova, G. Mladenov, T. Tanaka, K. Kawabata, Photoelectron signal simulation from textured samples covered by a thin film, *Vacuum*, v62, N2-3 (2001) 297 – 302.

е цитирана в:

1050. Zemek, J. Electron spectroscopy of corrugated solid surfaces (2010) *Analytical Sciences*, 26 (2), pp. 177-186.
1051. K. Olejnik, J. Zemek. Applicabilityof magic angle for angle-resolved X-ray photoelectron spectroscopy os corrygated SiO₂/Si surfaces. Monte Carlo calculation, *Surf. Sci.* 602(14) 2008, pp. 2581-2586.
1052. J. Zemek, K. Olejnik, P. Klapetek, Photoelectron spectroscopy from randomly corrugated surfaces, *Surface Sci.*, 602(7) 2008, pp. 1440-1446.
1053. S. Oswald, Simulation of rough nanostructured surfaces for ARXPS, *Surf. Sci.*, 602(1), 2008, pp.291-299.
1054. S. Oswald, F. Oswald, Computer simulation of angle-resolved x-ray photoelectron spectroscopy measurements for the study of surface and interface roughness, *Journ.Appl.Phys.* 100(10) Art.104504, 2006, DOI: 10.1063/1.2386938
1055. J. Zemek, Electron transport at solid surfaces, *Acta Physica Slovaca*, 56(4), 2006, pp. 543-553.
1056. K. Olejnik, J. Zemek, W.S.M. Werner, Angular-resolved photoelectron spectroscopy of corrygated surfaces, *Surf.Sci.* 595 (1-3)2005, pp.212-222.

1057. S. Hofmann, Optimizing Measured Signal Intensity: Emission Angle, Incidence Angle and Surface Roughness, Ed. S.Hofmann, Auger-and X-Ray Photoelectron Spectroscopy in Materials Science, Springer Series in Surface Sciences, Volume 49, (2013), Chapter 5, pp.205-257, DOI 10.1007/078-3-642-27381-0_5.
1058. Piyakis, K.N., Yang, D.-Q., Sacher, E. The applicability of angle-resolved XPS to the characterization of clusters on surfaces(2003) Surface Science, 536 (1-3), pp. 139-144.
1059. Simonds, B.J., Palekis, V.,Van Devener, B.,Ferekides, C., Scarpulla, M.A.Surface stoichiometry of pulsed ultraviolet laser treated polycrystalline CdTe, 2014, Journal of Applied Physics, 116 (1), 013506
1060. M. Zier, "Untersuchungen zu Schichtwachstum und Grenzflächen an Ta-basierten dünnschichten mittels XPS", Dissertation, IFW, Dresden, (2007).
1061. A. Artemenko, A.Choukourov, D.Slavinska, H.Biederman, "Influence of surface roughness on results of XPS measurements", WDS'09 Proceedings of Contributed Papers, Part III, 175-181, (2009).
1062. Brian J. Simonds, Vasilios Palekis, Brian Van Devener, Christos Ferekides and Michael A. Scarpulla, Surface stoichiometry of pulsed ultraviolet laser treated polycrystalline CdTe, J. Appl. Phys. 116, 013506 (2014); <http://dx.doi.org/10.1063/1.4887079>
1063. http://ticri.univlorraine.fr/Wicri/France/corpus/JaponFra/JaponFraV1/Site/fr/Main/E_xploration/andNot.php?k1=Structure%20surface&i1=FC03.fr.i&k2=Sven%20%20B erg&i2=Author.i
1064. <http://www.chemweb.com/articles/0042207X/00620002>
1065. J Zemek, K Olejník, P Klapetek - 2008 - muni.cz, Photoelectron spectroscopy from randomly corrugated surfaces
1066. S Oswald - Surface Science, 2008 - adsabs.harvard.edu, Simulation of rough nanostructured surfaces for ARXPS.
1067. Bianchi, D., Katona, L., Brenner, J., (...), Werner, W.S.M., Betz, G., Surface roughness, waviness, and shape induced effects in angle-resolved XPS, 2012, Surface and Interface Analysis, 44(8), c. 1096-1099

Работата:

- 177. G.Mladenov, K.Vutova, I.Raptis, P.Argitis, I.Rangelov, Simulation of Latent image formation for ion beam projection lithography. *Microelectronic Engineering*, 57(2001) pp.335-342.**

е цитирана в:

1068. Flagello, Donis G. "Fast photoresist model." U.S. Patent Application 13/200,668.
1069. Flagello, D. G. (2014). U.S. Patent No. 8,910,093. Washington, DC: U.S. Patent and Trademark Office.
1070. Flagello, Donis G. "Fast photoresist model." U.S. Patent No. 8,910,093. 9 Dec. 2014.

Работата:

- 178. K.Vutova, G.Mladenov. Sensitivity, contrast and development process in electron and ion lithography, *Microelectronic Engineering*, 57-58(2001) pp.349-353.**

е цитирана в:

1071. К.В.Каменова, Дипломна работа : D-оптимално планиране, статистически анализ и оптимизация при електронно-льчева литография, ХМТУ-София, Катедра Автоматизация на производството, (2003)
1072. В.Р.Илиев, Дипломна работа : Подобряване на качеството на процеса електронно-льчева литография по метода на Тагучи, ХМТУ-София, Катедра Автоматизация на производството, (2003)
1073. M.J.Toohey, Electrodes for nanodot-based gas sensors, Sensors and actuators B-Chemical, 105(2), 2005, pp.232-250.
1074. N.Tsikrikas, G.P.Patsis, I.Raptis, N.Glezos, EBL Simulation on EUV Mask Blank, Proceedings of EBT 2006 Int. Conference(Varna 5-10 June 2006, vol.2, Publ.2006, IE BAS, Sofia , pp.44-47.
1075. H.S. Uhm, High accelerating-gradient accelerator based on magnetic field decay mechanism, DOI: 10.1109/PAC.1991.165031 Conference: Particle Accelerator Conference, 1991. Accelerator Science and Technology, Conference Record of the 1991 IEEE

Работата

179. K.Vutova, G.Mladenov, I.Raptis. Determination of the radiation efficiency, contrast and sensitivity in electron and ion lithography. Proc. of the Intern. Conf. of Simulation of Semiconductor Processes and Devices, SISPAD 2001, September 5-7, Athens, Greece, Proceedings volume: D.Tsoukalas, C.Tsamis (eds),Simulation of Semiconductor Processes and Devices 2001, Springer Wien, NY, pp.440-443.

е цитирана в:

1076. Curriculum Vitae &of Ioannis Raptis, October 2010, PUBLICATIONS IN INTERNATIONAL JOURNALS, [B10]

Работата:

180. K.Vutova, G.Mladenov, T.Tanaka and K.Kawabata, Photoelectron signal simulation from textured samples with modified surface composition, Surf.and Interface Analysis, 34,2002,597-600

е цитирана в:

1077. Zemeck, J.Electron spectroscopy of corrugated solid surfaces, (2010) Analytical Sciences, 26 (2), pp. 177-186.
1078. S.V.Merzlikin, Tolkachev, N.N., Strunskus t., Witte G., Glogowski T., Wol C., Grunert W, Resolving the depth coordinate in photoelectron spectroscopy-Comparison of exitation energy variations.., Surf.Sci., 602 (3), pp. 755-767, 2008
1079. Simonds, B.J., Palekis, V.,Van Devener, B.,Ferekides, C., Scarpulla, M.A. Surface stoichiometry of pulsed ultraviolet laser treated polycrystalline CdTe, 2014, Journal of Applied Physics, 116 (1), 013506
1080. Brian J. Simonds, Vasilios Palekis, Brian Van Devener, Christos Ferekides and Michael A. Scarpulla, “Surface stoichiometry of pulsed ultraviolet laser treated polycrystalline CdTe”, content.lib.utah.edu-
<http://dx.doi.org/10.1063/1.4887079>

Работата:

182. M. Beshkova, G. Beshkov, M. Marinov, D. Bogdanov, G. Mladenov, T. Tanaka and K. Kawabata, Rapid thermal annealing of Co_nN, *Materials and Manufacturing processes* 16(4), 531-540 (2001).

е цитирана в:

1081. S.F.Matar, A.Houari, M.A.Belkhir, Ab initio studies of magnetic properties of cobalt and tetracobalt nitride Co₄N, *Phys.Rev. B Condensed Mat.* 245109 (2007) 7pages.

Работата

183. G. Mladenov, K. Vutova, G. Djanovsky, E. Koleva, V. Vassileva, D. Mollov, Electron beam deposition of high temperature superconducting thin films, *NATO Science Series II. Mathematics, Physics and Chemistry-v.88 "Emerging Applications of Vacuum -Arc-Produced Plasma, Ion and Electron Beams", Kluwer Academic Publ.,pp.163-171 (2002)*

е цитирана в:

1082. Efim Oks, Ian G. Brown, Emerging Applications of Vacuum-Arc-Produced Plasma, Ion ...<https://books.google.bg/books?isbn=1402010664>, 2003 - Science

Работата:

187.K.Vutova, G.Mladenov, T.Tanaka, K.Kawabata, I.W.Rangelov, Electron and Ion Beam Lithography Simulation for Subquarter-Micron Patterns. *Proc.7-th Internat. Confer.on EB technologies,1-6June,Varna (2003)469-481*

е цитирана в:

1083. К.В.Каменова, Дипломна работа : D-оптимално планиране, статистически анализ и оптимизация при електронно-лъчева литография, ХМТУ-София, Катедра Автоматизация на производството, (2003)
1084. В.Р.Илиев, Дипломна работа : Подобряване на качеството на процеса електронно-лъчева литография по метода на Тагучи, ХМТУ-София, Катедра Автоматизация на производството, (2003)
1085. Munawar Iqbal, <http://prr.hec.gov.pk/chapters/2312-8.pdf>, (2006).

Работата

188.K.Vutova, G.Mladenov, A.Olziersky, Simulation of exposure and development at electron beam lithography of high temperature superconducting samples. *Proc.7-th Internat. Confer. on EB technologies, 1-6June,Varna (2003)pp492-504.*

е цитирана в:

1086. Curriculum Vitae &of Ioannis Raptis, October 2010, PUBLICATIONS IN INTERNATIONAL JOURNALS, [B19]

Работата:

201.A.Olziersky, K.Vutova, G.Mladenov, I.Raptis, T.Donchev, Electron beam lithography simulation on superconducting substrates, *Superconductivity Sci.Technol.17, 2004, p.881- p.890.*

е цитирана в:

1087. P.Blake, W.Ahn, D.K.Roper, Enhanced uniformity in Arrays of electroless plated spherical Gold nanoparticles using Tin presensitization, *Langmuir*, 26(3), 2010,

- pp.1533-1538.
1088. M.Sirena, S.Matzen, N.Bergeal, J.Lesueur, G.Faini, R.Bernard, J.Briatico, D.G.Crete, Annealing of ion irradiated high T-C Josephson junction studied by numerical simulation, *J.Appl.Physics*, 105(2) Art.N o23910, 2009, DOI 10.1063/1.3068178
1089. M.Sirena, N.Bergeal, J.Lesueur, G.Faini, R.Bernard, J.Briatico, D.G.Crete,J.P. Contour, Study of optimization of ion irradiated high T-c Josephson junction by Monte Carlo simulations, *J.Appl.Phys.* 101(12)2007, Art.N 123925, 2007, DOI10.1063/1.2737386.
1090. M Sirena, S Matzen, N Bergeal, J Lesueur, G Faini, R Bernard, J Briatico, D Crété, "Annealing Effect on the Reproducibility of Josephson Junctions Made by Ion Irradiation", 8th European Conference on Applied Superconductivity, (2007), Journal of Physics: Conference Series Vol. 97, September 16-20, 2007, Brussels, Belgium, pp. 430-435
1091. Curriculum Vitae & of Ioannis Raptis, October 2010, PUBLICATIONS IN INTERNATIONAL JOURNALS, [A44]
1092. M Sirena, S Matzen, N Bergeal, J Lesueur, G Faini... - 2009 - inis.iaea.org; Annealing of ion irradiated high TC Josephson junctions studied by numerical simulations. *Journal of Applied Physics*, 105(2),023910
1093. P Blake, DK Roper, DK Roper, W Ahn -: the ACS journal of surfaces and ..., 2010 - elibrary.ru; Enhanced uniformity in arrays of electroless plated spherical gold nanoparticles using tin presensitization.

Работата

203. Е.Колева, К.Вутова, Г.Младенов. Определяне на дозата за експониране за получаване на напълно проявен профил на резиста при електронна литография. Нац. Конференция с международно участие "Електроника 2004" 21-22 Май 2004, Доклади, Изд.СЕЕС, стр 87-92.

е цитирана в:

1094. Н.С.Спасова, Дипломна работа "Подобряване на качеството на процеса електронно-лъчева литография", ХМТУ-София, Център по Европейско качество, (2008).
1095. В.Н.Стоянова, Дипломна работа „Повишаване на качеството на профила на резиста при електроннолъчева литография чрез статистически методи и оптимизация”, ХТМУ-София, Център по Европейско качество, юли (2010).

Работата

204. K.Vutova, G.Mladenov, T.Tanaka, K.Kawabata, "Simulation of the energy absorption and the resist development at sub-150 nm ion lithography", Microelectronic Engineering, 78-79, 533-539, (2005).

е цитирана в:

1096. M.Alexandrova, "Simulation of the 100-40 nm transistor gate formation process by EB lithography for 950K PMMA – Si substrate system", Proc. International Conference on Modern Problems in Physics of Surfaces and Nanostructures, p.52, Yaroslavl, Russia, (2010)
1097. Bluhm H., Han B., Chmielewski A.G., Von Dobeneck D., Gohs U., Mattausch G., Morgner H., Reichmann A., Röder O., Zywitzki O., Gstöttner J., Koops H.W.P., Schulz S.W., Wenzel B. Electron Beam Devices for Materials Processing and

- Analysis, In book: Vacuum Electronics: Components and Devices2008. C. 155-230.
 1098. Curriculum Vitae &of Ioannis Raptis, October 2010, PUBLICATIONS IN INTERNATIONAL JOURNALS, [B31]

Работата:

- 205. E.Koleva, G.Mladenov, Electron Beam lithography developed resist profile improved by quality analysis, *Vacuum*, v.77, No4, pp.361-370, 2005.**

е цитирана в:

1099. D'Urso, G., Longo, M., Ravasio, C., MacCarini, G., Characterization of an EBL system: The influence of process parameters on thickness resist and engraving shapes (Conference Paper), AIP Conference Proceedings, Volume 1315, 2010, Pages 1243-1248
1100. Zhang, H., Komori, T., Zhang, Y., Yin, Y., Hosaka, S., Simulation of fine resist profile formation by electron beam drawing and development with solubility rate based on energy deposition distribution, Japanese Journal of Applied Physics, Volume 52, Issue 12, December 2013, Article number 126504
1101. O. Rosli - dspace.unimap.edu.my, Can machines think? Revisiting the question-
1102. ~~Sutikno~~, Optimization and characterization of electron beam resist using atomic force microscope, Jurnal Pendidikan Fisika Indonesia 5 (2009) 67-74, ISSN: 1693-1246
1103. Truong, C.D., Tran, D.H., Hoang, V.C., Le, T.T. A butterfly MMI waveguides based polarization beam splitter etched on SOI platform , 2014 , IEEE 5th International Conference on Communications and Electronics, IEEE ICCE 2014 , 6916743, pp. 425-429
1104. Bluhm H., Han B., Chmielewski A.G., Von Dobeneck D., Gohs U., Mattausch G., Morgner H., Reichmann A., Röder O., Zyowitzki O., Gstöttner J., Koops H.W.P., Schulz S.W., Wenzel B. ELECTRON BEAM DEVICES FOR MATERIALS PROCESSING AND ANALYSIS, В книге: Vacuum Electronics: Components and Devices2008. C. 155-230.
1105. <http://www.chemweb.com/articles/0042207X/00770004>
1106. Lu, Z., Frey, D.M., Merkh, T., (...), Washington, M.A., Lu, T.-M., Resistivity of epitaxial copper nanolines with trapezoidal cross-section, 2016, Thin Solid Films ,599, pp. 187-193
1107. M Sutikno, H Uda, Z Azhar, Z Jamal Optimization of negative tone Photoresist ma-N 2403 and ma-N 2405 for Nanolithography process- 2006 - dspace.unimap.edu.my

Работата:

- 206. I.A. Krinberg, G. Mladenov, Formation and expansion of the plasma column under electron-beam interaction, *Vacuum*, v.77, No4, pp.407-412, 2005.**

е цитирана в:

1108. A.Majumder, G.K.Sahu, K.B.Thakur, V.K.Mago, Electron beam generated copper plasma, formation and cross field propagation, Journ. Physics D-Applied physics, 43(7)2010, Art.075204, DOI10.1088/0022-3727/43/7/075204
1109. Ho, C.Y., Wen, M.Y., Tsai, Y.H., Ma, C., Potential and electron density calculated for freely expanding plasma by an electron beam, Journal of Applied Physics, Volume 110, Issue 1, 1 July 2011, Article number 013306
1110. Trushnikov, D., Belenkiy, V., Shchavlev, V. , Piskunov, A. , Abdullin, A., Plasma charge current for controlling and monitoring electron beam welding with beam oscillation, Sensors (Switzerland), Volume 12, Issue 12, December 2012, Page 20121214

1111. Trushnikov, D.N., Belen'kii, V.Y., Investigation of the formation of the secondary current signal in plasma in electron beam welding with oscillations of the electron beam, Welding International, Volume 27, Issue 11, November 2013, Pages 877-880
1112. Trushnikov, D.N., Using the wavelet analysis of secondary current signals for investigating and controlling electron beam welding, Welding International, Volume 27, Issue 6, June 2013, Pages 460-465
1113. А.Н.Лялин, С.Е.Дударев, В.Я.Беленький, Д.Н.Трушников, Особенности ЭЛС со сквозным проплавлением и контролем формирования обратного валика сварного шва, Доклады международной научно-технической конференции "Технология и оборудование ЭЛС-2011" (23-26 мая 2011, Санкт Петербург) стр.280-стр.285, ISBN 978-5-7422-3027-4.
1114. Siemens, Eduard. Proceedings of 1st International Conference on Applied Innovations in IT. Hochschule Anhalt, 2013.
1115. J.Huang, The characterization and modelling of porosity formation in EB welded Titanium alloys, Schoolof Metallurgy and Materials, University of Birmingham-for the degree of Doctor of philosophy, Sept.2011
1116. ЗАВИСИМОСТЬ ВТОРИЧНО-ЭМИССИОННОГО СИГНАЛА ОТ УДЕЛЬНОЙ МОЩНОСТИ ПРИ ЭЛС С БОЛЬШОЙ МОЩНОСТЬЮ С ОСЦИЛЛЯЦИЕЙ ЛУЧА, Портнов Н.С., Зыков В.В., Варушкин С.В., Трушников Д.Н., Master's Journal. 2012. № 1. стр. 30-39.
1117. ОБЗОР РЕЗУЛЬТАТОВ ИСПОЛЬЗОВАНИЯ ВТОРИЧНО-ЭМИССИОННЫХ СИГНАЛОВ ДЛЯ КОНТРОЛЯ И УПРАВЛЕНИЯ ПРОЦЕССОМ ФОРМИРОВАНИЯ ШВА ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, Пискунов А.Л., Лялин А.Н., Щавлев В.Е., Абдуллин А.А., Вестник Пермского национального исследовательского политехнического университета. Машиностроение, материаловедение. 2012. Т. 14. № 3. С. 82-95.
1118. ПРИМЕНЕНИЕ ВЕЙВЛЕТ-АНАЛИЗА СИГНАЛОВ ВТОРИЧНОГО ТОКА ДЛЯ ИССЛЕДОВАНИЯ И КОНТРОЛЯ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКИ, Трушников Д.Н., Сварочное производство. 2012. № 4. С. 15-21.
1119. ИССЛЕДОВАНИЕ ФОРМИРОВАНИЯ СИГНАЛА ВТОРИЧНОГО ТОКА В ПЛАЗМЕ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ С ОСЦИЛЛЯЦИЕЙ ЭЛЕКТРОННОГО ПУЧКА, Трушников Д.Н., Беленький В.Я., Сварочное производство. 2012. № 11. С. 9-13.
1120. ВЗАИМОСВЯЗЬ ПАРАМЕТРОВ ВТОРИЧНОГО ТОКА РАЗРЯДА В ПЛАЗМЕ С ФОКУСИРОВКОЙ ПУЧКА ПРИ ЭЛС Портнов Н.С., Косьянов А.В., Варушкин С.В., Абдуллин А.А., Master's Journal. 2013. № 1. С. 29-36.
1121. USING THE WAVELET ANALYSIS OF SECONDARY CURRENT SIGNALS FOR INVESTIGATING AND CONTROLLING ELECTRON BEAM WELDING, Trushnikov D.N., Welding International. 2013. T. 27. № 6. С. 460-465.
1122. INVESTIGATION OF THE FORMATION OF THE SECONDARY CURRENT SIGNAL IN PLASMA IN ELECTRON BEAM WELDING WITH OSCILLATIONS OF THE ELECTRON BEAM, Trushnikov D.N., Belen'kii V.Y., Welding International. 2013. T. 27. № 11. С.877-880.
1123. ИССЛЕДОВАНИЕ ПРОЦЕССОВ В ОБЛАСТИ ВЗАИМОДЕЙСТВИЯ КОНЦЕНТРИРОВАННОГО ЭЛЕКТРОННОГО ПУЧКА С МЕТАЛЛОМ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, Беленький В.Я., Трушников Д.Н. Вестник Пермского научного центра УрО РАН. 2013. № 3. С.109-120.
1124. РЕКОНСТРУКЦИЯ ФОРМЫ КАНАЛА ПРОПЛАВЛЕНИЯ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ С ОСЦИЛЛЯЦИЕЙ ЛУЧА, Трушников

- Д.Н., Сварка и диагностика. 2014. № 1. с.32-37.
1125. Д.Н.Трушников, Е.Л.Кротова, В.Я.Беленький, К.А.Рассохин, Вейвлет-анализ сигналов вторичного тока в плазме над областью электроннольчевой сварки, ДокладыМеждународной научно-технической конференции „Технологий и оборудования ЭЛС-2011“ (Санкт Петербург, 23-26 мая 2011) стр.271-279
1126. H. Bluhn et al, EBdevices for material processing and analysis, in Vacuum electronics : component and devices, Ed. J.Elchmeier, M.Thumm, Springer Berlin, Haidelberg, N.Y., ISBN 978-3-540-71928, 2008
1127. Jingshan, Binggang, Изследване кратера при дълбоко проникване на електронен лъч при ЕЛЗ, Заваряване, 2007, cqvip.com
1128. D.N. Trushnikov, The use of secondary emission signal for control of EBW, Elektrotehnika I Elektronika, 5-6, 2012, pp.103-107
1129. Трушников, Д. Н., В. Я. Беленький, Исследование формирования сигнала вторичного тока в плазме при электронно-лучевой сварке с осцилляцией электронного пучка, Сварочное производство. - 2012. - № 11. - С. 9-14
1130. ИЗУЧЕНИЕ ФИЗИЧЕСКИХ ПРОЦЕССОВ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ ПО ПАРАМЕТРАМ ВТОРИЧНОГО ТОКА В ПЛАЗМЕ Трушников Д.Н.Физика и химия обработки материалов. 2014. № 5. С. 36-45.
1131. 电子束深熔焊匙孔的研究现状
1132. 何景山, 张秉刚, 张亚斌, 吴庆生 - 焊接, 2007 - cqvip.com
1133. ВТОРИЧНО-ЭМИССИОННЫЙ СИГНАЛ ИЗ ЗОНЫ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКИ И ЕГО СВЯЗЬ С ГЕОМЕТРИЧЕСКИМИ ПАРАМЕТРАМИ СВАРНОГО ШВА Трушников Д.Н., Беленький В.Я., Зыков В.В. Интеллектуальные системы в производстве. 2011. № 2. С. 214-221.
1134. Ho, C.-Y., Wu, W.-C. Ionic distribution in plasma for the process of electron-beam physical vapor deposition , 2014, Applied Mechanics and Materials , 597, pp. 153-156
1135. <http://www.chemweb.com/articles/0042207X/00770004>
1136. Gasper, P.J., Apelian, D., Electron-Beam Atomic Spectroscopy for In Situ Measurements of Melt Composition for Refractory Metals: Analysis of Fundamental Physics and Plasma Models, Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science 46 (2), 2014, pp. 719-732
1137. 何景山 et al. 电子束深熔焊匙孔的研究现状 //焊接. – 2007. – №. 6. – С. 28-30.
1138. Trushnikov D. N. Using the wavelet analysis of secondary current signals for investigating and controlling electron beam welding //Welding International. – 2013. – Т. 27. – №. 6. – С. 460-465.
1139. J Huang - 2012 - ethos.bl.uk, The characterisation and modelling of porosity formation in electron beam welded titanium alloys.
1140. J Huang - 2012 - etheses.bham.ac.uk. THE CHARACTERISATION AND MODELLING OF POROSITY FORMATION IN ELECTRON BEAM WELDED TITANIUM ALLOYS
1141. SHCHERBAKOV, A., MIHAYLOV, M. G., GEORGIEVA, K. E., & NIKOLAEVICH, T. D. (2014). WELD FORMATION CONTROL AT ELECTRON BEAM WELDING WITH BEAM OSCILLATIONS. Вестник Сибирского государственного аэрокосмического университета им. академика МФ Решетнева, (3 (55)).
1142. Trushnikov, D.N., Belenkiy, V.Y.,The model of formation of a non-self-sustained discharge in the plasma in electron beam welding , 2017, Welding International ,31

- (6), pp. 493-497
1143. Lee, Y.C., Chen, B.C., Ho, C.Y., Wen, M.Y., Tsai, Y.H. ,Nonlinear Characteristics of Plasma Induced by an Electron Beam Irradiating the Target Material , 2016, IEEE Transactions on Plasma Science 44 (12), 7728086, pp. 3172-3178
1144. Dmitriy N. Trushnikov, Ekaterina S. Salomatova, Igor I. Bezukladnikov, Igor L. Sinani, and K. P. Karunakaran, Modeling the Influence of the Penetration Channel's Shape on Plasma Parameters When Handling Highly Concentrated Energy Sources, Hindawi, Advances in Materials Science and Engineering Volume 2017, Article ID 2435079, 8 pages, doi.org/10.1155/2017/2435079
1145. ЗАВИСИМОСТЬ ВТОРИЧНО-ЭМИССИОННОГО СИГНАЛА ОТ УДЕЛЬНОЙ МОЩНОСТИ ПРИ ЭЛС С БОЛЬШОЙ МОЩНОСТЬЮ С ОСЦИЛЛЯЦИЕЙ ЛУЧА, Портнов Н.С., Зыков В.В., Варушкин С.В., Трушников Д.Н. Masters Journal. 2012. № 1. С. 30-39.
1146. WELD FORMATION CONTROL AT ELECTRON BEAM WELDING WITH BEAM OSCILLATIONS, Trushnikov D.N., Koleva E.G., Shcherbakov A.V., Вестник Сибирского государственного аэрокосмического университета им. академика М.Ф. Решетнева. 2014. № 3 (55). С. 224-230.
1147. МОДЕЛЬ ФОРМИРОВАНИЯ НЕСАМОСТОЯТЕЛЬНОГО РАЗРЯДА В ПЛАЗМЕ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, Трушников Д.Н., Беленъкий В.Я., Сварочное производство. 2016. № 7. С. 9-13.
1148. NONLINEAR CHARACTERISTICS OF PLASMA INDUCED BY AN ELECTRON BEAM IRRADIATING THE TARGET MATERIAL, Lee Y.C., Chen B.C., Ho C.Y., Tsai Y.H., Wen M.Y. IEEE Transactions on Plasma Science. 2016. Т. 44. № 12. С. 3172-3178.

Работата:

- 207. V.Vassileva, G.Mladenov, K.Vutova, T.Nikolov and E.Georgieva, Oxygen removal during EB drip melting and refining, Vacuum, v.77, №4, pp.429-436, 2005.**

е цитирана в:

1149. S.K.Sadmezaad, E.Ahmady, M.Malekzadeh, Mechanism of reaction of molten NiTi with EBM graphite crucible, Materials Sci.and Technology, 25(6)2009, pp.699-706
1150. G.S.Choi, J.W.Lim, N.R.Muniratham, I.H.Kim, J.S.Kim, Preparation of 5NGrade Tantalum by electron beam melting, Journal of alloys and compounds, 469(1-2)2009, pp. 298-303
1151. Oh, J.-M., Lee, B.-K., Park, H.-K., Lim, J.-W., Preparation and purity evaluation of 5N-grade ruthenium by electron beam melting, Materials Transactions, Volume 53, Issue 9, 2012, Pages 1680-1684
1152. Choi, S.-H.a, Jang, B.-Y.a , Lee, J.-S.a, Ahn, Y.-S.a, Yoon, W.-Y.b, Joo, J.-H., Effects of electron beam patterns on melting and refining of silicon for photovoltaic applications, Renewable Energy, Volume 54, June 2013, Pages 40-45
1153. Oh, J.-M., Lee, B.-K., Choi, G.-S.b, Kim, H.-S.a, Lim, J.-W., Preparation of ultrahigh purity cylindrical tantalum ingot by electron beam drip melting without sintering process, Materials Science and Technology (United Kingdom), Volume 29, Issue 5, May 2013, Pages 542-546
1154. Roh, K.-M., Suh, C.-Y.a, Oh, J.-M.a, Kim, W.a, Kwon, H.a, Lim, J.-W., Comparison of deoxidation capability for preparation of low oxygen content powder from TiNi alloy scraps, Powder Technology, Volume 253, February 2014, Pages 266-269

1155. Zhang, T. , Shang, Z., Chen, M., He, J., Lv, B., Wang, X., Xiong, X., High-purity nickel prepared by electron beam melting: Purification mechanism (Conference Paper), Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, Volume 45, Issue 1, February 2014, Pages 164-174
1156. Дипломната работа на Велико Динков Дончев, ф.н. 23960 на тема: „Оптимизация на процеса на електронноЛъчево топене и рафиниране на метали“ Софийски Университет “Св. Климент Охридски”, Факултет по Математика и Информатика, Магистърска програма “Оптимизация”, направление “Приложна математика” 2013 г.
1157. H.Bluhn et al, EBdevices for material processing and analysis,in Vacuum electronics :component and devices, Ed. J.Elchmeier, M.Thumm, Springer Berlin, Haidelberg, N.Y., ISBN 978-3-540-71928, 2008
1158. E.M.Sashihara, D.S. de Almeida, O.D.Rigo, J.Otubo, “Production technology development of NiTi SMA by electron beam melting”, Proceedings of COBEM 2007, 19th International Congress of Mechanical Engineering, November, 5-9, 2007, Brazil.
1159. <http://www.chemweb.com/articles/0042207X/00770004>
1160. Li, G., Tian, F., Li, L., Tian, W., Li, X., Application of hydrogen plasma arc melting technique on refining refractory metals, 2015 , Xiyou Jinshu Cailiao Yu Gongcheng/Rare Metal Materials and Engineering , 44 (3), pp. 775-780
1161. Oh, J.-M., Lee, B.-K., Park, H.-K., Lim, J.-W., Preparation and purity evaluation of 5N-grade ruthenium by electron beam melting, Materials Transactions ,53 (9), pp. 1680-1684
1162. Sankar, M., Mirji, K. V., Prasad, V. V., Baligidad, R. G., & Gokhale, A. A. (2015). Purification of Niobium by Electron Beam Melting. High Temperature Materials and Processes 35(6), c. 621-627.
1163. EM Sashihara, DS de Almeida, OD Rigo, J Otubo - 2007 - abcm.org.br, [PDF] PRODUCTION TECHNOLOGY DEVELOPMENT OF NiTi SMA BY ELECTRON BEAM MELTING- researchgate.net
1164. Donchev, V. Non-stationary heat model for electron beam melting and refining - An economic and conservative numerical method , 2016 , Applied Mathematical Modelling , 40 (2), pp. 1565-1575
1165. INVESTIGATION OF TANTALUM RECYCLING BY ELECTRON BEAM MELTING, Koleva E., Munirathnam N., Amalnerkar D.P., Tanaka T., Metals. 2016. Т. 6. № 11. С. 287.

Работата:

209.E.Koleva, G.Mladenov, Signal formation analysis of the electron beam current distribution measurements, Vacuum, v.77, No4, pp457-462, 2005.

е цитирана в:

1166. H.Bluhn et al, EBdevices for material processing and analysis,in Vacuum electronics :component and devices, Ed. J. Elchmeier, M.Thumm, Springer Berlin, Haidelberg, N.Y., ISBN 978-3-540-71928, 2008
1167. <http://www.chemweb.com/articles/0042207X/00770004>
1168. Hosseinzadeh, S. (2016). Unsupervised spatial-resolution enhancement of electron beam measurement using deconvolution. Vacuum. 123, pp. 179-186
1169. USE OF A SECONDARY CURRENT SENSOR IN PLASMA DURING ELECTRON-BEAM WELDING WITH FOCUS SCANNING FOR PROCESS CONTROL, Trushnikov D., Krotova E., Journal of Sensors. 2016. Т. 2016. С. 5302681.

Работата:

210. Vassileva V., Vutova K., Georgieva E., Mladenov G., *Investigation of refining processes during EB regeneration of reactive metals of group IV B*, Proc DAE-BRNS Symp Electron Beam Technol and Appl SEBTA 2005, Sept 2005, Mumbai, India, pp 295-306.

е цитирана в:

1170. Дипломна работа на Велико Динков Дончев, ф.н. 23960 на тема: „Оптимизация на процеса на електроннольчево топене и рафиниране на метали“ Софийски Университет „Св. Климент Охридски“, Факултет по Математика и Информатика, Магистърска програма „Оптимизация“, направление „Приложна математика“ 2013 г.
1171. ELECTRON BEAM CHARACTERIZATION BY A TOMOGRAPHIC APPROACH, Koleva E., Todorov D., Kardjiev M., Koleva L., Journal of Physics: Conference Series. 2016. Т. 700. № 1. С. 012013.

Работата:

215. E.Koleva, G.Mladenov. Intensive electron beam diagnostics, IEEE, CPMT, Annual School. Lectures, 2005, v.25, No 1, p.3-6

е цитирана в:

1172. ELECTRON BEAM CHARACTERIZATION BY A TOMOGRAPHIC APPROACH, Koleva E., Todorov D., Kardjiev M., Koleva L., Journal of Physics: Conference Series. 2016. Т. 700. № 1. С. 012013.

Работата:

221. E. Koleva, C. Menhard, T. Loewer, G. Mladenov. Emittance calculation based on the current distribution measurements at changes of the beam focusing, *Електроника и Електротехника*, 5-6, 2006, pp. 51-60.

е цитирана в:

1173. S.Marghitu, D.Martin, O.Marghitu, Fascicule de electroni de joasa energie:generale, diagnoza ne destructiva dinamica si testare. Project EGRETA Ceex06-Contract No 308 <http://egreta.inflpr.ro/index.htm>

Работата:

222. E. Koleva, V.Vassileva, K.Vutova, G.Mladenov, “Process Analysis and Quality Control at EBMR of Refractory and Reactive Metals”, Proc. of the Intern. Conf. on High-Power Electron Beam Technology, Harrah’s Reno, Nevada USA, (2006), pp.5/1-11.

е цитирана в:

1174. Ц.Богданова, Дипломна работа “Оптимизация на електроннольчево топене на мед чрез робасни методи за управление на качеството”, ХМТУ-София, Център по Европейско качество, (2008).
1175. R.Bakish, “Electron Beam Melting and Coating 2006”, J. Industrial Heating, August, (2007).
1176. Б.Найденов, Дипломна работа „Статистическо моделиране и оптимизация на процеса електроннольчево топене на мед”, ХМТУ-София, Катедра „Автоматизация на производството“, (2009).
1177. К. Дянкова, Дипломна работа „Повишаване на качеството на процеса електроннольчево топене и рафиниране на мед чрез оптимизация и робастно инженерно проектиране“, ХМТУ-София, Катедра „Автоматизация на производството“, (2009).

1178. С. Стоицова, Дипломна работа „Подобряване качеството на електроннольчево топене и рафиниране на титан на база регресионни и крипинг модели”, ХТМУ-София, Катедра „Автоматизация на производството”, (2009).
1179. Е. Христова, Дипломна работа „Статистическо моделиране и оптимизация на процеса електроннольчево топене”, ХТМУ-София, Катедра „Автоматизация на производството”, (2010).

Работата:

223. E. Koleva, V. Vassileva, K. Vutova, G. Mladenov. Electron beam melting and refining of refractory and reactive metals. E+E, 5-6, 2006, pp. 136-140.

е цитирана в:

1180. <http://textarchive.ru/c-1353536-pall.html>

Работата:

225. G. Mladenov. Phase-Space Analysis of the Intense Electron Beams. E+E, 5-6, 2006, pp. 33-40.

е цитирана в:

1181. <http://textarchive.ru/c-1353536-pall.html>

Работата:

226. Mladenov G., Koleva E., Petrov P., Georgiev Ch., Vlaev P. Electron beam welding of dissimilar materials. – Електротехника и електроника, вып. 41, 2006, №5-6. – Р. 87-92.

е цитирана в:

1182. <http://textarchive.ru/c-1353536-pall.html>

Работата:

227. V. Vassileva, K. Vutova, G. Mladenov. Analysis of the thermodynamic conditions of refining during EBM of refractory metals. Materials Science and Engineering Technology (Mat.-wiss. U. Werkstofftech), 2006, 37, №7, 613-618.

е цитирана в:

1183. Oh, J.-M., Lee, B.-K., Suh, C.-Y., Cho, S.-W., Lim, J.-W., Deoxidation of Ti powder and preparation of Ti ingot with low oxygen concentration, Materials Transactions, Volume 53, Issue 6, 2012, Pages 1075-1077
1184. Roh, K.-M., Suh, C.-Y., Oh, J.-M., Kim, W., Kwon, H., Lim, J.-W., Comparison of deoxidation capability for preparation of low oxygen content powder from TiNi alloy scraps, Powder Technology, Volume 253, February 2014, Pages 266-269
1185. Дипломната работа на Велико Динков Дончев, ф.н. 23960 на тема: „Оптимизация на процеса на електроннольчево топене и рафиниране на метали“ Софийски Университет „Св. Климент Охридски“, Факултет по Математика и Информатика, Магистърска програма „Оптимизация“, направление „Приложна математика“ 2013 г.
1186. Sankar, M., Mirji, K. V., Prasad, V. V., Baligidad, R. G., & Gokhale, A. A. (2016). Purification of Niobium by Electron Beam Melting. High Temperature Materials and Processes 35(6), c. 621-627.
1187. Lotto, A. A. Remoção de fósforo de silício por fusão a vácuo (Doctoral dissertation, Universidade de São Paulo).

Работата:

- 228.** Г. Младенов, В. Василева, К. Вутова, Т. Николов, Е. Георгиева. Електроннольчево топене и рафиниране на реактивни и труднотопими метали. *Електроника и Електротехника*, 7-8, 2006, pp. 13-21.

е цитирана в:

1188. Дипломната работа на Велико Динков Дончев, ф.н. 23960 на тема: „Оптимизация на процеса на електроннольчево топене и рафиниране на метали“, Софийски Университет “Св. Климент Охридски”, Факултет по Математика и Информатика, Магистърска програма “Оптимизация”, направление “Приложна математика” 2013 г.
1189. V. Donchev, A. Stoimenov, Denesh Amalenkar, N.Munirathnam, Electron Beam Melting and Recycling of Nickel, *Elektronika and Elektrotehnika*, 5-6, 2014, pp.138- 143

Работата:

- 230.** E. G. Koleva, G. M. Mladenov. Intense CW Beam Profile and Emittance. *Russian Physics Journal*, 11, 2006, pp. 49-53.

е цитирана в:

1190. http://www.congress-2006.hcei.tsc.ru/cat/2006_shce_ieib.html
1191. ELECTRON BEAM CHARACTERIZATION BY A TOMOGRAPHIC APPROACH, Koleva E., Todorov D., Kardjiev M., Koleva L., *Journal of Physics: Conference Series*. 2016. Т. 700. № 1. С. 012013.

Работата:

- 231.** G. Djanovski, M. Beshkova, S. Velinova, D. Mollov, P. Vlaev, D. Kovacheva, K. Vutova, G. Mladenov, Deposition of CeO₂films on Si(100)substrate by electron beam evaporation, *Plasma Processes and Polymers* 2006, 6, pp.197-200

е цитирана в

1192. Wang, Y., Liu, L., Liu, H., Song, X., Hong, D., Xu, D., Zhu, S., Li, Y., Rapid deposition of buffer layers for YBCO coated conductors on biaxially-textured ni tapes, *Journal of Superconductivity and Novel Magnetism*, Volume 24, Issue 7, October 2011, Pages 2085-2089
1193. Jauneika, M., Laukaitis, G., Dudonis, J. Study of samarium doped cerium oxide thin films formed by e-beam technique (2009) *Medziagotyra*, 15 (1), pp. 28-31.
1194. Jiang, Y., Bahlawane, N. Changes in the structural and optical properties of CeO₂ nanocrystalline films: Effect of film thickness (2009) *Journal of Alloys and Compounds*, 485 (1-2), pp. L52-L55.
1195. Luo, L., Chen, J., Wang, X. Thermal stability and surface behaviors of CeO₂/Si films during in-situ vacuum annealing, 2014, *Applied Surface Science*, 322, pp. 1196. Chaitin, D., Nakaruk, A., Phanichphant, S., Koshy, P., Sorrell, C.C., Effect of iron doping on the structural and optical properties of CeO₂ films, *Journal of Sol-Gel Science and Technology*, 2016, 79 (1), pp. 51-58

Работата:

- 233.** K.Vutova, G.Mladenov, I.Raptis, A.Olzierski, Process simulation of electron beam lithography on different substrates, *J.Mater.Process. Technol.*, 2007, 184,1-3, pp.305-311.

е цитирана в

1197. D'Urso, G., Longo, M., Ravasio, C., MacCarini, G., Characterization of an EBL system: The influence of process parameters on thickness resist and engraving shapes (Conference Paper), AIP Conference Proceedings, Volume 1315, 2010, Pages 1243-1248
1198. Zhang, H. , Komori, T. , Mohamad, Z. , Yin, Y. , Hosaka, S., Comparison of nano-sized pattern of calixarene and ZEP520 resists by using energy deposition distribution (Conference Paper), Key Engineering Materials, Volume 534, 2013, Pages 107-112
1199. Hui Zhang, Yulong Zhang, Sumio Hosaka, You Yin, Dependence of Electron Beam Diameter, Electron Energy, Resist Thickness and Resist Type for Forming Nano-sized Dot Arrays in EB Lithography by Using Monte Carlo Simulation., American Journal of Nanoscience and Nanotechnology. Vol. 1, No. 1, 2013, pp. 11-16. doi: 10.11648/j.nano.20130101.13
1200. H.Zhang, Electron Beam Lithography-<https://gair.media.gunma-u.ac.jp/.../博士卒業論文...>
1201. T. Yoshimoto, H.S. Kim, D.W. Kim, S. Ahn, Study of SiO₂ Thin Film Patterning by Low Energy Electron Beam Lithography Using Microcolumns, Journal of the Korean Magnetics Society 01/2007; 17(4). DOI: 10.4283/JKMS.2007.17.4.178
1202. M. Alexandrova, "Simulation of the 100-40 nm transistor gate formation process by EB lithography for 950K PMMA – Si substrate system", Proc. International Conference on Modern Problems in Physics of Surfaces and Nanostructures, p.52, Yaroslavl, Russia, (2010)
1203. Curriculum Vitae &of Ioannis Raptis, October 2010, PUBLICATIONS IN INTERNATIONAL JOURNALS, [A69]
1204. Yeh, H.Y., Shen, K.Y., Chang, S.W., (...), Liao, T.W., Kuan, C.H. Using rapid developing and developing speed model to decrease line width in electron beam lithography , 2014 , 14th IEEE International Conference on Nanotechnology, IEEE-NANO 2014 ,6968114, pp. 408-411
1205. 김호섭, 김대욱, & 안승준. (2007). 저 에너지 초소형 전자칼럼 리소그래피를 이용한 SiO₂ 박막의 Pattern 제작에 관한 연구. *한국자기학회지*, 17(4), 178-181. 2007 - dbpia.co.kr
1206. Andok, R., Bencurova, A., Kostic, I., (...), Skriniarova, J., Vutova, K. , Study of negative electron beam nanoresist HSQ on GaAs substrate , 2017, ASDAM 2016 - Conference Proceedings, 11th International Conference on Advanced Semiconductor Devices and Microsystems , 7805913, pp. 133-136

Работата:

- 235. G. Mladenov, E. Koleva, Evaluation and some applications of electron beam emittance, Proc. 7th Int.Confer. on Beam Technol., Halle, Germany, 2007, pp.85-92.**

е цитирана в:

1207. http://www.beamtec-conf.com/fileadmin/user_upload/gsi/Tagungen/Strahltechnik_2010/Tagungsbaende/Inhalt_Strahltechnik_07.pdf
1208. ELECTRON BEAM CHARACTERIZATION BY A TOMOGRAPHIC APPROACH, Koleva E., Todorov D., Kardjiev M., Koleva L., Journal of Physics: Conference Series. 2016. T. 700. № 1. C.012013.

Работата

- 236.** E. Koleva, V. Vasileva, G. Mladenov, **Simulation of thermal and mass transfer of reactive metals**, Proc. Intern. Confer. Liquid Metal Processing and Casting – LMPC'2007, Nancy, France, pp.219-225.
е цитирана в :

1209. INVESTIGATION OF TANTALUM RECYCLING BY ELECTRON BEAM MELTING Munirathnam N., Amalnerkar D.P., Tanaka T., Metals. 2016. Т. 6. № 11. С. 287.

Работата

- 238.** K.Vutova, G.Mladenov, **Computer simulation of micro- and nano-structures at electron and ion lithography**, *J.Optoel.Adv.Materials*, 2008, 10/1, pp.91-97.
е цитирана в:

1210. Silvia Mittler, Imaging of Thin Films and its Application in Life Sciences, Wiley-VCH Series of "Nanotechnologies for the Life Sciences", Volume 5: "Nanostructured Thin Films for Life Sciences." (Department of Physics and Astronomy, The University of Western Ontario, London, Ontario N6A 3K7 Canada) ISBN 978-3-527-32155-2, January 2010.

Работата:

- 239.** K.Vutova, E. Koleva, G.Mladenov, I.Kostic, T.Tanaka, K.Kawabata. **A simulation model for chemically amplified resists CAMP 6**. *Microel. Emgineering*, 86, 2009, pp.714-717

е цитирана в:

1211. Zhang, H., Komori, T., Zhang, Y., Yin, Y., Hosaka, S., Simulation of fine resist profile formation by electron beam drawing and development with solubility rate based on energy deposition distribution, Japanese Journal of Applied Physics, Volume 52, Issue 12, December 2013, Article number 126504

1212. H.Zhang. Electron Beam Lithography-[https://gair.media.gunma-u.ac.jp/.../博士卒業論文...](https://gair.media.gunma-u.ac.jp/.../)

Работата

- 240.** M.Beshkova, B.Blagoev, D.Kovacheva, G.Mladenov, T.Nurgaliev, **Deposition and characterization of high temperature superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films, obtained by DC magnetron sputtering and modification by thermal annealing**, *Journ.Physics:Conf.Series* 2008, 113, 01, 2021

е цитирана в

1213. Yu, G. , Bai, F. , Wen, D., Zhang, H., Epitaxial growth of high-tech perovsky-phased films by off-axis magnetron sputtering, *Journal of Vacuum Science and Technology* (2013) 33 (6) 578-585, ISSN: 16727126, DOI: 10.3969/j.issn.1672-7126.2013.06.14

1214. Dong, X., An, P., Zhang, J., (...), Ge, X., Li, Q. Superconductivity enhancement in Fe_3O_4 doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$, 2014 , *Journal of Superconductivity and Novel Magnetism* , 27 (3), pp. 693-699

1215. Dong, X., Wang, S., Zhou, Y., (...), Ge, X., Li, Q. Document The composite ceramics of $(\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta})_{1-x}(\text{Fe}_3\text{O}_4)_x$, *Journal of Electron Spectroscopy and*

- Related Phenomena , 196, 2014, pp. 66-70
 1216. 余果, 白飞明, 文丹丹, & 张怀武. (2013). 离轴磁控溅射生长钙钛矿外延薄膜.
真空科学与技术学报, 6, 015.

Работата:

241. E.Koleva, G.Mladenov, Evaluation of EBquality, *Proc. 1st Internat. Confer. Technol. And Equipment Electron Beam Welding*, May 2008, St.Petersburg, Russia, pp.99-109.

е цитирана в:

1217. Вихман В.Б., к.т.н., ФГУП «Центральный научно-исследовательский институт материалов», г. Санкт-Петербург.Первая Санкт-Петербургская международная конференция «Технологии и оборудование электронно-лучевой сварки -2008» www.cniim.com/files/Srochnonasait.doc
 1218. ELECTRON BEAM CHARACTERIZATION BY A TOMOGRAPHIC APPROACH, Koleva E., Todorov D., Kardjiev M., Koleva L.,Journal of Physics: Conference Series. 2016. Т. 700. № 1. С. 012013.

Работата:

242. E. Koleva, G. Mladenov, Statistical-mathematical approach at electron beam welding, *Proc. 1st Internat. Confer. Technol. And Equipment Electron Beam Welding*, May 2008, St. Petersburg, Russia, pp.40-49.

е цитирана в:

1219. Вихман В.Б., к.т.н., ФГУП «Центральный научно-исследовательский институт материалов», г. Санкт-Петербург.Первая Санкт-Петербургская международная конференция «Технологии и оборудование электронно-лучевой сварки -2008» www.cniim.com/files/Srochnonasait.doc

Книгата:

243. G. Mladenov, *Electron and Ion Technology*, Prof.M.Drinov Acad.Publ.House, Sofia, Bulgaria, 2009 (In Bulgarian)

е цитирана в:

1220. Katia Vutova and Veliko Donchev, Electron Beam Melting and Refining of Metals: Computational Modeling and Optimization, Materials 2013, 6, 4626-4640; doi:10.3390/ma6104626, ISSN 1996-1944
 1221. Veliko Donchev, Katia Vutova, Optimization method for electron beam melting and refining of metals , Journal of Physics: Conference Series 490 (2014) 012211 doi:10.1088/1742-6596/490/1/012211, 2nd International Conference on Mathematical Modeling in Physical Sciences 2013 IOP Publishing,
 1222. Дипломната работа на Велико Динков Дончев, ф.н. 23960 на тема: „Оптимизация на процеса на електроннольчево топене и рафиниране на метали“,Софийски Университет “Св. Климент Охридски”, Факултет по Математика и Информатика, Магистърска програма “Оптимизация”, направление “Приложна математика” 2013 г.
 1223. V.Vasileva, K.Vutova, V. Donchev, A.Stoimenov, Denesh Amalenkar, N.Munirathnam, Electron Beam Melting and Recycling of Nickel, Elektronika and Elektrotehnika, 5-6, 2014, pp.138- 143, Sofia, Publ.CEEC.
 1224. V.Spivak, E.Koleva, A.Vlasyuk, Analysis and generalization of scientific and

- educational information book in the field of nano-electronics, Electronika and Electrotechnika, 5-6, Sofia, Publ.CEEC, 2014, 5-6, pp.356-359.
1225. K.Vutova, V.Donchev, V.Vasileva, Dinesh Amalnerkar, N.Maniratham, T.Prakash, Application of nonstationary thermal model for simulation and investigation of heat and refining processes of Ti during EBMR, EPD Congress2013-The Minerals, Metals & Materials Society (TMS) – 2013, pp253-259
1226. K.Vutova, V.Donchev, E.Koleva, TMS 2012 141st Annual Meeting and Exhibition, Materials ...The Minerals, Metals & Materials Society (TMS) – 2012
1227. Yu. I. Babei, B. F. Ryabov, V. M. Golubets, B. T. Dyadchenko, L. Nature of etch-resistant layers produced in steel as a result of machining and certain other operations, Soviet Materials Science 01/1975; 9(4):394-400. DOI: 10.1007/BF00715630
1228. Nature and properties of the “white layers” K. Mindyuk, Yu. I. Babei, I. P. Vygovskii, Academy of Sciences of the Ukrainian SSR, Powder Metallurgy and Metal Ceramics (Impact Factor: 0.26). 01/1974; 13(9):754-756. DOI: 10.1007/BF00797726
1229. Vutova K., Donchev , ELECTRON BEAM MELTING AND REFINING OF METALS: COMPUTATIONAL MODELING AND OPTIMIZATION, Materials. 2013. Т. 6. № 10. С. 4626-4640.
1230. <http://www.book.store.bg/search?srchstr=%E5%EB%E5%EA%F2%F0%EE%ED%ED%E8%FF>
1231. <http://www.baspress.com/book.php?l=b&id=196> , Направление Нанонауки, нови материали и технологии , Електроника,
1232. Цветан Велинов, Физични основи на корпускулярните и фотонни микротехнологии, Магистърска програма по Микроелектроника и информационни технологии, Физически факултет на СУ „Св. Климент Охридски“
1233. 1. Димитринка Костадинова Гъркова, дипломна работа, ХТМУ–София, „Център по Европейско Качество”, март 2010.
1234. 2. Надя Емилова Рангелова, дипломна работа, център по Европейско качество, ХТМУ, януари 2012, тема: «Повишаване на качеството на процеса електронно лъчево заваряване чрез използването на робастни методи и оптимизация»
1235. 3. Инж. Нина Христова Маринова, дипломна работа, център по европейско качество, ХТМУ, март 2013 г., тема: „Повишаване на качеството на процеса електронно лъчево заваряване с осцилации на лъча чрез робастно инженерно проектиране”
1236. 4. Тоника Здравкова Стойчева, дипломна работа, център по европейско качество, ХТМУ, тема: „Повишаване на качеството на процеса електронно лъчева литография чрез робастно инженерно проектиране и оптимизация” - март 2013 г.
1237. 5. Лилияна Стефанова Колева, дипломна работа, ХТМУ, тема: „Разработване на графичен приложен интерфейс за оптимизация на електронно лъчево заваряване на стомана тип 38Cr2Ni2Mo“, септември 2013
1238. 6. Пламена Любомирова Николова, дипломна работа, център по Европейско качество, ХТМУ- София, тема: „Повишаване на качеството на процеса електронно – лъчево заваряване чрез робастно инженерно проектиране и оптимизация“, март 2014
1239. 7. Лилияна Стефанова Колева, дипломна работа, ХТМУ-София, тема:

- „Разработка на графичен потребителски интерфейс за изследване на процеса електронно лъчева литография, чрез статически методи и невронни мрежи“, 25 ноември 2014.
1240. 8. Филипа Георгиева Воденичарова дипломна работа, Център по Европейско качество, ХТМУ-София, тема: „Оптимизация на качеството на процеса електронно-лъчево заваряване чрез робастно инженерно проектиране“, март 2015.
1241. 9. Даниел Георгиев Дуков, дипломна работа,, ХТМУ, тема: „Робастно инженерно проектиране чрез статистическо моделиране и оптимизация на процеса електроннолъчево топене на мед“, ноември 2016
1242. 10. Айлин Юсеин Халил, дипломна работа, Център по европейско качество, ХТМУ, магистър, тема: „Управление на качеството на процеса на електронно лъчева модификация на материали чрез моделиране и оптимизация“, март 2017.
1243. 11. Алексей Стоянов Димитров, дипломна работа, ХТМУ, магистър, тема: „Управление на качеството на процеса на електронно-лъчево заваряване“, март 2017.

Книгата

244. G. Mladenov, Nanotechnology and nanoelectronics, Prof.M.Drinov Acad.Publ.House, Sofia, Bulgaria, 2010 (In Bulgarian).

е цитирана в

1244. Доц. д-р Валентин Видеков , Характеристика на учебната дисциплина:Въведение вnanoелектрониката, Код: МЕ16, ТУ София, http://oldweb.tu-sofia.bg/esntk/esntk12-13/fett/ME_BG/FETT_ME_BG-bg.pdf
1245. А. Близнаков, М. Илиева-Обретенова, Нанотехнологии в екологията, Екологизация 2012, НБУ, pp.1-5
1246. ТУ Варна, доц.д-р инж. Б.Р.Апрахамян, Конспект ЗА ДЪРЖАВЕН ИЗПИТ ПО “ЕЛЕКТРОТЕХНИКА”,ЗА СТУДЕНТИ ОТ СПЕЦИАЛНОСТ “ЕЛЕКТРОТЕХНИКА”, ОБРАЗОВАТЕЛНО-КВАЛИФИКАЦИОННА СТЕПЕН “БАКАЛАВЪР” 201
1247. Пловдивски Университет, ФАКУЛТЕТ ФИЗИКА И ИНЖЕНЕРНИ ТЕХНОЛОГИИ: ас. д-р Надежда Митева Кафадарова,КУРС: Физични основи на nanoелектрониката (ФОНЕ), задължителен – за магистри, специалност:Информационни и комуникационни системи, <http://procedures.uni-plovdiv.bg/docs/acreditation/381/947207948800935146.pdf>
1248. Мила И. Илиева-Обретенова , НАНОТЕХНОЛОГИИТЕ В ПРОМИШЛЕНАТА ЕКОЛОГИЯ , JUBILEE INTERNATIONAL CONGRESS SCIENCE, EDUCATION, TECHNOLOGIES "40 YEARS B U L G A R I A – S P A C E C O U N T R Y " pp.337-344
1249. V.Spirak, E.Koleva, A.Vlasyuk, Analysis and generalization of scientific and educational information book in the field of nano-electronics, Electronika and Electrotechnika, 5-6, Sofia, Publ.CEEC, 2014, 5-6, pp.356-359.
1250. http://www.helikon.bg/books/216_154580.html#book_info
1251. <http://www.store.bg/search?srchstr=%E5%EB%E5%EA%F2%F0%EE%ED>
1252. <http://www.baspress.com/book.php?l=b&id=146>, АИ „проф. М. Дринов“, Направление Нанонауки, нови материали и технологии
1253. <http://www.book.store.bg/p85416/nanotehnologii-i-nanoelektronika-georgi-mladenov.html>,
1254. <http://pandia.org/text/77/276/87595.php>

1255. МИЛА ИЛИЕВА-ОБРЕТЕНОВА, Ключови технологии на 21 век – мястото на нанонауките в теоретичните изследвания, Екология и бъдеще, ГОД. XII, № 2, Научно списание за селскостопанска и горска наука, vol. XII, No. 2, София. 2013, стр.11-15.
1256. Prof. Dr. of Sc. eng. Ivan Kolev, PhD eng. E. Koleva, APPLICATION OF NANOELECTRONICS IN OPTICAL COMMUNICATIONS, Списание „Компютърни науки и комуникации”, Том 4, № 1 (2015), БСУ, Бургас
1257. Нанотехнологите в екологията Nanotechnology in Ecology <http://ebox.nbu.bg/eko13/pdf1/1.pdf> А. Близнаков, М. Илиева-Обретенова, Екологизация 2012, НБУ, стр.1-5
1258. Книжарница BOOKS.BG - Издателство: Академично издателство ..., Нанотехнологии и наноелектроника, <http://www.books.bg/bg/%25D1%2582%25D0%25B8%25D0%25BF-%25D0%25B8%25D0%25B7%25D0%25B4>

Работата

245. K.Vutova and G.Mladenov, Chapter 17, Computer Simulation of Processes at Electron and Ion Beam Lithography, part 1: Exposure Modeling at Electron and Ion Beam Lithography, *Lithography*, Ed. by Michael Wang, INTEH Publ.Hause, Vukovar, Croatia, Printed in India 2010, pp.319-350.

е достъпна за бесплатно презаписване в:

1259. <http://sciyo.com/articles/show/title/computer-simulation-of-processes-at-electron-and-ion-beam-lithography-part-1-exposure-modelling-at-el>

Работата

246. K.Vutova and G.Mladenov, Chapter 18 Computer Simulation of Processes at Electron and Ion Beam Lithography, part 2: Simulation of resist developed images at Electron and Ion Beam Lithography, *Lithography*, Ed. by Michael Wang, INTEH Publ.Hause, Vukovar, Croatia, Printed in India, 2010, pp.351-378.

е достъпна за бесплатно презаписване в:

1260. <http://sciyo.com/articles/show/title/computer-simulation-of-processes-at-electron-and-ion-beam-lithography-part-2-simulation-of-resist-de>

1261. JR Burr , Degenerate Band Edge Resonators in Silicon Photonics- 2015 - <rave.ohiolink.edu>

Работата

247. K. Vutova, E. Koleva, G. Mladenov, I. Kostic, 2009, Some peculiarities of resist-profile simulation for positive-tone chemically amplified resist in electron beam lithography, *J.Vac.Sci.Technol.*, B27/1, pp.1017-1023, 2009.

е цитирана в

1262. Zhang, H., Komori, T., Zhang, Y., Yin, Y., Hosaka, S., Simulation of fine resist profile formation by electron beam drawing and development with solubility rate based on energy deposition distribution, Japanese Journal of Applied Physics, v. 52, Issue 12, December 2013, Article number 126504

1263. Vidyut Dey, Dilip Kumar Pratihar, Gouranga L. Datta, M. N. Jha, T. K. Saha, A. V. Bapat, Optimization and prediction of weldment profile in bead-on-plate welding of

- Al1100 plates using electron beam, International Journal of Advanced Manufacturing Technology, vol. 48, no. 5, pp. 513-528, 2010
1264. Zhang, H., Huda, M., Komori, T., Zhang, Y., Yin, Y., Hosaka, S. Estimation of pattern resolution using NaCl high-contrast developer by Monte Carlo simulation of electron beam lithography (2014) Microelectronic Engineering, 121, pp. 142-146.
1265. Ushirogouchi, Tohru Onishi, Yasunobu Tada, Tsukasa Resist Profile Simulation for Photoresist Composition Optimization, 1990, Journal of Vacuum Science & Technology B: Microelectronics and Nanometer Structures, 8, p.1418 Toshiba Research and Development Center, 1, Komukai-Toshiba-cho, Saiwai-ku, Kaw
1266. Andok, R., Bencurova, A., (...), Skriniarova, J., Study of negative electron beam nanoresist HSQ on GaAs substrate , 2017, ASDAM 2016 - Conference Proceedings, 11th International Conference on Advanced Semiconductor Devices and Microsystems , 7805913, pp. 133-136
1267. R Andok, A Bencúrova, ... Study of negative electron beam nanoresist HSQ on GaAs substrate - ... (ASDAM), 2016 11th ..., 2016 - ieeexplore.ieee.org
1268. R Andok, A Bencurova, ... , Study of the new CSAR62 positive tone electron-beam resist at 40 keV electron energy- Journal of Physics ..., 2016 - iopscience.iop.org
1269. H Zhang, M Huda, T Komori, Y Zhang, Y Yin... ,Estimation of pattern resolution using NaCl high-contrast developer by Monte Carlo simulation of electron beam lithography - Microelectronic ..., 2014 – Elsevier
1270. H Zhang, M Huda, T Komori, Y Zhang, Y Yin... Estimation of pattern resolution using NaCl high-contrast developer by Monte Carlo simulation of electron beam lithography - Microelectronic ..., 2014 - academia.edu

Работата

- 248. G. Mladenov, K. Vutova, E. Koleva, Computer simulation of electron and ion beam lithography of nanostructures, Phys.and Chem. Of Solid State 10/3, 2009.**
е цитирана в

1271. Lee, Y.-M., Li, J.-H., Sheu, T.-W.-H., Tsai, K.-Y., Yen, J.-Y., Solution-refined method for electrostatic potential distribution of large-scale electron optics, (2013), Japanese Journal of Applied Physics 52 (5 PART 1) , art. no. 055202, DOI: 10.7567/JJAP.52.055202
1272. H.Zhang, Electron Beam Lithography-dissertation-<https://gair.media.gunma-u.ac.jp/.../博士卒業論文... Japan>
1273. [http://www.irbis-nbuv.gov.ua/cgi-bin/irbis_nbuv/cgiirbis_64.exe?Z21ID=&I21DBN=REF&P21DBN=REF&S21STN=1&S21REF=10&S21FMT=fullwebr&C21COM=S&S21CNR=20&S21P01=0&S21P02=0&S21P03=A=&S21COLORTERMS=1&S21STR=Mladenov%20G\\$](http://www.irbis-nbuv.gov.ua/cgi-bin/irbis_nbuv/cgiirbis_64.exe?Z21ID=&I21DBN=REF&P21DBN=REF&S21STN=1&S21REF=10&S21FMT=fullwebr&C21COM=S&S21CNR=20&S21P01=0&S21P02=0&S21P03=A=&S21COLORTERMS=1&S21STR=Mladenov%20G$)

Работата

- 249. T. Tanaka, K.Vutova, E.Koleva, G.Mladenov, T. Takagi, 2009, Surface Modification of Plastic Films by Charge Particles, Surface Modification: Relevance to Adhesion, Ed. Mittal K.L., VSP/Brill Leiden, 5, pp.96-106.**
е цитирана в:

1274. Akram, M., & Anamelechi, C. Graft Co-Polymerization of 1, 5 diaminonaphthalene to improve adhesion between EPDM Rubber and Polyester Fabric.
1275. プラズマベースイオン注入 (PBII)

法を用いた窒素ガスとアルゴンガスの自己点弧プラズマの点灯のタイミング
下野和洋, 藤村信幸, 野口央照, 豊田宏... - Journal of the Vacuum ..., 2014
jstage.jst.go.jp

Работата

251. E.Koleva, G.Mladenov, K.Garkova and M.Kardjiev, Quality characterization of electron beams, *Electronics and Electrical Engineering* 5-6, 2009, pp.64-69.

е цитирана в:

1276. Ing. Pavel Jánský COULOMBOVSKÉ INTERAKCE V ELEKTRONOVÝCH SVAZCÍCH COULOMB INTERACTIONS IN ELECTRON BEAMS. Zkrácená verze Ph.D. Thesis Fyzikální a materiálové inženýrství Školitel: prof. RN Dr. Bohumila Lencová, CSc.
1277. ELECTRON BEAM CHARACTERIZATION BY A TOMOGRAPHIC APPROACH Koleva E., Todorov D., Kardjiev M., Koleva L., Journal of Physics: Conference Series. 2016. Т. 700. № 1. С. 012013.

Работата:

253. K.Vutova, V.Vassileva, E.Koleva, E.Georgieva, G.Mladenov, D.Mollov, M.Kardjiev, Investigation of electron beam melting and refining of Ti and Ta scrap. *Electronics and Electrical Engineering* 5-6, 2009, pp.252- 259 .

е цитирана в:

1278. Г.Георгиев, Дипломна работа „Статистическо моделиране и оптимизация на процеса електроннолъчево топене и създаване на приложна програма с помощта на MATLAB”, XTMU- София, Катедра „Автоматизация на производството”, (2009).

Книгата

258.

Монография в 2 тома: *Наноелектроника; Кн. 1. Г. М. Младенов, В. М. Спивак, Е. Г. Колева, А. В. Богдан. Введение в наноэлектронные технологии / Киев-София: Аверс, 2010. 332 стр*

е цитирана в :

1279. Доц. д-р Валентин Видеков , Характеристика на учебната дисциплина: Въведение в наноелектрониката, Код: ME16, ТУ София http://oldweb.tu-sofia.bg/esntk/esntk12-13/fett/ME_BG/FETT_ME_BG-bg.pdf
1280. Dmytro Zayachuk, Yuriy Yakimenko, Anatoliy Orlov, Viktoriya Koval et al, Development of Informative Training Materials in Modern Nanoelectronics , TCSET'2012, February 21–24, 2012, Lviv-Slavsk, Ukraine, p.447
1281. На сайта http://nold.bas.bg/fce/001/0003/files/BAS_otchet_2012.pdf в Отчета на БАН за 2012 се споменава награда на Г.Младенов с Почетен диплом от министъра на образованието на Украйна за написване на тази книга, като учебно пособие в новите модерни области на електрониката.
1282. На сайта http://www.bas.bg/images/otchetti/BAN_OTCHET_2011.pdf в Отчета БАН за 2011 е посочено награждаването на Г.Младенов с Почетен диплом за представянето на тази книга на изложба в Киев е качена в електронен вид на

- сайта на КПУ : http://me.kpi.ua/downloads/Nanoelectronics_1.pdf
1283. Vladimir Shumilov, (2018) National Research Tomsk State University, 634050, Tomsk, Russia , PRINCIPLES AND MECHANISMS OF BRAIN FUNCTIONING, MATEC Web of Conferences 155, 01050

Работата

- 259.** G.Mladenov, E.Koleva, Chapter1: Design of High Brightness Welding Electron Guns and Characterization of Intense Electron Beam Quality, *Welding:Processes,Quality, and applications*, Ed.Richard J.Klein, Nova Sci.Publishers, Seria Mechanical Engineering-Theory and Applications, 2010.
- е цитирана в:**
1284. https://www.novapublishers.com/catalog/product_info.php?products_id=17334
- 261.** K.Vutova, V.Vassileva, E.Koleva, E. Georgieva, G.Mladenov, D.Mollov, M.Kardjiev, “Investigation of Electron Beam Melting and Refining of Titanium and Tantalum Scrap”, *Journal of Materials Processing Technology*, 210, (2010), pp.1089-1094.
- е цитирана в**
1285. Zhang, T., Shang, Z., Chen, M., (...), Wang, X., Xiong, X., High-purity nickel prepared by electron beam melting: Purification mechanism, Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, February 2014, Volume 45, Issue 1, pp 164-174
1286. V. Donchev, Electron Beam Melting and Refining of Metals: Computational Modeling and Optimization, Materials, Volume 6, Issue 10, 2013, pp. 4626-4640
1287. V. Donchev, Optimization method for electron beam melting and remelting of metals, 2nd International Conference on Mathematical Modeling in Physical Sciences, 2013, IOP Publishing, Journal of Physics: Conference Series 490 (2014) 012211 pp.1- 4, doi:10.1088/1742-6596/490/1/012211
1288. Weng, Q.G., Li, R.D. , Yuan, T.C., Zhou, Z.H., He, Y.H., Investigation to impurity content and micromorphology of high purity titanium powder prepared by molten salt electrolysis, Materials Research Innovations,Volume 17, Issue 6, November 2013, Pages 396-402
1289. Tan, Y., Shi, S., Progress in research and development of electron beam technology in metallurgy refining field, Cailiao Gongcheng/Journal of Materials Engineering, Issue 8, August 2013, Pages 92-100
1290. Oh, J.-M., Lee, B.-K., Suh, C.-Y., Lim, J.-W, Removal of metallic impurities from Ti binary alloy scraps using hydrogen plasma arc melting, Journal of Alloys and Compounds, Volume 574, 2013, Pages 1-5
1291. Oh, J.-M., Lee, B.-K., Park, H.-K., Lim, J.-W, Preparation and purity evaluation of 5N-grade ruthenium by electron beam melting, Materials Transactions, Volume 53, Issue 9, 2012, Pages 1680-1684
1292. Jung-Min Oh, Hanjung Kwon, Jae-Won Lim, “Recycling and Applications of Titanium Alloy Scraps”, Clean Technology, Vol.19, No.2, 75-83, (2013)

1293. 티타늄 합금 스크랩의 재활용 및 응용 기술 현황 오정민 , 권한중 , 임재원 - Clean Technology, 2013 - cheric.org
1294. 电子束端面熔炼法制备高纯钨的研究 马运柱 , 刘业 , 刘文胜 , 龙路平 - 材料科学与工艺, 2014 - cnki.com.cn
1295. 电子束技术在冶金精炼领域中的研究现状和发展趋势 TAN Yi, SHI Shuang - 材料工程, 2013 - jme.biam.ac.cn
1296. 谭毅, and 石爽. "电子束技术在冶金精炼领域中的研究现状和发展趋势." 材料工程 8 (2013): 92-100.
1297. Mazurkiewicz, A., Smolik, J., Zbrowski, A., & Kacprzyńska, J. (2013). Innovative technical solutions for evaporation of multilayer coatings by EB-PVD method. Archives of Civil and Mechanical Engineering.
1298. Дипломната работа на Велико Динков Дончев, ф.н. 23960 на тема: „Оптимизация на процеса на електроннольчево топене и рафиниране на метали” Софийски Университет “Св. Климент Охридски”, Факултет по Математика и Информатика, Магистърска програма “Оптимизация”, направление “Приложна математика” 2013 г.
1299. Ma, Y., Liu, Y., Liu, W., Long, L. Preparation procedure of high purity tungsten via electron beam side surface melting (2014) Cailiao Kexue yu Gongyi/Material Science and Technology, 22 (1), pp. 30-35.
1300. Selective laser melting of AlSi10Mg alloy: Process optimisation and mechanical properties development, N Read, W Wang, K Essa, MM Attallah - Materials & Design, 2015 v.65, pp 417-424, Elsevier
1301. Refining Tungsten Purification by Electron Beam Melting Based on the Thermal Equilibrium Calculation and Tungsten Loss Control L Long, W Liu, Y Ma, Y Liu, S Liu - High Temperature Materials and ... - degruyter.com
1302. High-Purity Nickel Prepared by Electron Beam Melting: Purification Mechanism T Zhang, Z Shang, M Chen, J He, B Lv, X Wang... - ... Materials Transactions B, v.458, 2014 – Springer, DOI 10.1007/s11663-013-0007-6
1303. Recycling and Applications of Titanium Alloy Scraps, O Jung-Min, K Hanjung, L Jae-Won - Clean Technology, 2013 - central.oak.go.kr
1304. 티타늄 합금 스크랩의 재활용 및 응용 기술 현황 오정민 , 권한중 , 임재원 - Clean Technology, 2013 - cheric.org
1305. 초록 본 총설에서는 이원계 티타늄 합금 스크랩을 재활용하기 위해 수소 플라즈마 아크 용해를
1306. 马运柱 , 刘业 , 刘文胜 , 龙路平 - 材料科学与工艺, 2014 - cnki.com.cn [摘要]: 采用250 kW 的电子束熔炼炉对纯度为99.955% 的钨棒进行提纯研究, 利用扫描电镜, cameo.net.cn [PDF]
1307. [PDF] 基于有限元法对电子束熔炼提纯钨过程的温度场模拟 刘文胜 , 刘书华 , 龙路平 , 马运柱 , 刘业 - 稀有金属, 2014 -

cameo.net.cn

摘要：采用ANSYS

软件对电子束熔炼提纯钨过程中的温度场进行数值模拟，

1308. [PDF] 电子束技术在冶金精炼领域中的研究现状和发展趋势
TAN Yi, SHI Shuang - 材料工程, 2013 - jme.biam.ac.cn
摘要电子束技术具有高能量密度'高真真空度的优点! 并且能Z 实现Z 确控制! 成为目前熔±提纯c
1309. НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ ТЕХНОЛОГИЧЕСКИЙ УНИВЕРСИТЕТ "МИСиС" Логачев Иван Александрович, Исследование жаропрочного титанового сплава СТ6У с целью совершенствования технологии и повышения служебных характеристик готового изделия, Диссертация на соискание ученой степени кандидата технических наук, Научный руководитель дтн, профессор Косырев К.Л. Москва – 2014 г.
1310. Oh, J.-M., Lee, B.-K., Choi, G.-S., Lim, J.-W, Preparation and oxygen control of Ti-6Al-4V alloys by recycling dental pure Ti scrap. J. of Korean Inst. of resources recycling v.21, No1, 2012, pp. 60-65
1311. Jung-Min Oh, Jae-Won Lim , Recycling of Ti Turning Scraps for Production of Consumable Arc Electrode, Journal of the Korean Institute of Resources Recycling 01/2012 21(5)
1312. Liu, W., Liu, S., Long, L., Ma, Y., Liu, Y, Simulation of temperature field during electron beam melting tungsten based on finite element method , 2014 , Xiyou Jinshu/Chinese Journal of Rare Metals, vol.38, iss.4,pp.666-673, (2014).
1313. L Long, W Liu, Y Ma, Y Liu, S Liu "Refining Tungsten Purification by Electron Beam Melting Based on the Thermal Equilibrium Calculation and Tungsten Loss Control." High Temperature Materials and Processes, DOI: 10.1515/htmp-2014-0065, November 2014
1314. Long, L., Liu, W., Ma, Y., Liu, Y., Liu, S., 2015, Refining Tungsten by E B M Based on the Thermal Equilibrium Calculation and Tungsten Loss Control, High Temperature Materials and Processes , 34 (6), pp. 605-610
1315. Chao-en Hsieh, "The analysis of associated state and bioavailability of rare metal elements in TFT-LCDwaste sludge", Master's Thesis, National Taiwan University of Science and Technology, Jhy-chern Liu –Adviser, (2011)
1316. Jyun-Yu Chen, "Extraction and release behaviours of some metals in TFT-LCD sludge", thesis, Department of Chemical Engineering, Liu Zhicheng – Advisor, 2013
1317. Yang, Ming-Shiun, "Leaching of phosphorus and trace elements from TFT-LCD waste sludge", thesis, NTUST, Taiwan, June, 2010.
1318. Read, N., Wang, W., Essa, K., Attallah, M.M. Selective laser melting of AlSi10Mg alloy: Process optimisation and mechanical properties development, 2015, Materials and Design, 65, pp. 417-424
1319. Wang, Z., Li, J., Hua, Y., (...), Zhang, Y., Ke, P. Research progress in production technology of titanium ,2014, Xiyou Jinshu/Chinese Journal of Rare Metals , 38 (5), pp. 915-927
1320. Li.G., Tian F., Li L., Tian W., Li X., 2015 Application of hydrogen plasma arc melting technique on refining refractory metals, Metal Materials and

- Engineering 44(3) pp.775-780
1321. JM Oh, BK Lee, HK Park, JW Lim - jim.or.jp, [PDF] Preparation and Purity Evaluation of 5N-Grade Ruthenium by Electron Beam Melting
1322. 谭毅, 石爽. 电子束技术在冶金精炼领域中的研究现状和发展趋势 //材料工程. – 2013. – №. 8. – C. 92-100.
1323. Oh J. M., Lim J. W. Recycling of Ti Turning Scraps for Production of Consumable Arc Electrode //Journal of the Korean Institute of Resources Recycling. – 2012. – T. 21. – №. 5. – C. 58-64.
1324. Sankar, M., Mirji, K. V., Prasad, V. V., Baligidad, R. G., & Gokhale, A. A. (2015). Purification of Niobium by Electron Beam Melting. High Temperature Materials and Processes. - adsabs.harvard.edu
1325. Hsieh C. The analysis of associated state and bioavailability of rare metal elements in TFT-LCD waste sludge. – 2011.
1326. 오정민, 권한중, 임재원. 티타늄 합금 스크랩의 재활용 및 응용 기술 현황 //청정기술. – 2013. – T. 19. – №. 2. – C. 75-83.
1327. 马运柱 et al. 电子束端面熔炼法制备高纯钨的研究 //材料科学与工艺. – 2014. – T. 1. – C. 006.
1328. 王震 et al. 钛制取工艺研究进展 //稀有金属. – 2014. – T. 5. – C. 027.
1329. Логачев И. А. Исследование режима легирования и процесса плавки жаропрочного титанового сплава СТ6У . misis.ru, 2014. Титановые сплавы широко применяются в различных отраслях промышленности, в том числе жаропрочные. Исследование и разработка титановых сплавов для нужд авиационной и космической техники, включая авиационные газотурбинные и ракетные ...
1330. Long, L., Liu, W., Ma, Y., Liu, Y., & Liu, S. Refining Tungsten Purification by Electron Beam Melting Based on the Thermal Equilibrium Calculation and Tungsten Loss Control. degruyter.com
1331. CHEN J. Y. U. Extraction and release behaviors of some metals in TFT-LCD sludge. – 2012. с сайта ntust.edu.tw
1332. Oh J. M., Kwon H., Lim J. W. Recycling and Applications of Titanium Alloy Scraps //Clean Technology. – 2013. – T. 19. – №. 2. – C. 75-83.
1333. JM Oh, H Kwon, JW Lim - 2013 - central.oak.go.kr, [PDF] Recycling and Applications of Titanium Alloy Scraps
1334. Donchev, V. (2015). Non-stationary heat model for electron beam melting and refining—An economic and conservative numerical method. Applied Mathematical Modelling. doi:10. 1016/j.apm.2015.08.008, ISSN: 0307-904X, IF: 2.251
1335. Wang, Z., Li, J., Hua, Y., (...), Zhang, Y., Ke, P. , Research progress in production technology of titanium , 2014, Xiyou Jinshu/Chinese Journal of Rare Metals ,38 (5), pp. 915-927
1336. Long, L., Liu, W., Ma, Y., Liu, Y., Liu, S., Refining Tungsten Purification by Electron Beam Melting Based on the Thermal Equilibrium Calculation and Tungsten Loss Control, High Temperature Materials and Processes , 2015, 34 (6), pp. 605-610
1337. Dolimont, A., Michotte, S., Rivière-Lorphèvre, E., (...), Godet, S., Filippi, E. , Effect of HIPping (Hot Isostatic Pressing) on electron beam melting Ti6Al4V parts after machining , 2016, AIP Conference Proceedings , 1769,

- 190006
1338. Dolimont, A., Michotte, S., Rivière-Lorphéver, E., (...), Godet, S., Filippi, E. , Characterization of electron beam melting process (EBM) : Capability approach , 2016 , ASPE/euspen 2016 Summer Topical Meeting: Dimensional Accuracy and Surface Finish in Additive Manufacturing , pp. 16-21
1339. Park, H.K., Ahn, Y.K., Lee, B.S., (...), Lee, C.W., Kim, H.G. , Refining effect of electron beam melting on additive manufacturing of pure titanium products , 2017, Materials Letters , 187, pp. 98-100
1340. Kai Yao, X. H. Min, Shuang Shi, Yi Tan, Volatilization Behavior of β -Type Ti-Mo Alloy Manufactured by Electron Beam Melting, March 2018, DOI 10.3390/met8040206
1341. K Yao, X Min, S Shi, Y Tan Volatilization Behavior of β -Type Ti-Mo Alloy Manufactured by Electron Beam Melting - Metals, 2018 - mdpi.com
1342. K Yao, X Min, S Shi, Y Tan ,Volatilization Behavior of β -Type Ti-Mo Alloy Manufactured by Electron Beam Melting- researchgate.net
1343. A Dolimont, S Michotte... Influence on surface characteristics of electron beam melting process (EBM) by varying the process parameters- AIP Conference ..., 2017 - aip.scitation.org
1344. Influence on surface characteristics of electron beam melting process (EBM) by varying the process parameters, A Dolimont, S Michotte... - American Institute of ..., 2017 - adsabs.harvard.edu
1345. JE Lee, JH Yoon, CG Lee, JH Park... Enhanced Tantalum Hydride Formation by the Catalytic Effect of Tungsten for Hydrogen Dissociation- Science of Advanced ..., 2017 - ingentaconnect.com
1346. F Römer, T Elwert, D Goldmann Challenges and a possible solution for the recycling of tantalum from waste electrical and electronic equipment- Published in: Proceedings of ..., 2016 - researchgate.net
1347. Segregation behavior of nickel-based superalloy after electron beam smelting Q You, H Yuan, X You, J Li, L Zhao, S Shi, Y Tan - Vacuum, 2017, 145, c.116-122 – Elsevier
1348. JE Lee, JH Yoon, CG Lee, JH Park ,Enhanced Tantalum Hydride Formation by the Catalytic Effect of Tungsten for Hydrogen Dissociation ... - Science of Advanced ..., 2017 - ingentaconnect.com
1349. 티타늄 합금 스크랩의 재활용 및 응용 기술 현황
오정민 , 권한중 , 임재원 - 청정기술, 2013 - kpubs.org. Abstract: In the present paper, we review recycling and applications of titanium binary alloy scraps.
- هیش داده شده با نانولایپوش Ti-6Al-4V میانستی ایرفتار خورده یبررس. زارع, مانی پ, یهاشم ی Hammond, ی محمود ی پیزشک ی کاربردها ی تانتالوم برای 2016 و مواد, یمتالورژی مهندس - آرمان ی دکیب jmme.um.ac.ir
1350. Dissimilar joining of austenitic stainless steels and low carbon steels are extensively utilized in many applications. Numerous investigations have been performed to evaluate these dissimilar joints using various methods such as gas-tungsten arc welding, resistance spot ...
- پوشش داده شده با نانولایپه Ti-6Al-4V بررسی رفتار خورده ی ایمپلن. محمودی محبوه, محمودی هاشمی پیمان, زارع کی تانتالوم برای کاربردهای پیزش
1352. محمودی محبوه, محمودی هاشمی پیمان, زارع کی تانتالوم برای کاربردهای پیزش sid.ir - Abstract In this study, Ti-6Al-4V alloy was coated with a

- nm thick tantalum nanolayer using physical vapor deposition method with electron beam in order to improve its surface and corrosion properties. The surface hardness and roughness of the control sample (Ti ...
1353. JM Oh, BK Lee, HK Park, JW Lim Preparation and purity evaluation of 5N-grade ruthenium by electron beam melting- Materials transactions,
1354. Investigation to impurity content and micromorphology of high purity titanium powder prepared by molten salt electrolysis - QG Weng, RD Li, TC Yuan, ZH Zhou... - Materials Research ..., 2013 - Taylor & Francis
1355. 钛制取工艺研究进展 王震, 李坚, 李坚, 华一新, 华一新, 张志, 张远... - 稀有金属, 2014
1356. 电子束技术在冶金精炼领域中的研究现状和发展趋势
 谭毅, 石爽 - 材料工程, 2013 - jam.biam.ac.cn
 摘要电子束技术具有高能量密度, 高真空气度的优点, 并且能够实现精确控制, 成为目前熔炼提纯太阳能级多晶硅, 精炼高熔点金属及其合金以及制备高纯特殊钢和超洁净钢的有效手段. 本文在阐述电子束熔炼原理的基础上, 着重对电子束技术在几种高纯材料与合金精炼中的研究与 ...
1357. 电子束技术在冶金精炼领域中的研究现状和发展趋势 谭毅, 石爽 - 材料工程, 2013 - cnki.com.cn
1358. Sankar, M., Mirji, K. V., Prasad, V. V., Baligidad, R. G.,..., Purification of Niobium by Electron Beam Melting. High Temperature Materials and Processes, 2016 - degruyter.com
1359. [PDF] 氢等离子体电弧熔炼技术在难熔金属提纯中的应用
1360. 李国玲, 田丰, 李里, 田文怀, 李星国 - 稀有金属材料与工程, 2015 - rmme.ac.cn
1361. 收稿日期 : 2014-03-20
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 李国玲1,3, 田丰2, 李里3, 田文怀1, 李星国3 ...
1362. [PDF] 티타늄 합금 스크랩의 재활용 및 응용 기술 현황
1363. 오정민, 권한중, 임재원 - 청정기술, 2013 - kpubs.org
1364. NON-STATIONARY HEAT MODEL FOR ELECTRON BEAM MELTING AND REFINING - AN ECONOMIC AND CONSERVATIVE NUMERICAL METHOD, Donchev V., Applied Mathematical Modelling. 2016. T. 40. № 2. C. 1565-1575.
1365. A. Dolimont, E. Riviere, F. Ducobu, S. Backaert, Impact of chemical polishing on surface roughness and dimensional quality of electron beam melting process (EBM) parts, May 2018, AIP Conference Proceedings

- 1960(1):140007, DOI10.1063/1.5034999, Conference: PROCEEDINGS THE 21ST INTERNATIONAL ESAFORM CONFERENCE ON MATERIAL FORMING: ESAFORM 2018
1366. INVESTIGATION OF TANTALUM RECYCLING BY ELECTRON BEAM MELTING Munirathnam N., Amalnerkar D.P., Tanaka T., Metals. 2016. T. 6. № 11. C. 287.
1367. Yao, K., Min, X., Shi, S., Tan, Y., Volatilization behavior of β -type Ti-Mo alloy manufactured by electron beam melting, 2018, Metals, 8(4), 206
1368. Lee, J.-E., Yoon, J.-H., Lee, C.-G., Park, J.-H., Park, I.-K., Enhanced tantalum hydride formation by the catalytic effect of tungsten for hydrogen dissociation, 2017, Science of Advanced Materials, 9(12), c. 2173-2177
1369. Michotte, S., Rivière-Lorphèvre, E., (...), Henkes, T., Filippi, E., Surface characteristics of electron beam melting process (EBM) by varying the process parameters, 2017, AIP Conference Proceedings 1896, 040010
1370. Vassileva, V., Naplataanova, M., Tanaka, T., Refining effect of electron beam melting on recycling of nickel wastes, Proceedings of the International Spring Seminar on Electronics Technology, 2017, 8000891

Работата:

262. K. Vutova, E. Koleva, G. Mladenov, I. Kostic, T. Tanaka, "Computer simulation of resist profiles at electron beam nanolithography", *Microelectronics Engineering*, 87, (2010), pp.1108-1111.

е цитирана в

1371. Zhang, H., Komori, T., Zhang, Y., Yin, Y., Hosaka, S., Simulation of fine resist profile formation by electron beam drawing and development with solubility rate based on energy deposition distribution, Japanese Journal of Applied Physics, Volume 52, Issue 12, December 2013, Article number 126504
1372. Vidyut Dey, Dilip Kumar Pratihar, Gouranga L. Datta, M. N. Jha, T. K. Saha, A. V. Bapat, Optimization and prediction of weldment profile in bead-on-plate welding of Al1100 plates using electron beam, International Journal of Advanced Manufacturing Technology, vol. 48, no. 5, pp. 513-528, 2010
1373. H. Zhang, Electron Beam Lithography-https://gair.media.gunma-u.ac.jp/...博士卒業論文...
1374. Zhang, H., Huda, M., Komori, T., Zhang, Y., Yin, Y., Hosaka, S. - Estimation of pattern resolution using NaCl high-contrast developer by Monte Carlo simulation of electron beam lithography (2014) Microelectronic Engineering, 121, pp. 142-146.
1375. Rýger, I., Vanko, G., Lalinský, T., (...), Andok, R., Tomáška, M., GaN/SiC based surface acoustic wave structures for hydrogen sensors with enhanced sensitivity, 2015, Sensors and Actuators, A: Physical 227, pp. 55-62
1376. Park, H.K., Ahn, Y.K., Lee, B.S., (...), Lee, C.W., Kim, H.G., Refining effect of electron beam melting on additive manufacturing of pure titanium products, 2017, Materials Letters, 187. 98-100

Работата:

266. E. Koleva, K. Vutova, G. Mladenov, D. Todorov, "Method of emittance evaluation", Proc. of 16th International SHCE and 10th International CMM,

19-24 September 2010, Tomsk, Russia., pp.31-34 (2010).

е цитирана в:

1377. ELECTRON BEAM CHARACTERIZATION BY A TOMOGRAPHIC APPROACH, Kardjiev M., Koleva L., Journal of Physics: Conference Series. 2016. T. 700. № 1. C. 012013.

Работата:

271. G. Mladenov, E. Koleva, V. Spivak, Y. Yakimenko, A. Bogdan, Some Perspective Aspects of Nanotechnology Development, *MODERN PROBLEMS OF RADIO ENGINEERING, TELECOMMUNICATIONS AND COMPUTER SCIENCE, Proceedings of International Conference TCSET'2010*, Lvov.: Politechnyka, 2010 .- pp. 368-369.

е цитирана в:

1378. Vidyal Dey, Dilip Kumar Pratihar, Gouranga L. Datta, M. N. Jha, T. K. Saha, A. V. Bapat, Optimization and prediction of weldment profile in bead-on-plate welding of Al1100 plates using electron beam, International Journal of Advanced Manufacturing Technology, vol. 48, no. 5, pp. 513-528, 2010

Работата

272. K. Vutova, E. Koleva, G. Mladenov, Simulation of thermal transfer process in cast ingots at electron beam melting and refining, *International Review of Mechanical Engineering (IREME)*, Vol 5.2 (2009), 257–265.

е цитирана в

1379. Donchev, V., Electron beam melting and refining of metals: Computational modeling and optimization, Materials, Volume 6, Issue 10, 2013, Pages 4626-4640
1380. Donchev, V., Vassileva, V., Amalnerkar, D.P., Munirathnam, N., Prakash, T., Application of non-stationary thermal model for simulation and investigation of heat and refining processes of Ti during EBMR (Conference Paper), TMS Annual Meeting, 2013, Pages 253-260
1381. Donchev, V., Optimization method for electron beam melting and refining of metals (2014) Journal of Physics: Conference Series, 490 (1), art. no. 012211,
1382. Donchev, V. (2015). Non-stationary heat model for electron beam melting and refining—An economic and conservative numerical method. Applied Mathematical Modelling. doi:10.1016/j.apm.2015.08.008, ISSN: 0307-904X, IF: 2.251
1383. Chen, X., Li, X., Jiang, Y., Zhou, R., Effects of drawing velocity and casting temperature on solidification interface of the flat titanium ingot, Tezhong Zhuao Ji Youse Hejin/Special Casting and Nonferrous Alloys ,2016, 36 (4), pp. 412-415
1384. Liu, Q., Li, X., Jiang, Y. , Numerical simulation of EBCHM for the large-scale TC4 alloy slab ingot during the solidification process , 2017, Vacuum 141, pp. 1-9
1385. Liu, Q.-L., Li, X.-M., Jiang, Y.-H., Zhou, R. , Effect of process condition on solid liquid interface during continuous solidification process of large

- scale TC4 titanium alloy slab ingot , 2016, Zhongguo Youse Jinshu Xuebao/Chinese Journal of Nonferrous Metals, 26 (8), pp. 1641-1648
1386. Liu, Q., Li, X., Geng, N., Chen, X., Jiang, Y., Numerical Simulation of Electron Beam Cold Hearth Melting for the Large Scale Titanium Slab Ingot during Solidification Process, 2017, Tezhong Zhuao Ji Youse Hejin/Special Casting and Nonferrous Alloys, 37(3), c. 244-249
1387. QL Liu, XM Li, YH Jiang, Microstructure evolution of large-scale titanium slab ingot based on CAFE method during EBCHM -
1388. ~~工艺条件对TC4扁锭连铸过程固液界面的影响 刘千里, 李向明, 蒋业华, 周荣 - 中国有色金属学报, 2016 - cqvip.com~~
1389. ~~牵拉速度和浇注温度对钛扁锭凝固界面的影响 陈骁夫, 李向明, 蒋业华, 周荣 - 特种铸造及有色合金, 2016 - cqvip.com~~
1390. ~~大规格钛扁锭凝固过程的非稳态数值计算研究 陈骁夫, 李向明, 蒋业华, 周荣 - 热加工工艺, 2016 - cqvip.com~~
1391. V Donchev, M Oane, Heat transfer study based on time-dependent mathematical model and experimental data at EBMR of Ta - Electrotechnica and ..., 2012 - researchgate.net
1392. MICROSTRUCTURE EVOLUTION OF LARGE-SCALE TITANIUM SLAB INGOT BASED ON CAFE METHOD DURING EBCHM, Liu Q.-L., Li X.-M., Jiang Y.-H., Journal of Materials Research. 2017. T. 32. № 16. C. 3175-3182.
1393. Liu, Q.-L., Li, X.-M., Jiang, Y.-H., Microstructure evolution of large-scale titanium slab ingot based on CAFE method during EBCHM, 2017, Journal of Materials Research, 32(16), c. 3175-3182
1394. Vassileva, V., Donchev V. (...), Amalnerkar, D.P., Tanaka, T., Investigation of tantalum recycling by electron beam melting, 2016, Metals, 6(11), 287

Работата

273. G. M. Mladenov, E.G. Koleva, K. Z. Vutova, Heat transfer and weld geometry at electron beam welding, *International Review of Mechanical Engineering (I.R.E.M.E.)*: Vol 5 № 2, pp.235-243, (February 2011) pp.235-243.

е цитирана в:

1395. Zargar, O.A. The preheating influence on welded joint mechanical properties prepared by friction stir welding aluminum alloy H20-H20, 2013 , Middle East Journal of Scientific Research 15 (10), pp. 1415-1419
1396. NON-STATIONARY HEAT MODEL FOR ELECTRON BEAM MELTING AND REFINING - AN ECONOMIC AND CONSERVATIVE NUMERICAL METHOD, *Donchev V.* Applied Mathematical Modelling. 2016. T. 40. № 2. C. 1565-1575.

Работата

276. Г.Младенов, Нобеловите лауреати по физика за 2010 г. *Списание на БАН*, 6/2010, стр. 90-94

е цитирана в:

1397. Българска национална библиография, серия 5, Статии от български списания и сборници, Изд. НБ «Св.св.Кирил и Методи», Год. 59, 2010, бр. 11, с.25, ISSN 2367-5977

Работата

277. G.Mladenov, E.Koleva, K.Vutova, V.Vasileva, “Experimental and theoretical studies of electron beam melting and refining”, Chapter in book “*Practical Aspects and Applications of Electron Beam Irradiation*”, Editors Team: M.Nemtanu, M.Brasoveanu, acc. for publ. (2011)

е цитирана в:

1398. Дипломната работа на Велико Динков Дончев, ф.н. 23960 на тема: „Оптимизация на процеса на електроннольчево топене и рафиниране на метали“ Софийски Университет “Св. Климент Охридски”, Факултет по Математика и Информатика, Магистърска програма “Оптимизация”, направление “Приложна математика” 2013 г.
1399. V.Donchev, A.Stoimenov, Denesh Amalenkar, N.Munirathnam, Electron Beam Melting and Recycling of Nickel, Elektronika and Elektrotehnika, 5-6, 2014, pp.138- 143
1400. <http://www.ressign.com/UserBookDetail.aspx?bkid=1229&catid=250>
1401. M Naplataanova... Refining effect of electron beam melting on recycling of nickel wastes- ... (ISSE), 2017 40th ..., 2017 - ieeexplore.ieee.org
1402. NON-STATIONARY HEAT MODEL FOR ELECTRON BEAM MELTING AND REFINING - AN ECONOMIC AND CONSERVATIVE NUMERICAL METHOD, Donchev V. Applied Mathematical Modelling. 2016. Т. 40. № 2. С. 1565-1575.
1403. INVESTIGATION OF TANTALUM RECYCLING BY ELECTRON BEAM MELTING, Koleva E., Munirathnam N., Amalnerkar D.P., Tanaka T., Metals. 2016. Т. 6. № 11. С. 287.

Работата:

278. K. Vutova, G. Mladenov, T. Tanaka, “Photoelectron signal simulation at surface analysis”, Chapter in book “*Practical Aspects and Applications of Electron Beam Irradiation*”, Editors Team: M.Nemtanu, M.Brasoveanu, acc. for publ. (2011)

е цитирана в:

1404. <http://www.ressign.com/UserBookDetail.aspx?bkid=1229&catid=250>

Работата:

279. G. Mladenov, E. Koleva, K. Vutova, “Electron lithography of submicron and nano structures”, Chapter in book “*Practical Aspects and Applications of Electron Beam Irradiation*”, Editors Team: M.Nemtanu, M.Brasoveanu, acc. for publ. (2011)

е цитирана в:

1405. <http://www.ressign.com/UserBookDetail.aspx?bkid=1229&catid=250>
1406. <http://www.publicpriorart.org/xml/20/1/1/2327/07213/20.1.1.2327.07213.xml>

Работата:

- 280.** E. Koleva, G. Mladenov, Experience on electron beam welding, Chapter in book “*Practical Aspects and Applications of Electron Beam Irradiation*”, Editors Team: M.Nemtanu, M.Brasoveanu, Transword Research Network, Trivandrum, India (2011), pp.95-133

е цитирана в:

- 1407. <http://www.ressign.com/UserBookDetail.aspx?bkid=1229&catid=250>
- 1408. V. Dzharov, P. Yordanov, Automation control of EBW installation by SIMATIC S7-300 PLC, “E+E”, 5-6/ 2016 , pp.162-165
- 1409. M.Sc. Eng. Koleva L. NEURAL NETWORKS FOR DEFECTIVENESS MODELING AT ELECTRON BEAM WELDING, Industry,4.0, YEAR II ISSUE 1/2017, pp.5-8
- 1410. ELECTRON BEAM CHARACTERIZATION BY A TOMOGRAPHIC APPROACHKoleva E., Todorov D., Kardjiev M., Koleva L., Journal of Physics

- 281. Монография в 2 тома: *Наноэлектроника* Кн. 2. А. Н. Шмырева, Г. М. Младенов, В. М. Спивак, Е.Г.Колева и А.В.Богдан, *Материалы и функциональные устройства* : Киев-София: Аверс, 2011. – 394 стр.**

е цитирана в

- 1411. D Zayachukl, Y Yakimenko et al, Development of informative training materials in modern nanoelectronics, Modern problems of radioengineering Relecommunications and Computer Sciences (TCSET) Internat.conference, 21-24 Feb.2012,Lviv Polytech.Nat.Univ.p.447
- 1412. Доц. д-р Валентин Видеков , Характеристика на учебната дисциплина: „Въведение в наноелектрониката“, Код: МЕ16, ТУ София, http://oldweb.tu-sofia.bg/esntk/esntk12-13/fett/ME_BG/FETT_ME_BG-bg.pdf
- 1413. На сайта http://nold.bas.bg/fce/001/0003/files/BAS_otchet_2012.pdf в Отчета на БАН за 2012 се споменава награда на Г.Младенов с Почетен диплом от министъра на образованието на Украйна за написване на тази книга, като учебно пособие в новите модерни области на електрониката.
- 1414. На сайта http://www.bas.bg/images/otcheti/BAN_OTCHET_2011.pdf в Отчета на БАН за 2011 е посочено награждаването на Г.Младенов с Почетен диплом за представянето на тази книга на изложба в Киев

Работата

- 288. K. Vutova, V. Vassileva, G. Mladenov, E. Koleva, T. Prakash, N.Munirathnam, “Electron beam melting and recycling of hafnium”, accepted for publication in the Proc. of 2011 TMS Conference (The Minerals, Metals&Materials Society), USA, (2011).**

е цитирана в:

- 1415. Дипломната работа на Велико Динков Дончев, ф.н. 23960 на тема:

„Оптимизация на процеса на електроннолъчево топене и рафиниране на метали“ Софийски Университет „Св. Климент Охридски“, Факултет по Математика и Информатика, Магистърска програма „Оптимизация“, направление „Приложна математика“ 2013 г.

1416. 高纯金属铪制备技术研究进展 田丽森 · 尹延西, 胡志方,
李忠岐, 王力军 - 矿冶, 2014 - cqvip.com
高纯金属铪具有特殊的物理化学性质和核性能,
在核反应堆和航空航天等工业领域具有广泛的 应用前景.
总结了国内外高纯金属铪常用的几种制备方法, 包括熔盐电解,
碘化精炼,
电子束熔炼和电子束悬浮区熔, 概述了各方法的原理和研究进展,
并分析比较了各制备方法的优

Работата

290. Y.I. Yakimenko, G.M. Mladenov, V.M. Spivak, A.V. Bogdan, V.M. Koval, Photoelectric converters: Current state analysis and prospects of evolution, International conference on Nanotechnology and Biomedical engineering, Chișinău, Republic of Moldova, 7-8th of July,2011, pp. 67-71

е цитирана в

1417. M Tirshu, V Berzan, A.Orlov, Energy-Effective Electrical Converters of Solar Energy Based on Semiconductor Nanomaterials and Their use in Lighting Systems of Premises, Modern problems of radioengineering Telecommunications and Computer Sciences (TCSET) International conference, 21-24 Feb.2012, Lviv Polytech.Nat.Univ., p.120
1418. Moldavian Society of Biomedical Engineering, <http://www.sibm.md/uploads/files/BIONANOCONF2011.pdf>

Работата

298. K. Vutova, G. Mladenov, E.Koleva, I.Kostic, A. Bencurova, P.Nemec and T.Tanaka, Nonlinear Solubility Behavior of Polymer and Oligomer Resists at Electron Beam Modification, Journal of Materials Science and Engineering B 1 (2011) 523-529

е цитирана в

1419. Tuma, J., Lyutakov, O., Huttel, I., Slepicka, P., Svorcik, V., "Reversible patterning of poly (methylmethacrylate) doped with disperse Red 1 by laser scanning", Journal of Applied Physics 114 (9), (2013), T. 114. № 9. C. 093104.
1420. J Tuma, O Lyutakov, I Huttel, P Slepicka, V Svorcik - 2013 - inis.iaea.org; Reversible patterning of poly (methylmethacrylate) doped with disperse Red 1 by laser scanning

Работата:

299. Г.Младенов, Е.Колева, Расчет и оптимизация геометрических характеристик шва при электронно-лучевой сварке, Международная научно-техническая конференция "Технологии и оборудования ЭЛС-2011" 22-27 мая 2011, Санкт Петербург 2011, стр. 116-129

е цитирана в:

1421. <http://www.libed.ru/konferencii-mashinostroenie/664942-1-federalnoe-agentstvo-nauke-innovaciyam-pravitelstvo-sankt-peterburga-komitet-ekonomiceskogo-razvitiya-promishlen.php>

Работата

302. DN Trushnikov, VE Shchavlev, GM Mladenov, LN Krotov *Chapter: Investigation of Processes in the Keyhole of Electron-Beam Welding by Monitoring the Secondary Current Signal in the Plasma*, pp.217-230 in book: "In-situ Studies with Photons, Neutrons and Electrons Scattering II", Kannengiesser, Th., Babu, S.S., Komizo, Y.-i., Ramirez, A. (Eds.) 259 p. DOI: 10.1007/978-3-319-06145-0_13, Springer International Publishing, Switzerland 2014

е цитирана в:

1422. USE OF A SECONDARY CURRENT SENSOR IN PLASMA DURING ELECTRON-BEAM WELDING WITH FOCUS SCANNING FOR PROCESS CONTROL, Krotova E., Koleva E. Journal of Sensors. 2016. Т. 2016. С. 5302681.

Работата

303. V.Ya. Belenky, D.N. Trushnikov, G.M. Mladenov, T.V. Olshanskaya, Features of producing sound welds in electron beam welding of thick high strength steels, The International Paton Welding Journal, 2, 2012, pp.40-42

е цитирана в

1423. ОБЗОР РЕЗУЛЬТАТОВ ИСПОЛЬЗОВАНИЯ ВТОРИЧНО-ЭМИССИОННЫХ СИГНАЛОВ ДЛЯ КОНТРОЛЯ И УПРАВЛЕНИЯ ПРОЦЕССОМ ФОРМИРОВАНИЯ ШВА ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, Пискунов А. Л., Piskunov A. L., Лялин А.Н., Lyalin A.N., Щавлев В.Е., Абдуллин А.А., Вестник Пермского национального исследовательского политехнического университета. Машиностроение, материаловедение. 2012. Т. 14. № 3. С. 82-95.

1424. Electron Beam Welding of High Strength Quenched and Tempered Steel
1425. MS Węglowski, S Błach, S Dymek, M Kopyścianki - Materials Science Forum, 2017, Vol. 879, pp. 2078-2083

Работата:

303а. В.Я.Беленький, Д.Н.Трушников, Г.М.Младенов, Т.В.Ольшанская, ОСОБЕННОСТИ ПОЛУЧЕНИЯ КАЧЕСТВЕННЫХ СВАРНЫХ ШВОВ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ ВЫСОКОПРОЧНЫХ СТАЛЕЙ БОЛЬШОЙ ТОЛЩИНЫ,

Автоматическая сварка, 2012, № 2, с. 47-50

е цитирована в:

1426. ОБЗОР РЕЗУЛЬТАТОВ ИСПОЛЬЗОВАНИЯ ВТОРИЧНО-ЭМИССИОННЫХ СИГНАЛОВ ДЛЯ КОНТРОЛЯ И УПРАВЛЕНИЯ ПРОЦЕССОМ ФОРМИРОВАНИЯ ШВА ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, Пискунов А. Л., Piskunov A.L., Лялин А.Н., Lyalin A.N., Щавлев В.Е., Абдуллин А.А., Вестник Пермского национального исследовательского политехнического университета. Машиностроение, материаловедение. 2012. Т. 14. № 3. С. 82-95.
1427. http://wirbis.rsvpu.ru/cgi-bin/irbis64r_12/cgiirbis_64.exe?LNG=uk&C21COM=S&I21DBN=INFO&O&P21DBN=INFO&S21FMT=in
1428. И.В. Ситников, ПРИМЕНЕНИЕ ОСЦИЛЛЯЦИИ ЭЛЕКТРОННОГО ПУЧКА ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, 2015, MASTER'S JOURNAL, № 1, с. 87-93
1429. S.V. Varushkin, N.A. Zyryanov, A.A. Kylosov, OSCILATION OF ELECTRON BEAM DURING ELECTRON BEAM WELDING FOR IMPROVING WELD ROOT AND EASMENTING MELT-THROUGH MODE CONTROL, ВЕСТНИК ПНИПУ, Машиностроение, материаловедение Т. 19, № 2, 2017, DOI: 10/15593/2224-9877/2017.2.11
1430. С.В. Варушкин, Г.Л. Пермяков, ОСОБЕННОСТИ СИГНАЛА ТОРМОЗНОГО РЕНТГЕНОВСКОГО ИЗЛУЧЕНИЯ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ С ОСЦИЛЛЯЦИЕЙ ЭЛЕКТРОННОГО ЛУЧА, ВЕСТНИК ПНИПУ, Машиностроение, материаловедение Т. 18, № 3, 2016, DOI: 10/15593/2224-9877/2016.3.07
1431. OPTIMAL MODE OF BEAM OSCILLATION FOR MELT-THROUGH MODE IN ELECTRON BEAM WELDING AND ITS INFLUENCE ON PENETRATION CONTROL SYSTEM 7.Varushkin S., Trushnikov D., Permyakov G., В сборнике: Procedia Engineering. Сер. "International Conference on Industrial Engineering, ICIE 2017"
1432. ВЛИЯНИЕ ГИДРОПРОДОЛЬНОЙ ОСЦИЛЛЯЦИИ ЛУЧА НА ГЕОМЕТРИЮ СВАРНОГО ШВА ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ Кылосов А.А., Зырянов Н.А., Masters Journal. 2017. № 1. С. 68-72.
1433. ИЗМЕНЕНИЕ ОПТИЧЕСКИХ СВОЙСТВ КВАРЦЕВОГО СТЕКЛА ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ ОБРАБОТКЕ ФОРВАКУУМНЫМ ПЛАЗМЕННЫМ ИСТОЧНИКОМ, Зенин А.А., Кужугет Ч.С.А., Климов А.С., В сборнике: ПРОГРЕССИВНЫЕ ТЕХНОЛОГИИ И ПРОЦЕССЫ. Сборник научных статей 3-й Международной молодежной научно-практической конференции. Ответственный редактор Горохов А.А.. 2016. С. 92-96.

Работата

304. D.Trushnikov, V.Belenki'y, N.Kolchanova, G.Mladenov, The use of secondary-emission signal for the weld formation monitoring and

control in high power electron beam welding.
[http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1521-4052](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1521-4052) Materialwissenschaft und Werkstofftechnik, 2012, 43, No. 10, pp.892-897

е цитирована в:

1434. Портнов Н.С., Косьянов А.В., Варушкин С.В., Абдуллин А.А., ВЗАИМОСВЯЗЬ ПАРАМЕТРОВ ВТОРИЧНОГО ТОКА РАЗРЯДА В ПЛАЗМЕ С ФОКУСИРОВКОЙ ПУЧКА ПРИ ЭЛС, Master's Journal. 2013. № 1. стр. 29-36.
1435. <http://www.chemie.de/fachpublikationen/thema/emission/p7/>
1436. Варушкин С.В., ПРИМЕНЕНИЕ ЭКРАНИРОВАННОГО КОЛЛЕКТОРА ДЛЯ КОНТРОЛЯ РЕЖИМА СКВОЗНОГО ПРОПЛАВЛЕНИЯ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, Современные проблемы науки и образования, №6, 2014
1437. Digital scientific journal ISSN 2070-7428, DY Apushkin, AI Andreev, IP Bulatov, TL Malkova - science-education.ru
1438. Yakushin, S. V., Usov, V. V., Polezhaev, A. A., & Bolokhova, I. L. Digital scientific journal ISSN 2070-7428.
1439. Варушкин, С. В., ПРИМЕНЕНИЕ ЭКРАНИРОВАННОГО КОЛЛЕКТОРА ДЛЯ КОНТРОЛЯ РЕЖИМА СКВОЗНОГО ПРОПЛАВЛЕНИЯ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ. с сайта science-education.ru.
1440. Weixi Wang, Satoshi Yamane, Tomoyuki Koike, Jiro Touma, Kazumichi Hosoya, Toru Nakajima, Hikaru Yamamoto, Image processing method for automatic tracking of the weld line in plasma robotic welding, The International Journal of Advanced Manufacturing Technologypp 1-8, 12 January 2016, 86 (5-8), pp. 1865-1872, DOI <https://doi.org/10.1007/s00170-015-0991-1>
1441. Nahmany, M., Hooper, Z., Stern, A., Geanta, V., Voiculescu, I., AlxCrFeCoNi High-Entropy Alloys: Surface Modification by Electron Beam Bead-on-Plate Melting, 2016, Metallography, Microstructure, and Analysis , 5 (3), pp. 229-240
1442. С.В. Варушкин, Г.Л. Пермяков, ОСОБЕННОСТИ СИГНАЛА ТОРМОЗНОГО РЕНТГЕНОВСКОГО ИЗЛУЧЕНИЯ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ С ОСЦИЛЛЯЦИЕЙ ЭЛЕКТРОННОГО ЛУЧА, ВЕСТНИК ПНИПУ, 2016 Машиностроение, материаловедение Т. 18, № 3, pp.93-106, DOI: 10/15593/2224-9877/2016.3.07
1443. Nahmany, M., Hooper, Z., Stern, A. et al. Metallogr. Microstruct. Anal. (2016) 5: 229. <https://doi.org/10.1007/s13632-016-0276-y>
1444. OPTIMAL MODE OF BEAM OSCILLATION FOR MELT-THROUGH MODE IN ELECTRON BEAM WELDING AND ITS INFLUENCE ON PENETRATION CONTROL SYSTEM Varushkin S., Permyakov G., В сборнике: Procedia Engineering. Сеп. "International Conference on Industrial Engineering, ICIE 2017" 2017.
1445. НАВОДЧЕНИЕ КАНАЛА ПРОПЛАВЛЕНИЯ В РЕНТГЕНОВСКОМ СПЕКТРЕ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, Браверман В.Я., Вестник Пермского национального исследовательского политехнического университета. Машиностроение, материаловедение. 2016. Т. 18. № 4. С. 147-156.

1446. IMAGE PROCESSING METHOD FOR AUTOMATIC TRACKING OF THE WELD LINE IN PLASMA ROBOTIC WELDING, Wang W., Yamane S., Koike T., Touma J., Hosoya K., Nakajima T., Yamamoto H., *The International Journal of Advanced Manufacturing Technology*. 2016. Т. 86. № 5-8. С. 1865-1872.
1447. USE OF A SECONDARY CURRENT SENSOR IN PLASMA DURING ELECTRON-BEAM WELDING WITH FOCUS SCANNING FOR PROCESS CONTROL, Krotova E., *Journal of Sensors*. 2016. Т. 2016. С. 5302681.
1448. МОДЕЛЬ ФОРМИРОВАНИЯ СИГНАЛА ДЛЯ КОНТРОЛЯ СКВОЗНОГО ПРОПЛАВЛЕНИЯ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, Варушкин С.В., *Известия Тульского государственного университета. Технические науки*. 2015. № 6-2. С. 244-252.

Работата

- 306.** D.N. Trushnikov, E.G. Kolewa, V.Ya. Belenkiy, G.M. Mladenov, *Experimental investigations of the weld cross section at electron beam welding of high-strength steel*, *Electronics and Electrical Engineering*, Sofia, Publ.CEEC, 2012, 5-6, pp.108-114

се цитира в:

1449. ОБЗОР РЕЗУЛЬТАТОВ ИСПОЛЬЗОВАНИЯ ВТОРИЧНО-ЭМИССИОННЫХ СИГНАЛОВ ДЛЯ КОНТРОЛЯ И УПРАВЛЕНИЯ ПРОЦЕССОМ ФОРМИРОВАНИЯ ШВА ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, Пискунов А.Л., Piskunov A.L., Лялин А.Н., Lyalin A.N., Щавлев В.Е., Абдуллин А.А., Вестник Пермского национального исследовательского политехнического университета. Машиностроение, материаловедение. 2012. Т. 14. № 3. С. 82-95.

Работата

- 307.** E.Koleva, G.Mladenov, D.Trushnikov, V.Belenkiy, *Model based approach for investigation of electron beam welding of high-strength steels*, *Electronics and Electrical Engineering*, Sofia, Publ.CEEC, 2012, 5-6, pp.115-118

е цитирана в

1450. ИССЛЕДОВАНИЕ ГЕОМЕТРИЧЕСКИХ ХАРАКТЕРИСТИК И МИКРОСТРУКТУРЫ СВАРНЫХ ШВОВ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ СТАЛИ 12Х18Н10Т С ОСЦИЛЛЯЦИЕЙ ЭЛЕКТРОННОГО ПУЧКА, Саломатова Е.С., Ольшанская Т.В., Вестник Пермского национального исследовательского политехнического университета. Машиностроение, материаловедение. 2012. Т. 14. № 3. С. 36-42.
1451. ОБЗОР РЕЗУЛЬТАТОВ ИСПОЛЬЗОВАНИЯ ВТОРИЧНО-ЭМИССИОННЫХ СИГНАЛОВ ДЛЯ КОНТРОЛЯ И УПРАВЛЕНИЯ ПРОЦЕССОМ ФОРМИРОВАНИЯ ШВА ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, Пискунов А.Л., Лялин В.Е., Абдуллин А.А. Вестник Пермского

национального исследовательского политехнического университета. Машиностроение, материаловедение. 2012. Т. 14. № 3. С. 82-95.

Работата

- 309.** D.N. Trushnikov, E.G. Kolewa, G.M. Mladenov, V.Ya. Belenkiy, Effect of beam deflection oscillations on the weld geometry, Journal of Material Proc. Technology, 213, 2013, pp. 1623– 1634

е цитирана в

1452. ИЗУЧЕНИЕ ФИЗИЧЕСКИХ ПРОЦЕССОВ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ ПО ПАРАМЕТРАМ ВТОРИЧНОГО ТОКА В ПЛАЗМЕ, Д.Николаев, Физика и химия обработки материалов. 2014. № 5. С. 36-45.
1453. А.Л.Гончаров, А.П.Слива, Е.В.Терентьев, М.А.Портнов, И.С.Чулков, Методика определения технологических параметров электронных пучков в сварочных электронных пушках, в кн. Электронно-лучевая сварка и смежные технологии, 2015, Изд. НИУ“МЭИ“, стр.333-346
1454. Wang, L., Gao, M., Zhang, C., Zeng, X. , Effect of beam oscillating pattern on weld characterization of laser welding of AA6061-T6 aluminum alloy , 2016 , Materials and Design , 108, pp. 707-717
1455. Yu. Letyagin, Benefits and Prospects of Laser Welding Application in Vacuum
1456. KnE Materials Science , IV Sino-Russian ASRTU Symposium on Advanced Materials and Processing Technology (ASRTU) , 2016 , pp.90-94, DOI: 10.18502/kms.v1i1.568
1457. ВЯ Браверман , Наблюдение канала проплавления в рентгеновском спектре при электронно-лучевой сварке - Вестник Пермского национального ..., 2016 - cyberleninka.ru
1458. ЕС Саломатова , Закономерности изменения химического состава сварных соединений при электронно-лучевой сварке с динамическим воздействием на электронный ..., - 2015 - elar.urfu.ru
1459. НАБЛЮДЕНИЕ КАНАЛА ПРОПЛАВЛЕНИЯ В РЕНТГЕНОВСКОМ СПЕКТРЕ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, Браверман В.Я., Вестник Пермского национального исследовательского политехнического университета. Машиностроение, материаловедение. 2016. Т. 18. № 4. С. 147-156.

Работата

- 313.** D. Trushnikov, V.Belenkiy, V. Shchavlev, A. Piskunov, A. Abdullin and G. Mladenov, Plasma Charge Current for Controlling and Monitoring Electron Beam Welding with Beam Oscillation, Sensors 2012, 12, 17433-17445; doi:10.3390/s121217433

е цитирана в:

1460. You, D.Y., Gao, X.D., Katayama, S. , Review of laser welding monitoring
1461. (2014) Science and Technology of Welding and Joining, 19 (3), pp. 181-201.
1462. You, D., Gao, X., Katayama, S. Multisensor fusion system for

- monitoring high-power disk laser welding using support vector machine, (2014) IEEE Transactions on Industrial Informatics, 10 (2), art. no. 6754132, pp. 1285-1295.
1463. Южаков А.А. МАТЕМАТИЧЕСКАЯ МОДЕЛЬ ДАТЧИКА ВТОРИЧНОГО ТОКА В ПЛАЗМЕ ДЛЯ КОНТРОЛЯ ФОКУСИРОВКИ ЭЛЕКТРОННОГО ПУЧКА, Вестник Ижевского государственного технического университета. 2013. № 2 (58). С. 025-029.
1464. Petukhov Alexander Yur'evich, Branched chain reactions in social systems
1465. Life Science Journal 2014;11(8),pp.950-953, ISSN:1097-8135
1466. Саломатова Е.С., Варушкин С.В. ОЦЕНКА ТЕМПЕРАТУРЫ В КАНАЛЕ ПРОПЛАВЛЕНИЯ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ РАЗНОРОДНЫХ МАТЕРИАЛОВ // Современные проблемы науки и образования. – 2014. – № 2;
1467. D You, X Gao, S Katayama, Multisensor Fusion System for Monitoring High-power Disk Laser Welding Using Support Vector Machine - 2014 - ieeexplore.ieee.org
1468. DP Alimasova, Digital scientific journal ISSN 2070-7428 - science-education.ru Методика создания и использования практических веб-занятий в образовательном процессе высших учебных заведений
1469. Petukhov Alexander Yur'evich, Branched chain reactions in social systems, Life Science Journal 2014;11(8), pp.950-953, <http://www.lifesciencesite.com/>
1470. E. S. Salomatova, Estimation of the Temperature in the Weld Penetration Channel in Electron Beam Welding, Journal of Power and Energy Engineering, 2013, 1, 51-53 <http://dx.doi.org/10.4236/jpee.2013.17009>, Published Online
1471. December 2013 Китор: Prakash, S. On-line Welding for an Axle Housing Using Programmable Logic Controller, http://www.irdindia.co.in/journal/journal_ijmer/pdf/vol1_iss2/1.pdf
1472. Gao X, YouD, Katayama S., 2015, The high frequency characteristics of laser reflection and visible light during solid state disk laser welding, Laser physics letters 1217, 076003
1473. Plasma Charge Current for Controlling and Monitoring Electron ... <https://www.mdpi.com/1424-8220/12/12/17433/pdf14> Dec 2012 ... Sensors 2012, 12, 17434.
1474. Plasma Charge Current for Controlling and Monitoring Electron ... <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3571846/>
1475. I.Nagesh, A.Kodua, Kwabena. Sliding Mode Observers of Plasma Signal Identification in Remote Laser Welding, IFAC (International Association for Automatic Control) Papers on line 48-3 (2015) pp.1924-
1476. \$910HERBAKOV A. V. et al. WELD FORMATION CONTROL AT ELECTRON BEAM WELDING WITH BEAM OSCILLATIONS //Вестник Сибирского государственного аэрокосмического университета им. академика МФ Решетнева. – 2014. – №. 3 (55).
1477. Almetova Z. V. Digital scientific journal ISSN 2070-7428.[с сайта science-education.ru]

1478. Salomatova, E.S., V.Y., Rayzgen, U. Determination of temperature in the penetration channel in electron beam welding , 2016 , Welding International 30 (2), pp. 133-136
1479. You, D.Y., Gao, X.D., Katayama, S. , Review of laser welding monitoring , 2014 , Science and Technology of Welding and Joining ,19 (3), pp. 181-201
1480. You, D., Gao, X., Katayama, S. , Multisensor fusion system for monitoring high-power disk laser welding using support vector machine ,2014 , IEEE Transactions on Industrial Informatics ,10 (2), 6754132, pp. 1285-1295
1481. Yu. Letyagin, Benefits and Prospects of Laser Welding Application in Vacuum KnE Materials Science , IV Sino-Russian ASRTU Symposium on Advanced Materials and Processing Technology (ASRTU) , 2016 , pp.90-94, DOI: 10.18502/kms.v1i1.568
1482. G L Permyakov, Numerical simulation of electron beam welding with beam oscillations,2017, IOP Conf. Ser.: Mater. Sci. Eng. 177 012085
1483. НАБЛЮДЕНИЕ КАНАЛА ПРОПЛАВЛЕНИЯ В РЕНТГЕНОВСКОМ СПЕКТРЕ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, Браверман В.Я., Вестник Пермского национального исследовательского политехнического университета. Машиностроение, материаловедение. 2016. Т. 18. № 4. С. 147-156.
1484. USE OF A SECONDARY CURRENT SENSOR IN PLASMA DURING ELECTRON-BEAM WELDING WITH FOCUS SCANNING FOR PROCESS CONTROL Krotova E., Koleva E., Journal of Sensors. 2016. T. 2016. C. 5302681.

Работата

314. Trushnikov DN, Koleva EG, Mladenov GM, Ya Belenkiy V, (2013) Weld formation control at electron beam welding with focal spot scanning. Middle-East J Sci Res 16:1062–1068

е цитирана в:

1485. Weixi Wang, Satoshi Yamane, Tomoyuki Koike, Jiro Touma, Kazumichi Hosoya, Toru Nakajima, Hikaru Yamamoto, Image processing method for automatic tracking of the weld line in plasma robotic welding, Journal of Manufacturing Technology, pp 1-8, 12 January 2016, DOI10.1007/s00170-015-8311-8
1486. W Wang, S Yamane, H Suzuki, J Toma... , Tracking and height control in plasma robotic welding using digital CCD camera- International Journal of Advanced Technolog, 2016, T.86, No 5-8, 1865-1872, Springer
1487. ES Salomatova... , Modeling the Influence of the Penetration Channel's Shape on Plasma Parameters When Handling Highly Concentrated Energy Sources - Advances in Materials ..., 2017 - hindawi.com
1488. USE OF A SECONDARY CURRENT SENSOR IN PLASMA ELECTRON-BEAM WELDING WITH FOCUS SCANNING FOR PROCESS CONTROL, Krotova E., Journal of Sensors. 2016. T. 2016.

C. 5302681.

Работата

- 315. T.V.Ol'shanskaya, D.N.Trushnikov, V. Ya. Belenkiy and G.M.Mladenov, Effect of electron beam oscillations on the formation of the structure and properties of the welded joint, *Welding International*, v.27, No 11, pp.881-885, <http://dx.doi.org/10.1080/09507116.2013.796638>**

е цитирана в:

1489. S.V. Varushkin, N.A. Zyryanov, A.A. Kylosov, OSCILATION OF ELECTRON BEAM DURING ELECTRON BEAM WELDING FOR IMPROVING WELD ROOT AND EASMENTING MELT-THROUGH MODE CONTROL, ВЕСТНИК ПНИПУ, Машиностроение, материаловедение Т. 19, № 2, 2017, DOI: 10/15593/2224-9877/2017.2.11
1490. С.В. Варушкин, Г.Л. Пермяков, ОСОБЕННОСТИ СИГНАЛА ТОРМОЗНОГО РЕНТГЕНОВСКОГО ИЗЛУЧЕНИЯ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ С ОСЦИЛЛЯЦИЕЙ ЭЛЕКТРОННОГО ЛУЧА, ВЕСТНИК ПНИПУ, Машиностроение, материаловедение Т. 18, № 3, 2016, DOI: 10/15593/2224-9877/2016.3.07
1491. Yu. Letyagin, Benefits and Prospects of Laser Welding Application in Vacuum
1492. KnE Materials Science , IV Sino-Russian ASRTU Symposium on Advanced Materials and Processing Technology (ASRTU) , 2016 , pp.90-94, DOI: 10.18502/kms.v1i1.568
1493. ИССЛЕДОВАНИЕ ХИМИЧЕСКОГО СОСТАВА СВАРНЫХ ШВОВ ПРИ СВАРКЕ ВЫСОКОКОНЦЕНТРИРОВАННЫМИ ИСТОЧНИКАМИ ЭНЕРГИИ В ВАКУУМЕ Саломатова Е.К., Ольшанская Т.В., Трушников Д.Н., Беленький В.Я., Федосеева Е.М. В сборнике: Роль фундаментальных исследований при реализации "Стратегических направлений развития материалов и технологий их переработки на период до 2030 года. Сборник докладов III Всероссийской научно-технической конференции. ФГУП «ВИАМ». 2016. С. 34.
1494. OPTIMAL MODE OF BEAM OSCILLATION FOR MELT-THROUGH MODE IN ELECTRON BEAM WELDING AND ITS INFLUENCE ON PENETRATION CONTROL SYSTEM Varushkin S., Permyakov G., В сборнике: Procedia Engineering. Сер. "International Conference on Industrial Engineering, ICIE 2017" 2017. С. 1360-1364.

Работата

- 315а. T.V.Ol'shanskaya, D.N.Trushnikov, V. Ya. Belenkiy and G.M.Mladenov, Effect of electron beam oscillations on the formation of the structure and properties of the welded joint, *Svarochnoe proizvodstvo*, 2012 65/11., 13-18**

е цитирана в

1495. Саломатова Е.С., ИССЛЕДОВАНИЕ ГЕОМЕТРИЧЕСКИХ ХАРАКТЕРИСТИК И МИКРОСТРУКТУРЫ СВАРНЫХ ШВОВ ПРИ

- ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ СТАЛИ 12Х18Н10Т С ОСЦИЛЛАЦИЕЙ ЭЛЕКТРОННОГО ПУЧКА Вестник Пермского национального исследовательского политехнического университета. Машиностроение, материаловедение. 2012. Т. 14. № 3. С. 36-42.
1496. Пискунов А.Л., Piskunov A.L., Лялин А.Н., Lyalin A.N., Щавлев В.Е., Абдуллин А.А. ОБЗОР РЕЗУЛЬТАТОВ ИСПОЛЬЗОВАНИЯ ВТОРИЧНО-ЭМИССИОННЫХ СИГНАЛОВ ДЛЯ КОНТРОЛЯ И УПРАВЛЕНИЯ ПРОЦЕССОМ ФОРМИРОВАНИЯ ШВА ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, Вестник Пермского национального исследовательского политехнического университета. Машиностроение, материаловедение. 2012. Т. 14. № 3. С. 82-95.
1497. Літопис журналних статей - Книжкова палата України, ISSN 0130-9188, http://www.ukrbook.net/litopys/jurnal/2012/LJ_09_2012%20V.pdf
1498. И.В. Ситников, ПРИМЕНЕНИЕ ОСЦИЛЛАЦИЙ ЭЛЕКТРОННОГО ПУЧКА ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, 2015, MASTER'S JOURNAL, № 1, с. 87-93
1499. Varushkin, S., Permyakov, G., Optimal Mode of Beam Oscillation for Melt-Through Mode in Electron Beam Welding and Its Influence on Penetration, Control System, Procedia Engineering, 2017, 206, с. 1360-1364
1500. СВ Варушкин, НА Зырянов, ОСЦИЛЛАЦИЯ ЭЛЕКТРОННОГО ЛУЧА КАК СРЕДСТВО УЛУЧШЕНИЯ ФОРМИРОВАНИЯ КОРНЯ СВАРНОГО ШВА И ОБЛЕГЧЕНИЯ КОНТРОЛЯ СКВОЗНОГО ПРОПЛАВЛЕНИЯ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, Вестник Пермского национального исследовательского политехнического университета. Машиностроение, материаловедение, 2017, Т. 19, № 2, pp.151-159, DOI: 10/15593/2224-9877/2017.2.11
1501. ИССЛЕДОВАНИЕ ХИМИЧЕСКОГО СОСТАВА СВАРНЫХ ШВОВ ПРИ СВАРКЕ ВЫСОКОКОНЦЕНТРИРОВАННЫМИ ИСТОЧНИКАМИ ЭНЕРГИИ В ВАКУУМЕ Саломатова Е.К., Федосеева Е.М., В сборнике: Роль фундаментальных исследований при реализации "Стратегических направлений развития материалов и технологий их переработки на период до 2030 года. Сборник докладов III Всероссийской научно-технической конференции. ФГУП «ВИАМ». 2016. С. 34.
1502. SIMULATION OF THERMAL PROCESSES AT ELECTRON-BEAM WELDING WITH BEAM SPLITTING, Salomatova E.S., Global Journal of Pure and Applied Mathematics. 2016. Т. 12. № 4. С. 3525-3534.
1503. INVESTIGATION OF DYNAMIC POSITIONING OF THE ELECTRON BEAM ON THE CHEMICAL COMPOSITION OF WELD IN ELECTRON BEAM WELDING, Salomatova E.S., Global Journal of Pure and Applied Mathematics. 2016. Т. 12. № 4. С. 3535-3544.
1504. РАЗРАБОТКА ТЕХНОЛОГИИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКИ СОСУДОВ ВЫСОКОГО ДАВЛЕНИЯ ИЗ СТАЛИ 30ХГСА, Драгунов В.К., Слива А.П., Жмурко И.Е., Гончаров А.Л., Терентьев Е.В., Марченков А.Ю., Коваленко Д.А., Болохов Е.Ю., Нефтяное хозяйство. 2016. № 12. С. 126-130.
1505. ОСОБЕННОСТИ СВАРКИ СТАЛИ 10ХСНД ЛАЗЕРНЫМ ЛУЧОМ С КОЛЕБАНИЯМИ Шиганов И.Н., Грязев Н.В., Шамов Е.М.,

- производство. 2016. № 10. С. 45-50. 2. ПРИМЕНЕНИЕ ЭЛЕКТРОННОГО ПУЧКА ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ Ситников И.В., Masters Journal. 2015. № 1. С. 87-93.
1506. МОДЕЛИРОВАНИЕ ПРОЦЕССОВ ИСПАРЕНИЯ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ С ДИНАМИЧЕСКИМ ПОЗИЦИОНИРОВАНИЕМ ЭЛЕКТРОННОГО ПУЧКА Саломатова Е.С., Цаплин А.И., Известия Тульского государственного университета. Технические науки. 2015. № 6-2. С. 124-134.
1507. Andrei P. Sliva, Aleksei L. Goncharov, Viktor K. Dragunov, Egor V. Terentyev, Technology of electron beam welding of pressure vessels made of steel 30KHGSA, !3-International conference on EBT , Varna 18-22 June 2018.

Работата

316. Trushnikov, Dmitriy N., Georgy M. Mladenov, and Vladimir Ya. Belenki. "Controlling the Electron Beam Focus Regime and Monitoring the Keyhole in Electron Beam Welding." *溶接学会論文集 31.4 (2013): 91s-95s.* (Japan welding society)

е цитирана в:

1508. Salomatova, E.S., Bezukladnikov, I.I., Sinani, I.L., Karunakaran, K.P., Modeling the Influence of the Penetration Channel's Shape on Plasma Parameters When Handling Highly Concentrated Energy Sources, Advances in Materials Science and Engineering, 2017, 2435079
1509. Yu. Letyagin, Benefits and Prospects of Laser Welding Application in Vacuum
1510. KnE Materials Science , IV Sino-Russian ASRTU Symposium on Advanced Materials and Processing Technology (ASRTU) , 2016 , pp.90-94, DOI: 10.18502/kms.v1i1.568
1511. НАБЛЮДЕНИЕ КАНАЛА ПРОПЛАВЛЕНИЯ В РЕНТГЕНОВСКОМ СПЕКТРЕ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, Браверман В.Я., Вестник Пермского национального исследовательского политехнического университета. Машиностроение, материаловедение. 2016. Т. 18. № 4. С. 147-156.

Работата

317. Vutova, K., Vassileva, V., & Mladenov, G. (2012). Influence of Process and Thermo-physical parameters on. the Heat Transfer at Electron Beam Melting of Cu and Ta. *Supplemental Proceedings: Materials Processing and Interfaces, In TMS 2012 -141st Annual Meeting and Exhibition, Materials Processing and Interfaces, V.1, pp.125-132.*

е цитирана в:

1512. Дипломната работа на Велико Динков Дончев, ф.н. 23960 на тема: „Оптимизация на процеса на електроннолъчево топене и рафиниране на метали“ Софийски Университет “Св. Климент Охридски”, Факултет по Математика и Информатика, Магистърска програма “Оптимизация”, направление “Приложна математика” 2013 г.
1513. http://samples.sainsburysebooks.co.uk/9781118356043_sample_386714.pdf

Работата:

- 318.** Beshkova M., Blagoev B., Kovacheva D., Mladenov G., Nurgaliev T., Effect of thermal annealing on the properties of the YBCO films grown by DC magnetron sputtering, 2009, Journal of Optoelectronics and Advanced Materials, (10) 1537-1540

е цитирана в:

1514. Dong, X., An, P., Zhang, J., Zhang, H., Li, Y., Liu, H., Ge, X., Li, Q. Superconductivity enhancement in Fe₃O₄ doped YBa₂Cu₃O_{7-δ} (2014) Journal of Superconductivity and Novel Magnetism, 27 (3), pp. 693-699.
1515. Yu, G., Bai, F., Wen, D., Zhang, H. Epitaxial growth of high-tech perovsky-phased films by off-axis magnetron sputtering (2013) Zhenkong Kexue yu Jishu Xuebao/Journal of Vacuum Science and Technology, 33 (6), pp. 578-585.
1516. Daptary, G.N., Sow, C., Sarkar, S., (...), Sil, A., Bid, A. , Effect of microstructure on the electronic transport properties of epitaxial CaRuO₃ thin films ,2017, Physica B: Condensed Matter , 511, pp. 74 -79
1517. Dong, X., Wang, S., Zhou, Y., (...), Ge, X., Li, Q. , The composite ceramics of (YBa₂Cu₃O_{7-δ})_{1-x}(Fe₃O₄)_x ,2014, Journal of Electron Spectroscopy and Related Phenomena ,196, pp. 66-70

Работата

- 319.** Беленький В.Я., Трушников Д.Н., Младенов Г., Колева Е., Оптимизация энергетического воздействия электронного пучка при ЭЛС металлов большой толщины. Вестник Пермского политехнического института “Машиностроение, материаловедение” т.15, №3, 2013, стр.33,ISSN 2224-9877

е цитирана в:

1518. А.Н.Косыцин, Р.Ю.Агафонов, Г.В.Григорьев, Разработка системы адаптивной фокусировки электронного луча при герметизации радиоэлектронной аппаратуры сложной формы, в кн. Электронно-лучевая сварка и смежные технологии, 2015, Изд.НИУ“МЭИ“, стр.333-346

Работата

- 321.** D.N. Trushnikov, G.M. Mladenov, V.Y. Belenkiy, E.G. Koleva and S. V. Varushkin Current-driven ion-acoustic and potential-relaxation instabilities excited in plume during electron beam welding, AIP Advances, 2014, V. 4, 4, doi: 10.1063/1.4870944

е цитирана в:

1519. ИССЛЕДОВАНИЕ ПРОЦЕССОВ В ПЛАЗМЕННОМ ФАКЕЛЕ ПРИ ЛАЗЕРНОЙ СВАРКЕ Летягин И.Ю. В сборнике: Роль фундаментальных исследований при реализации "Стратегических направлений развития материалов и технологий их переработки на период до 2030 года. Сборник докладов III Всероссийской научно-технической конференции. ФГУП «ВИАМ». 2016. С. 21.
1520. THE STUDIES OF PLASMA TORCH PROCESSES BY LASER BEAM

WELDING Letyagin I.Y., Materials Science Forum. 2017. T. 893 MSF. C. 190-194.

1521. ОЦЕНКА СКВОЗНОГО ПРОПЛАВЛЕНИЯ ПРИ ЛАЗЕРНОЙ СВАРКЕ НА ОСНОВЕ РЕГИСТРАЦИИ ПЛАЗМЕННОГО ФАКЕЛА, Летягин И.Ю., Федосеева Е.М., Вестник Пермского национального исследовательского политехнического университета. Машиностроение, материаловедение. 2016. Т. 18. № 1. С. 84-100.

Работата

- 322. E.G. Koleva, G.M. Mladenov, D.N. Trushnikov, V.Ya. Belenkiy, Signal emitted from plasma during electron-beam welding with deflection oscillations of the beam. J. of Materials Processing Technology, 214, 2014, pp. 1812-1819**

е цитирана в

1522. E Zalnezhad, AMS Hamuda, G Faraji, Shamshirband, S., TiO₂ nanotube coating on stainless steel 304 for biomedical applications - Ceramics International, 41 (2), pp. 2785-2793, 2015 – Elsevier
 1523. TiO₂ nanotube coating on stainless steel 304 for biomedical applications, E Zalnezhad, AMS Hamuda, G Faraji, S Shamshirband- Researchgate net
 1524. E Zalnezhad, AMS Hamuda, G Faraji, S Shamshirband - umexpert.um.edu.my, [PDF] TiO₂ nanotube coating on stainless steel 304 for biomedical applications
 1525. Salomatova, E.S. 2016, Formation of a secondary current signal in electron beam welding of dissimilar materials, Global Journal of Pure and Applied Mathematics 12 (1), pp. 657-676
 1526. Mei, Y., Liu, Y., Liu, C., (...), Guo, Q., Li, H. ,2016, Effect of base metal and welding speed on fusion zone microstructure and HAZ hot-cracking of electron-beam welded Inconel 718 , Materials and Design , 89, pp. 964-977
 1527. Ertel, J., Bárta, J., Marônek, M. , Case study of electron beam welding in automotive industry , 2015 , Annals of DAAAM and Proceedings of the International DAAAM Symposium 2015-January, pp. 1138-1142
 1528. Liu, Y., Guo, Q., Li, C., (...), Huang, Y., Li, H. . Recent progress on evolution of precipitates in Inconel 718 superalloy , 2016 , Jinshu Xuebao/Acta Metallurgica Sinica , 52 (10), pp. 1259-1266
 1529. Growth of Graphene on Stainless Steel by Thermal Chemical Vapor Deposition A. Ruammitree, D. Phokharatkul and A. Wisitsoraat. Siam Physics Congress 2016,pp.40-43
 1530. АП Ериков, АР Магомедов , ИСПОЛЬЗОВАНИЕ АДДИТИВНЫХ ТЕХНОЛОГИЙ ДЛЯ ВОССТАНОВЛЕНИЯ МЕТАЛЛИЧЕСКИХ ДЕТАЛЕЙ ТРАНСПОРТНЫХ СРЕДСТВ В ОБЛАСТИ ВЫСОКИХ ..., 2018 - elibrary.ru
 1531. ЛН Кротов, ЕЛ Кротова, НА Мусихин РЕКОНСТРУКЦИЯ ФОРМЫ КАНАЛА ПРОПЛАВЛЕНИЯ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ ПО ПАРАМЕТРАМ ПРОНИКАЮЩЕГО РЕНТГЕНОВСКОГО ... - 2016 - elibrary.ru
 1532. Ериков А.П., Магомедов А.Р. ,ИСПОЛЬЗОВАНИЕ АДДИТИВНЫХ ТЕХНОЛОГИЙ ДЛЯ ВОССТАНОВЛЕНИЯ МЕТАЛЛИЧЕСКИХ ДЕТАЛЕЙ ТРАНСПОРТНЫХ СРЕДСТВ СПЕЦИАЛЬНОГО НАЗНАЧЕНИЯ. В сборнике: РАЗВИТИЕ НАУЧНОЙ

- КОНКУРЕНЦИИ В ОБЛАСТИ ВЫСОКИХ ТЕХНОЛОГИЙ. сборник статей Международной научно-практической конференции. 2018. С. 8-12.
1533. FORMATION OF A SECONDARY CURRENT SIGNAL IN ELECTRON BEAM WELDING OF DISSIMILAR MATERIALS, Salomatova E.S., Global Journal of Pure and Applied Mathematics. 2016. Т. 12. № 1. С. 657-676.
1534. РЕКОНСТРУКЦИЯ ФОРМЫ КАНАЛА ПРОПЛАВЛЕНИЯ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ ПО ПАРАМЕТРАМ ПРОНИКАЮЩЕГО РЕНТГЕНОВСКОГО ИЗЛУЧЕНИЯ, Кротов Л.Н., Кротова Е.Л., Мусихин Н.А., Дефектоскопия. 2016. № 10. С. 34-
1535. DIRECT PROBLEM FORMULATION OF THE SECONDARY X-RAY SIGNAL FORMATION AT ELECTRON-BEAM WELDING WITH OSCILLATION, Musikhin N.A., Krotova E.L. Инновационные процессы в исследовательской и образовательной деятельности. 2016. Т. 1. С. 50-54.
1536. USE OF A SECONDARY CURRENT SENSOR IN PLASMA DURING ELECTRON-BEAM WELDING WITH FOCUS SCANNING FOR PROCESS CONTROL, Krotova E., Koleva E. Journal of Sensors. 2016. Т. 2016. С. 5302681.
1537. Krotova, E.L., Musikhin, N.A., Reconstructing the melting channel shape in electron-beam welding from the parameters of penetrating X-ray radiation. Part I. Posing inverse geometrical problem, 2016, Russian Journal of Nondestructive Testing, 52(10), c. 576-582
1538. Wang, L., Gao, M., Zhang, C., Zeng, X., Effect of beam oscillating pattern on weld characterization of laser welding of AA6061-T6 aluminum alloy, 2016, Materials and Design, 108, c. 707-717

Работата

- 326. E. Koleva, G. Mladenov, M. Kardjiev, D. Todorov, Electron beam characterization at changes of EBW process parameters, Elektrotechnica & Elektronika, v.56, No 5-6, pp 46-55, 2014, ISSN 0861-4717**

е цитирана в:

1539. Aman Kaur, Colin Ribton and W. Balachandaran, Electron beam characterisation methods and devices for welding equipment, Journal of Materials Processing Technology, PROTEC-D-14-01944

Работата:

- 327. Беленький В.Я., Кротов Л.Н., Ольшанская Т.В., Абдуллин А.А., Младенов Г.М., Колева Е.Г., Быков С.И. Электронно-лучевая сварка высокопрочных сталей с бронзой с использованием динамического позиционирования электронного пучка, Сварка и диагностика. 2014. № 1. стр. 48-49.**

е цитирана в

1540. И.В. Ситников, ПРИМЕНЕНИЕ ОСЦИЛЛЯЦИИ ЭЛЕКТРОННОГО ПУЧКА ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ, 2015, MASTER'S JOURNAL, № 1, с. 87-93

1541. Salomatova E.S., Trushnikov D.N., Permyakov G.L., ELECTRON BEAM WELDING OF ALUMINUM ALLOY ALMG6 WITH A DYNAMICALLY POSITIONED ELECTRON BEAM, The International Journal of Advanced Manufacturing Technology. 2017. Т. 89. № 9-12. С. 3439-3450.
1542. ВЛИЯНИЕ ПАРАМЕТРОВ ПРОЦЕССА ЭЛС НА СТРУКТУРУ И МЕХАНИЧЕСКИЕ СВОЙСТВА СВАРНЫХ СОЕДИНЕНИЙ АУСТЕНИТНОЙ СТАЛИ С БРОНЗАМИ В ПРОИЗВОДСТВЕ КОНСТРУКЦИЙ ЭНЕРГЕТИЧЕСКОГО МАШИНОСТРОЕНИЯ Драгунов В.К., Гончаров А.Л., Портнов М.А., Сварочное производство. 2016. № 7. С. 33-40.
1543. ЭЛЕКТРОННО-ЛУЧЕВАЯ СВАРКА С ПРИМЕНЕНИЕМ ПРИСАДОЧНЫХ МАТЕРИАЛОВ Ситников И.В., Саломатова Е.С., В книге: ТЕХНИКА И ТЕХНОЛОГИИ МАШИНОСТРОЕНИЯ. материалы V Международной студенческой научно-практической конференции. Омский государственный технический университет. 2016. С. 313-318.
1544. SIMULATION OF THERMAL PROCESSES AT ELECTRON-BEAM WELDING WITH BEAM SPLITTING, Salomatova E.S., Global Journal of Pure and Applied Mathematics. 2016. Т. 12. № 4. С. 3525-3534.

Работата:

328. P. Durina, A. Bencurova, A. Konecnikova, I. Kostic, K. Vutova, E. Koleva, G. Mladenov, P. Kus and A. Plecenik, Patterning of structures by e-beam lithography and ion etching for gas sensor applications, 18th International Summer School on Vacuum, Electron and Ion Technologies, IOP Publishing, Journal of Physics: Conference Series 514 (2014) 012037, doi:10.1088/1742-6596/514/1/012037

е цитирана в:

1545. L.Z. Liu;S.B. Tian;Y.Z. Long;W.X. Li;H.F. Yang;J.J. Li;C.Z. Gu. Tunable Periodic Graphene Antidot Lattices Fabricated by E-Beam Lithography and Oxygen Ion Etching, Vacuum, v.105, 2014, pp. 21–25

Работата

329. G. Mladenov, K. Vutova, V. Vassileva, E. Georgieva, E. Petrov, V. Pankov, and V. Petrov. Recycling of refractory and reactive metals scrap and their alloys through electron beam method. Exploring the availability of metal scrap and marketing analysis, economic and environmental effect evaluation of application of ebm for recycling of refractory and reactive metals. In Vutova K., editor, Proceedings “Research and developement of new materials on the base of recycling of reactive and refractory metals scrap through electron beam method”, pages 9–20. Institute of Electronics, BAS, 2012.

е цитирана в:

1546. Дипломната работа на Велико Динков Дончев, ф.н. 23960 на тема: „Оптимизация на процеса на електроннольчево топене и рафиниране

на метали“ Софийски Университет “Св. Климент Охридски”, по Математика и Информатика, Магистърска програма “Оптимизация”, направление “Приложна математика” 2013 г.

Работата

- 334. G. Mladenov, and K. Vutova Electron beam welding of metals in vacuum Bulgarian Acad Sci News 6 22 2005 1 2http://www.bas.bg/basnews/novosti/novosti200506Us.pdf**

е цитирана в:

1547. CHARACTERIZATION OF ELECTRON BEAM WELDED AA2024 Wanjara P., Brochu M., Vacuum. 2010. v. 85. № 2. pp. 268-282.

Работата

- 335. D. N. Trushnikov, E. Koleva, G. Mladenov, A. V. Shcherbakov, Weld Formation Control at Electron Beam Welding with Beam Oscillations, Vestnik SibGAU, 2014, No. 3(55), P. 224–230**

е цитирана в:

1548. ВЕ ЩАВЛЕВ АВТОМАТИЗАЦИЯ УПРАВЛЕНИЯ ФОКУСИРОВКОЙ ПРИ ЭЛЕКТРОННО-ЛУЧЕВОЙ СВАРКЕ НА ОСНОВЕ ВТОРИЧНОГО ЭЛЕКТРОННОГО ТОКА В ..., - pstu.ru
 1549. USE OF A SECONDARY CURRENT SENSOR IN PLASMA DURING ELECTRON-BEAM WELDING WITH FOCUS SCANNING FOR PROCESS CONTROL, Krotova E., Journal of Sensors. 2016. T. 2016. C. 5302681.

Работата

- 336. Elena G. Koleva, Georgi M. Mladenov, Renewable energy and energy efficiency in Bulgaria, Progress in Industrial Ecology – An International Journal, Vol. 8, No. 4, (2014), pp.257-278**

е цитирана в:

1550. Strang, K.D., Feasibility of a hidden renewable energy hydro power storage battery , 2017, Journal of Energy Storage, 13, c. 164-175
 1551. Strang, K.D., Innovative closed-loop underground pumped hydroelectricity geothermal storage system, International Journal of Environmental Studies, 74(3), c. 363-385
 1552. Khaled, M., Beltagy, H., Shaito, A., El Hage, H., Ramadan, M., Heating residential water using 2. parabolic trough concentrators: Theoretical calculations and analysis, 2016 , 3. 4. Progress in Industrial Ecology, 10(4), c. 321-333
 1553. Roy Hendroko, Satriyo Krido Wahono, Praptiningsih Gamawati Adinurani et al., 6. Characterisation of Arabica Coffee Pulp - Hay from Kintamani - Bali as Prospective 7. Biogas Feedstocks, January 2018, MATEC Web of Conferences 164(40):01039 8. DOI 10.1051/matecconf/2018164010399.

Работата

- 338. D. N. Trushnikov and G. M. Mladenov, Numerical model of the plasma formation at electron beam welding, JOURNAL OF APPLIED PHYSICS 117, 1, (2015), DOI: 10.1063/1.4905193**

е цитирана в:

1554. Salomatova, E.S., Bezukladnikov, I.I., Sinani, I.L., Karunakaran, K.P., Modeling the Influence of the Penetration Channel's Shape on Plasma Parameters When Handling Highly Concentrated Energy Sources, Advances in Materials Science and Engineering , 2017, 2435079
1555. Krotova E., Koleva E. Use of a secondary current sensor in plasma during electron-beam welding with focus scanning for process control, Journal of Sensors. 2016. Т. 2016. С. 5302681
1556. Belenkiy, V.Y. The model of formation of a non-self-sustained discharge in the plasma in electron beam welding (2017) Welding International, 31 (6), pp. 493-497.

Книгата

341. Г.Младенов, Д.Трушников, В.Беленький, Е.Колева, Электронно-лучевая сварка, Издательство Пермский Национальный Политехнический Университет, г.Пермь, Русская Федерация, 2015 г.

е цитирана в:

1557. E.Salomatova, Investigation of Dynamic Positioning of the Electron Beam on the Chemical Composition of Weld in Electron Beam Welding, Global Journal of Pure and Applied Mathematics. ISSN 0973-1768 Volume 12, Number 4 (2016), pp. 3535-3543

Работата

343. В.Я.Беленький, Д.Н.Трушников, Е.М.Федосеева, Г.Младенов, Е.Колева, Лазерная сварка в вакууме-перспективная сварочная технология изготовления изделий ответственного назначения, Вестник ПНИПУ, Машиностроение, материаловедение, т.16, № 4, 2014, стр.71-81

е цитирана в:

1558. THE STUDIES OF PLASMA TORCH PROCESSES BY LASER BEAM WELDING Letyagin I.Y. Materials Science Forum. 2017. Т. 893 MSF. С. 190-194.
1559. Летягин И.Ю., О СВЯЗИ ЭНЕРГЕТИЧЕСКИХ ПАРАМЕТРОВ ВТОРИЧНО-ЭМИССИОННЫХ СИГНАЛОВ ИЗ ЗОНЫ ЛАЗЕРНОЙ СВАРКИ В ВАКУУМЕ С ПАРАМЕТРАМИ ПРОПЛАВЛЕНИЯ МЕТАЛЛА, Вестник Пермского национального исследовательского политехнического университета. Машиностроение, материаловедение. 2017. Т. 19. № 3. С. 193-206.
1560. ОЦЕНКА СКВОЗНОГО ПРОПЛАВЛЕНИЯ ПРИ ЛАЗЕРНОЙ СВАРКЕ НА ОСНОВЕ РЕГИСТРАЦИИ ПЛАЗМЕННОГО ФАКЕЛА, Летягин И.Ю., Федосеева Е.М., Вестник Пермского национального исследовательского политехнического университета. Машиностроение, материаловедение. 2016. Т. 18. № 1. С. 84-100.

Работата

344. K. Vutova, V. Donchev, V. Vassileva, G. Mladenov Thermal Processes in Electron- Beam Treatment of Metals , Metal Science and Heat Treatment 03/2014; v.55 (No11-12): pp.628-635. DOI: 10.1007/s11041-014-9680-6

е цитирана в:

1561. Matlák, J., Doležal, P., Zapletal, J., Vančura, F., Dlouhý, I. , Electron beam surface quenching of X37CrMoV51 tool steel swages , 2016 , Manufacturing Technology , 16 (4), pp. 744-749

1562. Investigation of tantalum recycling by electron beam melting. Vutova K., Vassileva V., Koleva E., Munirathnam N., Amalnerkar D.P., Tanaka T. Metals. 2016. Т. 6. № 11. С. 287.

Работата

- 349а. R Andok, A Bencurova, K Vutova, E Koleva, P Nemec, P Hrkut, I Kostic, G. Mladenov, Study of a new positive tone electron beam resist CSAR62 at 40 keV electron energy. Journal of Physics: Conference Series 700 (1), 012012 (<http://jpcs.iop.org>) ISSN: 1742-6588 , March 2016, DOI: 10.1088/1742-6596/700/1/012030**

е цитирана в:

1563. Jun Taniguchi. In book: Micro and Nano Fabrication Technology, January 2018, DOI 10.1007/978-981-10-6588-0_17-1

Работата

- 350а. Koleva E., Mladenov G., Todorov D., Koleva L., Kardjiev M. Electron beam characterization by a tomographic approach (2016) Journal of Physics: Conference Series, 700 (1) , art. no. 012013**

е цитирана в:

1564. Shcherbakov, A.V., Rodyakina, R.V., Kozhechenko, A.S., (...), Goncharov, A.L., Dragunov, V.K., An experimental study of current-density distributions of a technological electron beam, Technical Physics Letters, 2017,43(11), c. 958-960
 1565. AV Shcherbakov, RV Rodyakina... An experimental study of current-density distributions of a technological electron beam - Technical Physics ..., 2017 – Springer
 1566. Экспериментальное исследование распределений плотности тока технологического электронного пучка, Щербаков А.В., Родякина Р.В., Кожеченко А.С., Гапонова Д.А., Гончаров А.Л., Драгунов В.К. Письма в Журнал технической физики. 2017. Т. 43. № 21. С. 10-15.

Работата

- 352. Koleva, E., Kardjiev, M., Mladenov, G., Automation of the electron-beam welding process, Journal of Physics: Conference Series 2016, 700 (1), 012012**

е цитирана в:

1567. V. Dzharov, P. Yordanov, Automation control of EBW installation by SIMATIC S7-300 PLC, “E+E”, 5-6/2016 , pp.162-165