

**СПИСЪК**  
на цитати на научните трудове на С.С. Тинчев

1. А.В. Гусев, В.Н. Руденко, Регенеративные процессы в радиочастотном джозефсоновском интерферометре, ЖЭТФ, 88, N 1 (1985), 134-144.  
Цитирана е работа N 5a.
2. А.В. Гусев, В.Н. Руденко, Радиочастотный сквид в режиме вне плато, Радиотехника и электроника, 31, N 7 (1986), 1415-1421.  
Цитирана е работа N 5a.
3. В.В. Данилов, Теоретическое исследование сигнальных и шумовых характеристик сверхпроводящих квантовых интерференционных устройств, диссертация, Москва, МГУ, 1981 год.  
Цитирана е работа N 3б.
4. В.В. Данилов, Теоретическое исследование сигнальных и шумовых характеристик сверхпроводящих квантовых интерференционных устройств, диссертация, Москва, МГУ, 1981 год.  
Цитирана е работа N 5a.
5. В.В. Данилов, Теоретическое исследование сигнальных и шумовых характеристик сверхпроводящих квантовых интерференционных устройств, диссертация, Москва, МГУ, 1981 год.  
Цитирана е канд. диссертация на С.С. Тинчев.
6. D. Klausgretz, L. Storm, On the excess noise of DC current-carrying thin metal wires in dilute gases of different kind and pressure, Z. Phys. B, 61, No.1 (1985).  
Цитирана е работа N 12.
7. К.К. Лихарев, Введение в динамику джозефсоновских переходов, М., Наука, 1986.  
Цитирана е работа N 8.
8. К.К. Лихарев, Введение в динамику джозефсоновских переходов, М., Наука, 1986.  
Цитирана е работа N 11.
9. K.K. Likharev, Dynamics of Josephson junction and circuits, Gordon and Breach Science Publishers, New York, London, 1986.  
Цитирана е работа N 8.
10. K.K. Likharev, Dynamics of Josephson junction and circuits, Gordon and Breach Science Publishers, New York, London, 1986.  
Цитирана е работа N 11.
11. N. Khare, A. Gupta, S. Chaudhry, S.K. Arora, V.S. Tomar and V.N. Ojha, Fabrication and performance of high  $T_c$  two hole bulk and single hole thick film RF SQUIDS at 77 K, IEEE Trans. Magn., vol. 27, No.2 (1991), 3029-3031.  
Цитирана е работа N 33.
12. A.I. Braginski, Progress and trends on high- $T_c$  superconducting electronics, FED Journal, vol.1(1990).  
Цитирана е работа N 33.
13. A.I. Braginski, Progress and trends on high- $T_c$  superconducting electronics, FED Journal, vol.1(1990).  
Цитирана е: S.S. Tinchev private information.

14. N. Khare, A.K. Gupta, S. Chaudry and V.S. Tomar, Behavior of thick film BiSrCaCuO RF SQUID at 77K, Solid State Communications, vol.76, No. 7, pp. 929-930, 1990.

Цитирана е работа N 33.

15. A.K. Gupta, N. Khare, S. Chaudhry, S.K. Arora and V.S. Tomar, Performance of YBaCuO thick-film RF SQUID at 77 K, Pramana - J. Phys., vol.35, No.5 (1990), pp. L509-L513.

Цитирана е работа N 33.

16. G. Cui, Y. Zhang, K. Herrmann, Ch. Buchal, J. Schubert, W. Zander, A.I. Braginski and C. Heiden, Properties of RF-SQUIDs fabricated from epitaxial  $\text{YBa}_2\text{Cu}_3\text{O}_7$  films, Supercond. Sci. Technol., vol.4 (1991), 130-132.

Цитирана е: Tinchev S.S., 1990 (unpublished data).

17. G.J. Cui, K. Hermann, Y. Zhang, C.L. Jia, Ch. Buchal, J. Schubert, W. Zander, A.I. Braginski and C. Heiden, Characterization of RF SQUIDs fabricated from epitaxial  $\text{YBa}_2\text{Cu}_3\text{O}_7$  films, Nonlinear Superconductive Electronics and Josephson Devices, Plenum Press, 1991.

Цитирана е: S.S. Tinchev, unpublished results, 1990.

18. A. Cavalleri, M. Cerdonio, G. Fontana, G. Jung, R. Mezzena, S. Vitale, Simple low noise ultra high frequency R.F. SQUID system, Proc. Low Temperature Engineering and Cryogenic Conference 1990 (LTERC90), Southampton, UK, 17-19 July 1990, Ed. M.J. Burton, R.N. Richardson, Institute of Cryogenics, University of Southampton.

Цитирана е работа N 16.

19. R. Chandra, A.K. Gupta, N. Khare, V.S. Tomar, S.K. Arora, V. N. Ojha, B.S. Khurana, S. Singh add B.K. Das, Fabrication and characterisation of high  $T_c$  superconducting masnetic shield, IEEE Trans. Magn., vol.27, No. 2, March 1991, 2210-2213.

Цитирана е работа N 33

20. A. Braginski, High Temperature Josephson Devices, Physica C, vol. 185 (1991), Part 1, 391-340.

Цитирана е работа N 37.

21. A. Braginski, High Temperature Josephson Devices, Physica C, vol. 185 (1991), Part 1, 391-340.

Цитирана е работа N 38.

22. N. Khare, S. Chaudhary, A.K. Gupta and V.S. Tomar, Performance of BSCCO Thick Film RF-SQUIDs, Springer Proc. in Phys. ,vol.64, Superconducting Devices and Theier Applications, Eds: H. Koch, H. Luebbig, Springer-Verlag, Berlin Heidelberg 1992.

Цитирана е работа N 37.

23. S. Chaudhary, N. Khare, A.K. Gupta, and V.S. Tomar, Performance of Bi-Sr-Ca-Cu-O thick film rf SQUIDs at liquid nitrogen temperatures, J. Appl. Phys., vol.72. No.3 (1992), 1172-1174.

Цитирана е работа N 37.

24. A.K. Gupta, High- $T_c$  Josephson Junction - a review, Physical and Material properties of High Temperatuere Superconductors, Eds.: S.K. Malik and S.S. Shah, Nova Science Publisher, New York, USA.

Цитирана е работа N 37.

25. M.Mueck, Progress in RF SQUIDs, IEEE Trans. Appl. Supercond., vol.3, No.1 (1993), 2003- .

Цитирана е работа N 33.

26. G.-B. Friedl, Praeparation und Charakterisierung der Rauschmechanismen von YBaCuO Stufencontaut dc-SQUIDs mit sehr hoher Energieempfindlichkeit, Dissertation, Universitaet Augsburg, Juli 1993.  
 Цитирана е работа N 37.
27. G.-B. Friedl, Praeparation und Charakterisierung der Rauschmechanismen von YBaCuO Stufencontaut dc-SQUIDs mit sehr hoher Energieempfindlichkeit, Dissertation, Universitaet Augsburg, Juli 1993.  
 Цитирана е работа N 43.
28. R. Gross, P. Chaudhari, Status of dc-SQUIDs in the High Temperature Superconductors, Principles and Applications of Superconducting Quantum Interference Devices, Ed. A. Barone, World Scientific, Singapore, 1991.  
 Цитирана е работа N 37.
29. M. Mueck, High- $T_c$  rf SQUID magnetometers, Superconductive Devices and Circuits, Proc. SPIE, 25-27 January 1994, Los Angeles, California.  
 Цитирана е работа N 33.
30. M. Mueck, High- $T_c$  rf SQUID magnetometers, Superconductive Devices and Circuits, Proc. SPIE, 25-27 January 1994, Los Angeles, California.  
 Цитирана е работа N 37.
31. M. Mueck, High- $T_c$  rf SQUID magnetometers, Superconductive Devices and Circuits, Proc. SPIE, 25-27 January 1994, Los Angeles, California.  
 Цитирана е работа N 38.
32. M. Mueck, High- $T_c$  rf SQUID magnetometers, Superconductive Devices and Circuits, Proc. SPIE, 25-27 January 1994, Los Angeles, California.  
 Цитирана е работа N 47.
33. N.S. Alzayed, C. Fan, D.F. Lu, K.W. Wong, M. Chester and D.E. Knapp, Deep nondestructive testing using bulk high  $T_c$  rf-SQUID, IEEE Trans. Appl. Supercond., vol. 4, No.2 (1994), 81-86.  
 Цитирана е работа N 43.
34. J. Sloggett, D.L. Dart, C.P. Foley, R.A. Binks, N. Savvides and A. Katsaros, Noise in thin-film  $\text{YBa}_2\text{Cu}_3\text{O}_7$  step edge junction RF SQUIDs, Supercond. Sci. Technol., vol. 7, No.5 (1994), 260-264.  
 Цитирана е работа N 37.
35. J. Sloggett, D.L. Dart, C.P. Foley, R.A. Binks, N. Savvides and A. Katsaros, Noise in thin-film  $\text{YBa}_2\text{Cu}_3\text{O}_7$  step edge junction RF SQUIDs, Supercond. Sci. Technol., vol. 7, No.5 (1994), 260-264.  
 Цитирана е работа N 38.
36. M. Kuhn, Planare UHF-Filter aus Supraleitern mit hoher Sprungtemperatur, VDI Fortschrittsberichte, Reihe 9: Elektronik, Nr. 189, 1994 (Dissertation).  
 Цитирана е работа N 42.
37. S.K. Arora, A.K. Gupta, N. Khare, R. Chandra, V.S. Tomar, Performance of two-hole YBCO RF SQUID in flux locked-loop mode at 77 K, Pranama J. Phys., vol.39, No. 4(1992), 381-390.  
 Цитирана е работа N 33.
38. C.X. Fan, The AC Josephson and DC Superconducting quantum interference device, Supercond. Sci. Technol., vol.5, No. 1, (1992), 22-26.  
 Цитирана е работа N 33.
39. N. Khare, A.K. Gupta, S. Chaudhry, S.V. Tomar, RF SQUID behaviour in YBCO thick-films up to 85 K, Supercond., vol.4, No. 3(1991), 107-109.  
 Цитирана е работа N 33.

40. N. Khare, A.K. Gupta, S. Chaudhry, S.V. Tomar, RF SQUID behaviour in YBCO thick-films up to 85 K, Supercond., vol.4, No. 3(1991), 107-109.

Цитирана е работа N 37.

41. A.K. Gupta, S. Chaudhry, N. Khare, V.S. Tomar, Observation of RF SQUID behaviour in BSCCO thick-film upto 95 K, Solid State. Comm., vol. 78, No. 11(1991), 931-934.

Цитирана е работа N 33.

42. A.K. Gupta, S. Chaudhry, N. Khare, V.S. Tomar, Observation of RF SQUID behaviour in BSCCO thick-film up to 95 K, Solid State. Comm., vol. 78, No. 11(1991), 931-934.

Цитирана е работа N 37.

43. R. Gross, High Temperature Superconducting Josephson Junctions - Technical Requirements, Performance, and Physical Background, Int. Workshop on HTS Electron Devices, Whistler Mountain (1994), pp. 19-24.

Цитирана е работа N 60 (unpublished).

44. А.А. Апостолов, Ч. Велев, В. Милушев, Биомагнетизъм, Актуални проблеми на науката, БАН, XIV, бр. 5, 1987 год.

Цитиран е доклад: Tinchev SS and Taslakov MA, Superconducting quantum interferometer for biomagnetic measurements, in Proc. Intern. Symposium on Biophysics of Extracellular Potential Fields, June 2-5, 1987, Varna.

45. S. Tolpygo, S. Shokhor, B. Nadgorny, J.J. Lin, M. Gurvitch, A. Bourdillon, S. Y. Hou, J.M. Philips, High-quality  $\text{YBa}_2\text{Cu}_3\text{O}_7$  Josephson-junctions made by direct electron-beam writing, Appl. Phys. Lett., vol. 64, No. 23(1994), 3191.

Цитирана е работа N 37.

46. S. Tolpygo, S. Shokhor, B. Nadgorny, J.J. Lin, M. Gurvitch, A. Bourdillon, S. Y. Hou, J.M. Philips, High-quality  $\text{YBa}_2\text{Cu}_3\text{O}_7$  Josephson-junctions made by direct electron-beam writing, Appl. Phys. Lett., vol. 64, No. 23(1994), 3191.

Цитирана е работа N 49.

47. A. Cochran, G.B. Donaldson, L.N.C. Morgan, R.M. Bowman, K. Kirk, SQUIDs for NDT - The technology and its capabilities, British Journal of Non-destructive testing, vol. 35, No.4(1993), 173-182.

Цитирана е работа N 43.

48. M. Mueck, J. Dechert, J. Gail, M. Kreutzbruck, S. Schoene, R. Weidel, Response of radio frequency superconducting quantum interference devices to electromagnetic interference, Rev. Sci. Instrum., 66, No. 9 (1995), 4690-4693.

Цитирана е работа N 37.

49. M. Seitz, G. Saemann-Ischenko, B. Sipos, G. Daalmans, F.R. Boemmel, G. Gieres, H. Schmidt, G. Vollnhals, B. Elia, P. Berberich, H. Kinder, Biepitaxial Josephson junctions and dc SQUIDs on MgO substrates, Applied Superconductivity, vol.2, Ed. H. C. Freyhardt (1993), 1359-1362.

Цитирана е работа N 37.

50. M.V. Pedyash, D. H. A. Blank and H. Rogalla, DC SQUIDS based on  $\text{YBaCuO}$  nanobridges, IOP Conf. Ser., EUCAS'95, 1548-1552.

Цитирана е работа N 44.

51. F. Machalett, P. Seidel, E. Heinz, E. Steinbeiss, T. Eick, K. Steenbeck, W. Brodkorb, U. Huebner, Submicron ion beam modification of high- $T_c$  superconducting bridges, Nucl. Instrum. Meth. B(1996), 114, No.1-2, 34-41.

Цитирана е работа N 38.

52. F. Machalett, P. Seidel, E. Heinz, E. Steinbeiss, T. Eick, K. Steenbeck, W. Brodkorb, U. Huebner, Submicron ion beam modification of high-T<sub>c</sub> superconducting bridges, Nucl. Instrum. Meth. B(1996), **114**, No.1-2, 34-41.

Цитирана е работа N 41.

53. F. Machalett, P. Seidel, E. Heinz, E. Steinbeiss, T. Eick, K. Steenbeck, W. Brodkorb, U. Huebner, Submicron ion beam modification of high-T<sub>c</sub> superconducting bridges, Nucl. Instrum. Meth. B(1996), **114**, No.1-2, 34-41.

Цитирана е работа N 44.

54. P. Seidel, Josephson junction for integrated high-T<sub>c</sub> superconducting devices, EUCAS'95, unpublished.

Цитирана е работа N 37.

55. Y. Li, F. Machalett, S. Linsen, F. Schmiedl, P. Seidel, Transport characteristics and structural analysis of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> thin films implanted with argon ions, Phys. Stat. Sol. (a), **147**, No.1(1995), 119-128.

Цитирана е работа N 44.

56. P. Seidel, High-T<sub>c</sub> Josephson junctions, DC SQUIDs and arrays, Proc. Internat. Conf. Nonlinear Supercond. Devices and high-T<sub>c</sub> Materials, Capri, 8-13 Oct. 1994.

Цитирана е работа N 37.

57. P. Seidel, V. Zakosarenko, F. Schmidl, L. Doerrer, H. Schneidewind, S. Linsen, E.V. Illichev, M. Darula, Investigation of thin film DC SQUID gradiometer using a single YBCO layer, IEEE Trans. Appl. Supercond., **5**, No. 2 (1995), 2931-2934.

Цитирана е работа N 48.

58. S.K. Tolpygo, S. Shokhor, B. Nadgorny, L.-Y. Lin, M. Gurvitch, S.Y. Hou, J.M. Philips, Normal-state properties and Josephson effect in HTS weak links produced by electron beam, IEEE Trans. Appl. Supercond., **5**, No. 2 (1995), 2521-2526.

Цитирана е работа N 50.

59. S.K. Tolpygo, S. Shokhor, B. Nadgorny, L.-Y. Lin, M. Gurvitch, S.Y. Hou, J.M. Philips, Normal-state properties and Josephson effect in HTS weak links produced by electron beam, IEEE Trans. Appl. Supercond., **5**, No. 2 (1995), 2521-2526.

Цитирана е работа N 37.

60. S.K. Tolpygo, S. Shokhor, B. Nadgorny, L.-Y. Lin, M. Gurvitch, S.Y. Hou, J.M. Philips, Normal-state properties and Josephson effect in HTS weak links produced by electron beam, IEEE Trans. Appl. Supercond., **5**, No. 2 (1995), 2521-2526.

Цитирана е работа N 44.

61. V. Polushkin, S. Ushakin, S. Knappe, H. Koch, B. David and D. Grundler, Current-phase relation of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> step edge junction, IEEE Trans. Appl. Supercond., **5**, No. 2 (1995), 2790-2793.

Цитирана е работа N 50.

62. X. He, J. Musolf, E. Waffenschmidt, K. Heime, H. Wolf, K. Pierz, Silicon ion implantation of YBaCuO films for bolometer applications, IEEE Trans. Appl. Supercond., **5**, No. 2 (1995), 2439-2442.

Цитиран е доклад N 29.

63. Y.M. Zhang, D. Winkler, P.-A. Nilsson and T. Claeson, Josephson flux-flow resonances in overdamped long YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> grain-boundary junctions, Phys. Rev. B, 51 No. 13 (1995), 8684-8687.

Цитирана е работа N 50.

64. G.A. Ovsyannikov, Josephson junctions in HTSC films and their possible applications at MW frequencies, NATO Advanced Research Workshop "Microwave

physics and Technique”, 30 Sept. - 5 Oct., 1996, Sozopol, Bulgaria, Kluver Academic Publishers., 3/33, eds. H. Groll and I. Nedkov, 125-140.

Цитирана е работа N 53.

65. C.X. Fan, G.G Siu, The AC Josephson and DC Superconducting Quantum Interference Device (SQUID) effects in YBCO large bridge devices at 77 K, Superconductor Science & Technology, 5, No. 1 (1992), 22-26.

Цитирана е работа N 33.

66. V.I. Shnyrkov, V.P. Timofeev, G.M. Tsoy, V.A. Khlus, A.V. Demin, Low-temperature noise of the magnetic-flux in HTSC SQUIDs, Fizika Nizkikh temperatur, 21, No. 6 (1995), 604-612.

Цитирана е работа N 51.

67. Kostadinov I.Z. et al., Investigations of the New High-Temperature Superconductor BiSrCaCu2Ox, Physica C, 1988, v.153, No.June, pp.627-628.

Цитирана е работа N 24.

68. Barth R. et al. Electron-Beam Lithography and Ion-Implantation Techniques for Fabrication of High-T<sub>c</sub> Josephson Junctions, Microelectronic Engineering, 1996, v.30, N.1-4, pp.407-410.

Цитирана е работа N 33.

69. Ripka P., Noise and Stability of Magnetic Sensors, J.of Magnetism and Magnetic Materials, 1996, v.158, pp.424-427.

Цитирана е работа N 48.

70. Pedyash M.V. et al., Superconducting Quantum Interference Devices Based on YBaCuO Nanobridges, Appl.Phys.Lett., 1996, v.68, N.8, pp.1156-1158.

Цитирана е работа N 44.

71. Machalett F and Muhle R., Praseodymium Alloy Ion-Source for Focused Ion-Beam Implantation in Superconductors, Rev.Sci.Instrum., 1996, v.67, N.3 Pt.2, pp.1015-1017.

Цитирана е работа N 44.

72. Hilgenkamp H., Mannhardt J., Mayer B., Implication of d(x<sub>2</sub>-y<sub>2</sub>) Symmetry and Faceting for the Transport Properties of Grain Boundaries in High-T<sub>c</sub> Superconductors, Physical Review B - Condensed Matter, 1996, v.53, N.21, pp.14586-14593.

Цитирана е работа N 44.

73. Smatko V. et al., Influence of Ion-Implantation on Physical Properties of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>x</sub>, Czechoslovak J. of Physics, 1996, v.46, N.S3, pp. 1479-1480.

Цитирана е работа N 44.

74. Golubov A.A., Ustinov A.V., Shokhor S., Interaction Between Fluxions in Lateral Josephson Junction Stacks, Physica C, 1996, v.258, N.3-4, pp.379-383.

Цитирана е работа N 44.

75. J. Hollkott, S. Hu, C. Becker, J. Auge, B. Spangenberg, H. Kurz, N.D. Zakharov, D. Hesse, B. Hollaender, Josephson junctions fabricated by oxygen ion irradiation, IEEE Trans. Appl. Supercond., 7, No. 2(1997), 3674-3677.

Цитирана е работа N 37.

76. Y. Zhang, H. Soltner, H.-J. Krause, E. Sodke, W. Zander, J. Schubert, M. Grueneklee, D. Lomparski, M. Banzet, H. Bousack, A. I. Braginski, Planar HTS gradiometers with large baseline, IEEE Trans. Appl. Supercond., 7, No. 2(1997), 2866-2869.

Цитирана е работа N 47.

77. E.II'ichev, V. Zakosarenko, R.P.J. IJsselsteijn, V. Schultze, H.-G. Meyer, H.E. Hoenig, Current-phase relation of high-T<sub>c</sub> weak links on bicrystal substrates, EUCAS'97, Institute of Physics Conference Series, Iss.158, 567-570.

Цитирана е работа N 50.

78. V. Zakosarenko, E. V. Il'ichev, R.P.J. IJsselsteijn, V. Schultze, Current-phase relation of high-T<sub>c</sub> bicrystal and step-edge Josephson junctions, IEEE Trans. Appl. Supercond., 7, No. 2(1997), 1057-1060.

Цитирана е работа N 50.

79. A. Meltzow, S. Hu, J. Hollkott, J. Auge, B. Spangenberg, H. Kurz, N. D. Zakharov, D. Hesse, Dopped-type coplanar junctions in Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>1</sub>Cu<sub>2</sub>O<sub>8+δ</sub> system, IEEE Trans. Appl. Supercond., 7, No. 2(1997), 2852-2855.

Цитирана е работа N 43.

80. R. Gross, L. Alff, A. Beck, O. M. Froelich, D. Koelle, A. Marx, Physics and technology of high temperature superconducting Josephson junctions, IEEE Trans. Appl. Supercond., 7, No. 2(1997), 2929-2835.

Цитирана е работа N 37.

81. M.W. Denhoff, M. Gao, L.E. Erickson and G. Champion, Weak links produced in YBCO thin films using a focused ion beam, EUCAS'97, Institute of Physics Conference Series, Iss.158, 515-518.

Цитирана е работа N 53.

82. Y. Soutome and Y. Okabe, Fabrication of YBaCuO co-planar Josephson juncton by focused ion beam irradiation, 6th Int. Superconductive Electronics Conference, ISEC'97, June 25-28, 1997, Berlin, Germany, Extended Abstracts, vol. 2, 115-117.

Цитирана е работа N 37.

83. G.M. Mladenov, K.G. Vutova and Y.M. Gueorguiev, An explanation of the ion-induced Josephson-like junction operation, 6th Int. Superconductive Electronics Conference, ISEC'97, June 25-28, 1997, Berlin, Germany, Extended Abstracts, vol. 2, 222.

Цитирана е работа N 37.

84. G.M. Mladenov, K.G. Vutova and Y.M. Gueorguiev, An explanation of the ion-induced Josephson-like junction operation, 6th Int. Superconductive Electronics Conference, ISEC'97, June 25-28, 1997, Berlin, Germany, Extended Abstracts, vol. 2, 222.

Цитирана е работа N 53.

85. Кандидатска дисертация на А. Венева, София 1995 год.

Цитирана е работа N 32.

86. J. Hollkott, S. Hu, C. Beker, J. Auge, B. Spangenberg and H. Kurz, Combined method of electron-beam lithography and ion implantation techniques for fabrications of high-temperature superconductor Josephson junctions, J. Vac. Sci. Technol. B14(6), Nov/Dec 1996, 4100-4104.

Цитирана е работа N 37.

87. V.Smatko, P. Cicmanec, F. Hanic, V. Strbik, S. Benacka, S. Chromik, D. Benovic and E. Kocacova, Influence of ion implantation on physical properties of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>x</sub>, Proc. LT-21, Czecoslovak Jounal of Phys., 46 (1996), Suppl. S3, 1479-1480.

Цитирана е работа N 44.

88. M. Kuhn, B. Schey, R. Klarmann, W. Biegel, B. Stritzker, J. Eisenmenger, P. Leiderer, Patterning of YBCO thin films by ion implantation and magneto-optical investigations, Physica C 294, No.1-2(1998), 1-6.

Цитирана е работа N 55.

89. F. Kahlmann and J. Hollkott, SNS Josephson junctions fabricated by oxygen implantation into  $\text{YBa}_2\text{Cu}_3\text{O}_7$ , Institut fuer Schicht- und Ionentechnik, Forschungszentrum Juelich, Jahresbericht 1997, 44-45.

Цитирана е работа N 44.

90. J. Hollkott, C. Jaekel, A.C Melzow, S. Hu, D. Dunkmann, S. Altmeyer, B. Spangenberg and H. Kurz, Sub-100 nm lithography and high aspect-ratio masks for fabrication of Josephson devices by ion implantation, Micro- and nano engineering 97, Book of abstracts, September 15-18, 1997, Athens, Greece, PEP-1.

Цитирана е работа N 37.

91. F. Kahlmann, Untersuchung der Transporteigenschaften von SNS-Josephson-Kontakten hergestellt durch die lokale Implantation von Sauerstoff in  $\text{Y}_1\text{B}_3\text{Cu}_3\text{O}_{7-x}$ , Dissertation, Universitaet zu Koeln, Maerz 1998.

Цитирана е работа N 37.

92. F. Kahlmann, Untersuchung der Transporteigenschaften von SNS-Josephson-Kontakten hergestellt durch die lokale Implantation von Sauerstoff in  $\text{Y}_1\text{B}_3\text{Cu}_3\text{O}_{7-x}$ , Dissertation, Universitaet zu Koeln, Maerz 1998.

Цитирана е работа N 55.

93. F. Kahlmann, Untersuchung der Transporteigenschaften von SNS-Josephson-Kontakten hergestellt durch die lokale Implantation von Sauerstoff in  $\text{Y}_1\text{B}_3\text{Cu}_3\text{O}_{7-x}$ , Dissertation, Universitaet zu Koeln, Maerz 1998.

Цитирана е работа N 56.

94. A.S. Katz, A.G. Sun, S.I. Woods and R.C. Dynes, Planar thin film  $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$  Josephson junctions via nanolithography and ion damage, App. Phys. Lett., **72**, No.16(1998), 2032-2034.

Цитирана е работа N 55.

95. V. Smatko, F. Hanic, J. Souc, E. Kovacova and V. Strbik, Selective deposition of epitaxial YBCO films on  $\text{Al}_2\text{O}_3/\text{CeO}_2$  substrate and titanium oxide mask applicable for patterning of stable microbridges, Supercond. Sci. Technol. **11**, No.5(1998), 458-461.

Цитирана е работа N 55.

96. J. Hollkott, F. Kahlmann, C. Jaekel, S. Hu, B. Spangenberg and H. Kurz, Sub-100nm lithography and high aspect-ratio masks for fabrication of Josephson devices by ion implantation, Microelectronic Engineering, 41/42(1998), 403-406.

Цитирана е работа N 37.

97. F. Schmidl, L. Doerer, S. Wunderlich, F. Machalet, U. Huebner, H. Schmidt, S. Linzen, H. Schneidewind, N.v. Freyhold, and P. Seidel, Superconducting properties of ion modified YBCO microbridges, J. Low Temp. Physics, vol. 106, Nos.3/4(1997), 405-416.

Цитирана е работа N 37.

98. A.S. Katz, S.I. Woods, R.C. Dynes and A.G. Sun, Stability and uniformity of planar high temperatretre Josephson junctions fabricated using nanolithography and ion damage, IEEE Trans. on Applied Superconductivity, . Vol 9, Iss 2, Part 3, (1999), 3005-3007

Цитирана е работа N 44.

99. F. Kahlmann, A. Engelhardt, J. Schubert, W. Zander and Ch. Buchal, Superconductor-normal-superconductor Josephson junctions fabricated by oxygen implantation into  $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ , Appl. Phys. Lett., **73**, No.16 (1998), 2354-2356.

Цитирана е работа N 44.

100. F. Kahlmann, A. Engelhardt, J. Schubert, W. Zander, Ch. Buchal and J. Hollkott, Properties of SNS Josephson junctions fabricated by 200 keV oxygen

implantation into  $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ , IEEE Trans. on Applied Superconductivity . Vol 9, Iss 2, Part 3, (1999), 2874-2877.

Цитирана е работа N 37.

101. F. Kahlmann, A. Engelhardt, J. Schubert, W. Zander, Ch. Buchal and J. Hollkott,  $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$  Josephson junctions fabricated by oxygen implantation, IBMM'98, Nuclear instruments & methods in physics research, Section B-Beam interactions with materials and atoms, Vol 148, Iss 1-4, (1999), 803-806.

Цитирана е работа N 44.

102. E.Il'ichev, V. Zakosarenko, R.P.J. IJsselsteijn, V. Schultze, H.-G. Meyer, H.E. Hoenig, H. Hildenkamp and J. Mannhart, Nonsinusoidal current-phase relationship of grain boundary Josephson junctions in high- $T_c$  superconductors, Phys. Rev. Lett., 81, No. 4(1998), 894-897.

Цитирана е работа N 50.

103. E.Il'ichev, V. Zakosarenko, R.P.J. IJsselsteijn, V. Schultze, H.-G. Meyer, H.E. Hoenig and H. Toepfer, The current-phase relation of high- $T_c$   $\text{YBaCu}$  Josephson junctions, IEEE Trans. Appl. Superconductivity, Vol 9, Iss 2, Part 3, (1999), 3994-3997.

Цитирана е работа N 50.

104. J. Hollkott, , C. Jaekel, B. Spangenberg, H. Kurz and F. Kahlmann, Optimized technology for freely positionable Josephson junctions in  $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$  fabricated by local ion damaging, IEEE Trans. Applied Sperconductivity, 9, No. 1(1999), 39-44.

Цитирана е работа N 37.

105. J. Hollkott, , C. Jaekel, B. Spangenberg, H. Kurz and F. Kahlmann, Optimized technology for freely positionable Josephson junctions in  $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$  fabricated by local ion damaging, IEEE Trans. Applied Sperconductivity, 9, No. 1(1999), 39-44.

Цитирана е работа N 53.

106. D. Koelle, R. Kleiner, F. Ludwig, E. Dansker and J. Clarke, High-transition-temperature superconducting quantum interference devices, Rev. Mod. Phys., 71, No.3(1999), 631-686.

Цитирана е работа N 38.

107. D. Koelle, R. Kleiner, F. Ludwig, E. Dansker and J. Clarke, High-transition-temperature superconducting quantum interference devices, Rev. Mod. Phys., 71, No.3(1999), 631-686.

Цитирана е работа N 57.

108. X.H. Zeng, H.J. Krause, Y. Zhang, H.R. Yi, F. Ruders, H. Bousack, 2-SQUID planar gradiometer on one-chip, Institute of Physics Conference Series, 1997, Iss. 158, 711-714.

Цитирана е работа N 47.

109. Schneider C.W., Schulz R.R., Goetz B., Schmehl A., Bielefeldt H., Hilgenkamp H., Mannhart J., Tailoring of High- $T_c$  Josephson-Junctions by Doping Their Electrodes, Applied Physics Letters, Vol 75, Iss 6, (1999), 850-852.

Цитирана е работа N 37.

110. Arora S.K., Kumar R., Kanjilal-D., Mehta-G.K., Khatua-S., Pinto-R., Kumar-V., Gupta-A.K., 1/F Noise Properties of Swift Heavy-Ion Irradiated Epitaxial Thin-Films of YBCO, Bulletin of Materials Science, Vol 22, Iss 3, (1999), 251-255.

Цитирана е работа N 52.

111. Cowie A., Cohen L.F., Denhoff M.W., The Microwave-Power Handling of an FIB-Generated Weak- Link in a YBCO Film, Superconductor Science & Technology, Vol 12, Iss 7 (1999), 431-435.

Цитирана е работа N 53.

112. Koelle-D., High Transition-Temperature Superconducting Quantum Interference Devices - Basic Concepts, Fabrication and Applications, Journal of Electroceramics, Vol 3, Iss 2 (1999), 195-212.

Цитирана е работа N 37.

113. Khare-N, YBCO Thin-Film RF-Squid Using Bicrystal Junction, Physica C, Vol 313, Iss 3-4, (1999), 281-284

Цитирана е работа N 37.

114. A. Cowie, L.F. Cohen and M.W. Denhoff, The microwave power handling of an FIB-generated weak link in YBCO film, Supercond. Sci. Technol., 12(1999)431-435.

Цитирана е работа N 53.

115. K.-U. Barholz, M. Yu. Kupriyanov, U. Huebner, F. Schmidl, and P. Seidel, An Alternative Explanation of the 'Long-Range Proximity Effect' in HTS Junctions, Physica C,334(2000),175-184.

Цитирана е работа "Ext. Abstr. ISEC'99, 485".

116. A.S. Katz, S.I. Woods, and R.C. Dynes, Transport properties of high- $T_c$  planar Josephson junctions fabricated by nanolithography and ion implantation, J. Appl. Phys., 87, No. 6 (2000), 2978-2983.

Цитирана е работа N 77.

117. M.G. Blamire, .D-J. Kang, G. Burnell, N.H. Peng, R. Webb, C. Jeynes, J.H. Yun, S.H. Moon an B. Oh, Masked ion damage and implantation for device fabrication, Vacuum, 69(2003), 11-15.

Цитирана е работа N 55.

118. Kornev VK, Likharev KK, Snigirev OV, Soldatov ES, Khanin VV, Microwave SQUID With High-Quality Dielectric Resonator, Radiotekhnika i Elektronika 25, 1980, 2647-2655.

Цитирана:.

119. M.M. Sarker, W.R. Flavell, Review of applications of high-temperature superconductors, J Supercond 11 (2): 209-213 Apr 1998.

Цитирана е работа N 54

120. Katz AS, Woods SI, Dynes RC, Transport properties of high- $T_c$  planar Josephson junctions fabricated by nanolithography and ion implantation J Appl Phys 87 (6): 2978-2983 Mar 15 2000.

Цитирана е работа N 55.

121. Asano Y, Unconventional superconductivity and Josephson effect in superconductor/dirty normal metal/superconductor junctions, J Phys Soc Jpn 71 (3): 905-909 Mar 2002

Цитирана е работа 50 S. S. Tinchev: Physica C 222 (1994) 173

122. Anon, Passive high-temperature superconducting microwave devices, Springer Tr Mod Phys 155: 283-1999

Цитирана е работа 50

123. Pogrebnyakov AV, Irradiation-assisted fabrication and., thin-film properties of  $\text{YBa}_2\text{Cu}_3\text{O}(7-x)$  microbridges, Supercond Sci Tech 14 (12): 1090-1096 DEC 2001

Цитирана е работа N 65.

124. Schoop U, Schonecke M, Thienhaus S, et al., Role of ion beam etching in the fabrication of ramp-type junctions, PHYSICA C 351 (3): 200-214 APR 1 2001  
 Цитирана е: Tinchev SS, 1998, APPL PHYS LETT, V73, P1745.
125. Li Q, Fu ZL, Ji ZM, et al. Experimental study of the plasma fluorination of Y-Ba-Cu-O thin films, Chinese Phys Lett 19 (9): 1340-1343 SEP 2002  
 Цитирана: Tinchev SS, 1990, Supercond Sci Tech, V3, P500.
126. . Jens Scherbel, Hochfrequenzverhalten gekoppelter und ungekoppelter Josephson-Kontakte auf der Basis von Hochtemperatur-Supraleitern, Dissertation Friedrich-Schiller-Universität Jena  
 Цитирана е: [Tinc1996] S. S. Tinchev, *Physica C* 256 (1996) 191
127. A. Konakovský, A. Cigá , J. Manka, -S. Buchta, Cryogenic probe and apparatus for contactless measurement of transition characteristics of HTc superconductors, Measurement Science Review, Volume 1, Number 1, 2001  
 Цитирана е работа N 63
128. A Cowie y , L F Cohen y , and M W. Denhoff, The microwave power handling of a FIB generated weak link in a YBCO film arXiv: cond- mat/ 9902095 v2 15 Jun 1999  
 Цитирана е работа N 53
129. D.-J. Kang, N. H. Peng, R. Webb, C. Jeynes J. H. Yun, S. H. Moon, B. OhG. Burnell, E. J. Tarte, D. F. Moore, and M. G. Blamire Realization and properties of Mg2B metal-masked ion damage junctions, Applied Physics Letters Volume 81, Number 19, 4 November 2002, 3600-3602.  
 Цитирана е работа N 65
130. Peng NH, Kang DJ, Jeynes C, et al., High quality YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-delta Josephson junctions and junction arrays fabricated by masked proton beam irradiation damage, IEEE T Appl Supercon 13: (2) 889-892 Part 1 Jun 2003  
 Цитирана е работа TINCHEV SS, 1996, PHYSICA C, V256, P191
131. Kang DJ, Peng NH, Jeynes C, et al., Josephson effects in MgB<sub>2</sub> metal masked ion damage junctions, IEEE T Appl Supercon 13: (2) 1071-1074 Part 1 Jun 2003  
 Цитирана е работа N 58. S.S. Tinchev, Critical temperature depth profiling and improvement of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>- $\delta$  weak links produced by ion modification, J. Appl. Phys., 81(1997), 324-327.
132. Li Q, Fu ZL, Ji ZM, et al., Experimental study of the plasma fluorination of Y-Ba-Cu-O thin films, Chinese Phys Lett 19: (9) 1340-1343 Sep 2002  
 Цитирана е: Tinchev SS, 1993, IEEE T APPL SUPERCON, V3, P28
133. Asano Y, Unconventional superconductivity and Josephson effect in superconductor/dirty normal metal/superconductor junctions, J Phys Soc Jpn 71: (3) 905-909 Mar 2002  
 Цитирана е работа N 50
134. Egli R, Heller F, High-resolution imaging using a high-T-c superconducting quantum interference device (SQUID) magnetometer, J Geophys Res-Sol Ea 105: (B11) 25709-25727 Nov 10 2000
135. Barholz KU, Kupriyanov MY, Hubner U, F. Schmidl, P.Seidel, An alternative explanation of the "long-range proximity effect" in HTS junctions, Physica C 334: (3-4) 175-184 Jun 15 2000  
 Цитирана е работа N 66

136. Heinsohn JK, Hadfield RH, Dittmann R, Effects of process parameters on the fabrication of edge-type YBCO Josephson junctions by interface treatments, *Physica C* 327: 157-169 Nov 1999
137. Applied Superconductivity, Status Report'98  
Цитирана е работа N 55
138. A. Konakovsky, A. Cigan, J. Manka, S. Buchta, Simultaneous measurement of the resistance and inductance transition characteristics of the HTc superconductors, *Measurement Science Review*, Volume 3, Section 3, 2003, 115-117.  
Цитирана е работа N 63
139. A. A. Golubov, M. Yu. Kupriyanov, E. Il'ichev, The current-phase relation in Josephson junctions, *Reviews of Modern Physics*, Volume 76, April 2004, 411-469.  
Цитирана е работа N 50
140. A.S. Katz, Fabrication, Characterization and Analysis of Nanofabricated Ion Damage High Temperature Josephson Junctions, Dissertation, University of California, San Diego, 1998.  
Цитирана е работа N 55
141. A.S. Katz, Fabrication, Characterization and Analysis of Nanofabricated Ion Damage High Temperature Josephson Junctions, Dissertation, University of California, San Diego, 1998.  
Цитирана е работа N 53
142. Vassilev GP, The CuO-rich region of the system Y-Ba-Cu-O/K<sub>2</sub>CO<sub>3</sub>, *Materials Letters*, 48 (2001), 89-92.  
Цитирана е работа N 32
143. Schoop U, Schonecke M, Thienhaus S, et al., Role of ion beam etching in the fabrication of ramp-type junctions, *PHYSICA C* 351 (3): 200-214 APR 1 2001  
Цитирана е: Tinchev SS, 1999, SUPERCOND SCI TECH, V12, L5
144. Vassilev GP, Interactions between YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> and K<sub>2</sub>Co<sub>3</sub> Crystal Research And Technology, 30(1995), 1155-1164.  
Цитирана е работа N 32
145. Hilgenkamp H, Mannhart J, Mayer B, Implications of d(x<sub>2</sub>-y<sub>2</sub>) symmetry and faceting for the transport properties of grain boundaries in high-T<sub>c</sub> superconductors, *Physical Review B*, 53(1996), 14586-14593.  
Цитирана е работа N 44
146. Konstantinov K, Souleva A, Stambolova I, Balchev N, Alkaline Doped Bi-Pb-(Sb)-Sr-Ca-Cu-O Superconducting Materials, *Materials Letters*, 19 (1994) 297-300.  
Цитирана е работа N 32
147. Kotsis I, Enisz M, Oravetz D, Szalay A, Effect of Porosity on Properties of Explosively Compacted High-T<sub>c</sub> Superconductors, *Hungarian Journal Of Industrial Chemistry*, 23(1995) 69-74.  
Цитирана е работа N 32
148. Boekholt M, Erle A, Splittgerberhunnekes PC, Guntherodt G, Phonon Raman-Spectroscopy Of Superconducting Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8+δ</sub> Single-Crystals, *Solid State Communications*, 74(1990), 1107-1112.  
Цитирана е работа N 29
149. Gerrard D I, Birnie J, Raman-Spectroscopy, *Analytical Chemistry*, 62(1990)140-150.  
Цитирана е работа:
150. Krysanov V A, Rudenko V N, Phase Signal Coding Between Quantum Magnetometer Plateaus, *Measurement Techniques USSR*, 30(1987) 697-699.

Цитирана е работа N 5a

151. A. Koňákovský, A. Cigáň, J. Maňka, .S. Buchta, Cryogenic probe and apparatus for contactless measurement of transition characteristics of HTc superconductors, Measurement Science Review, Volume 1, Number 1, 2001, 41.

Цитирана е работа N S. S. Tinchev, Cryogenics 38 (1998)

152. Handbook of Superconducting Materials, Book editors: David A Cardwell David S Ginley, Institute of Physics Publishing, ISBN 0750308982 Published 2003.

Цитирана е работа: Tinchev S S 1995 J. Appl. Phys. Low-frequency noise in high-Tc rf superconducting quantum interference devices made by oxygen-ion irradiation 77 3563.

153. Pattabiraman, M., Nagendran, R., Baisnab, D.K., Janawadkar, M.P., Hariharan, Y., The thermoelectric method for non-destructive evaluation: A finite element study, Journal of Physics D: Applied Physics 38 (21), 2005, pp. 3985-3990.

Tinchev S.S., Kozhuharova R.H., Lazhova V.P., Nikolova P. On the thermoelectric SQUID method for non-destructive material characterization Measurement Science and Technology, 13 (2) (2002), pp. 170-173.

154. M G Blamire, Multiple-barrier and nanoscale superconducting devices, Supercond. Sci. Technol. 19 (2006), S132-S137.

Цитирана е работа: Tinchev SS 1977 J Appl Phys 81 324-7

155. И.М. Дмитренко, Экспериментальные исследования слабосвязанных сверхпроводников (Обзор), физика низких температур, 2004, т. 30, №7/8, 698-707.

Цитирана е работа: В.И. Шнырков, Г.М. Цой, В.В. Карцовник, С.С. Тинчев, ЖЭТФ, 59, 809 (1983).

156. Environmental Magnetism: Principles and Applications of Enviromagnetics (International Geophysics) by Michael E. Evans and Friedrich Heller, Elsevier, April 2003.

ŠUŽUŽÚÝ ū ŽÚŽÚJ on Page 60: Tinchev, 1992

157. Environmental Magnetism: Principles and Applications of Enviromagnetics (International Geophysics) by Michael E. Evans and Friedrich Heller, Elsevier, April 2003.

ŠUŽUŽÚÝ ū ŽÚŽÚJ Tinchev, S. S. SQUID-Magnetometer aus Supraleitern mit hohier Sprungtemperatur, Berichte aus Forschung and Entwicklung unsrer Gesellschaft, 2, Hoesch, 1992.

158. High-Temperature-Superconductor Thin Films at Microwave Frequencies (Springer Tracts in Modern Physics) by Matthias Hein, Springer, Aug 13, 1999.

ŠUŽUŽÚÝ ū ŽÚŽÚJ S. S. Tinchev: Physica C 222. 17:1 (1994).

159. Microwave Superconductivity (NATO SCIENCE SERIES: E: Volume 375) (NATO Science Series E:) by H. Weinstock and Martin Nisenoff, Jan 1, 2002.

ŠUŽUŽÚÝ ū ŽÚŽÚJ on Page 532: "... Tinchev [5.241 has developed a thin-film if SQUID gradiometer with a baseline length of 1.4 mm. ..."]

160. Microwave Superconductivity (NATO SCIENCE SERIES: E: Volume 375) (NATO Science Series E:) by H. Weinstock and Martin Nisenoff, Jan 1, 2002.

Цитирана e: on Page 538: "...Tinchev, S.S. and Hinken, J.H. (1989) 77K rf SQUID with 1/f noise only below 5 Hz, Electron.Lett. 25, 1579- 1580. 15.51 ..."

161. Microwave Superconductivity (NATO SCIENCE SERIES: E: Volume 375) (NATO Science Series E:) by H. Weinstock and Martin Nisenoff, Jan 1, 2002.  
 ŠUŽUŽŪÝ ū ŽUŽUŽŪJ on Page 539: "...15.141 Tinchev, S.S. ..."
162. High Temperature Superconductivity by R. M. Metzger, Gordon and Breach, Jan 1, 1989.  
 ŠUŽUŽŪÝ ū ŽUŽUŽŪJ from Index: "... , 53 Tinchev, S. ...."
163. High Temperature Superconductivity by R. M. Metzger, Gordon and Breach, Jan 1, 1989.  
 ŠUŽUŽŪÝ ū ŽUŽUŽŪJ from Table of Contents:"... 137 Anomalous Superconductivity In The System Y-Ba-Cu-Ag-0 Emil Gattef, E. Vlahov, V. Kovachev, S. Jambasov, S. Tinchev, and M. Taslakov.."
164. Materials Surface Processing by Directed Energy Techniques (European Materials Research Society Series) by Yves Pauleau, Elsevier, Aug 22, 2006.  
 Цитирана е: U. Barkow, D. Menzel and S.S. Tinchev, Physica C Supercond., 370 (2002)
165. Handbook of High-Temperature Superconductor Electronics (Applied Physics) by Neeraj Khare, Marcel Dekker, May 6, 2003.  
 Цитирана е: on Page 100: "... SS Tinchev, S Alexandrova. Comment on: Properties of interface-engineered high T Josephson junctions. App! Phys Lett 73:1745-1746, 1998..."
166. Handbook of High-Temperature Superconductor Electronics (Applied Physics) by Neeraj Khare, Marcel Dekker, May 6, 2003.  
 ŠUŽUŽŪÝ ū ŽUŽUŽŪJ on Page 229: "...SS Tinchev. Current-phase relation in high-Tc. weak links made by oxygen-ion irradiation . Physica C 222:173-176, 1994.
167. Applications of Analytical Techniques to the Characterization of Materials by D.L. Perry, Plenum Press, Mar 31, 1992)  
 ŠUŽUŽŪÝ ū ŽUŽUŽŪJ page 97: "... Mikhov, V. Hadjiev, M. Iliev, O. Petrov, M. Mateev, S. Tinchev, J. Tihov, E. Dinolova, Tz. Zheleva, V. Popov, G. Tyuliev, ..."
168. A. Ya. Shul'man, Non-exotic theory of 1/f noise as a trace of infralow-frequency fluctuations, arXiv:cond-mat/0509340 v1 13 Sep 2005.  
 ŠUŽUŽŪÝ ū ŽUŽUŽŪJ 17. S.S. Tinchev. *Physics Letters* **108A**, 357 (1985)
169. D.-J. Kang, N. H. Peng, R. Webb, and C. Jeynes, J. H. Yun, S. H. Moon, and B. Oh, G. Burnell, E. J. Tarte, D. F. Moore, and M. G. Blamire, Josephson effects in MgB<sub>2</sub> metal masked ion damage junctions, arXiv:cond-mat/0206207 v1 12 Jun 2002  
 Цитирана е работа S. S. Tinchev, Supercond. Sci. Technol. 12 L5, (1999).
170. A. B. Zorin, Radio-frequency Bloch-transistor Electrometer arXiv:cond-mat/0012314 v1 17 Dec 2000  
 The author wishes to thank M. G'otz, E. Il'ichev, V. V. Khanin, A. Maassen van den Brink, J. Niemeyer and S. S. Tinchev for stimulating discussions.
171. Highly localised light ion irradiation of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> using metal masks, W.E. Booij, N.H. Peng\*, F. Kahlmann, R. Webb\*, E.J. Tarte, D.F. Moore, C. Jeynes\*, M.G. Blamire, EUCAS'99,
- Цитирана е: Tinchev, S. S. (1990).Superconductor Science & Technology 3(10), 500-503.
172. . P. Martinoli, B . Jeanneret, V. Tsaneva, T. Lutuv, D. Ariosa, C. Leemann, Ph. Lerch, J. Burger, A technology for 2-dimensional hts josephson junctions arrays, Bulgarian Journal of Physics 22 Nos I/2 (1995) 44-59  
 Цитирана е: S. Tinchev. Supercond. Sci. Technol. 3 (1990) 500.

173. Alex Braginski and Yi Zhang, Practical rf squids: configuration and performance, in: John Clarke and Alex I. Braginski, *SQUID Handbook*, Berlin: Wiley VCH, 2004.
- Цитирана е: [28] Tinchev, S.S. and Hinken, J.H. (1989) 77K rf SQUID with 1/f noise only below 5 Hz, *Electronics. Lett.* **25**, 1579-1580.
174. Alex Braginski and Yi Zhang, Practical rf squids: configuration and performance, in: John Clarke and Alex I. Braginski, *SQUID Handbook*, Berlin: Wiley VCH, 2004.
- Цитирана е: [34] Tinchev, S.S. (1990) Investigations of rf SQUIDs made from epitaxial YBCO films, *Supercond. Sci. Technol.* **3**, 500-502.
175. Alex Braginski and Yi Zhang, Practical rf squids: configuration and performance, in: John Clarke and Alex I. Braginski, *SQUID Handbook*, Berlin: Wiley VCH, 2004.
- Цитирана е: [60] Tinchev, S.S. (1994) YBCO thin film gradiometer, in H.C.Freyhardt (ed.) *Proceedings of the 1st European Conference on Applied Superconductivity (EUCAS)* Göttingen, pp. 1435-1437.
176. N. Bergeal, M. Sirena, J. Lesueur, G. Faini, M. Aprili, J. P. Contour, Response to “Comment on ‘High  $T_c$  superconducting quantum interference devices made by ion irradiation’ ” *Appl. Phys. Lett.* **90**, 136101 2007.
- Цитирана е: . S.S. Tinchev, "Comment on “High- $T_c$  superconducting quantum interference devices made by ion irradiation”, *Applied Physics Letters*, **90**, 136101, 2007.
177. Blamire, M.G., Multiple-barrier and nanoscale superconducting devices, (2006) *Superconductor Science and Technology* **19** (3), pp. S132-S137
- Цитирана е: Tinchev, S.S., Critical temperature depth profiling and improvement of  $\text{YBa}_2\text{Cu}_3\text{O}_7$  weak links produced by ion modification (1997) *Journal of Applied Physics*, **81** (1), pp. 324-327.
178. Zhang MJ, Li J, Peng ZH, et al., Enhanced extrinsic magnetoresistance in  $\text{La}_2/3\text{Sr}_1/3\text{MnO}_3$  articial grain boundaries induced by ion implantation, *Journal Of Magnetism And Magnetic Materials* **316** (1): L1-L4 SEP 2007.
- Цитирана е: S. S. Tinchev, Critical temperature depth profiling and improvement of  $\text{YBa}_2\text{Cu}_3\text{O}_7$  weak links produced by ion modification, *J. Appl. Phys.* **81**, 324 (1997).
179. M Pattabiraman, R Nagendran, D K Baisnab, M P Janawadkar and Y Hariharan, The thermoelectric method for non-destructive evaluation: a finite element study, 2005 *J. Phys. D: Appl. Phys.* **38** 3985-3990 doi:10.1088/0022-3727/38/21/024.
- Цитирана е: S S Tinchev, R H Kozhuharova, V P Lazhova and P Nikolova, On the thermoelectric SQUID method for non-destructive material characterization, 2002 *Meas. Sci. Technol.* **13** 170-173 doi:10.1088/0957-0233/13/2/305.
180. Jaroslav Mackerle, Finite-element modelling of non-destructive material evaluation, an addendum: a bibliography (1997–2003), 2004 *Modelling Simul. Mater. Sci. Eng.* **12** 799-834 doi:10.1088/0965-0393/12/5/004.
- Цитирана е: S S Tinchev, R H Kozhuharova, V P Lazhova and P Nikolova, On the thermoelectric SQUID method for non-destructive material characterization, 2002 *Meas. Sci. Technol.* **13** 170-173 doi:10.1088/0957-0233/13/2/305.
181. Materials Surface Processing by Directed Energy Techniques (European Materials Research Society Series) by Yves Pauleau, Elsevier, Aug 22, 2006.

- Цитирана е: U. Barkow, D. Menzel and S. Tinchev, *Physica C*, Supercond., 370 (2002).
182. Lin, Z., Ba, D., Wang, F., Li, M., Self-bias voltage and optical property of hydrogenated amorphous carbon films, (2007) Zhenkong Kexue yu Jishu Xuebao, Journal of Vacuum Science and Technology 27 (4), pp. 350-353
- Цитирана е: S. S. Tinchev, J. Dyulgarska, P. Nikolova, D. Grambole, U. Kreissig, Tz. Babeva, Optical properties of PECVD deposited with air addition, Journal of Optoelectronics and Advanced Materials 8, No. 1, 2006, 301 – 311.
183. M. Sirena, N. Bergeal, J. Lesueur, G. Faini, R. Bernard, J. Briatico, D. G. Crete, and J. P. Contour, Study and optimization of ion-irradiated high Tc Josephson junctions by Monte Carlo simulations, Journal of Applied Physics 101, 123925 (2007).
- Цитирана е: S. S. Tinchev, J. Appl. Phys. **81**, 324 (1997).
184. M. Sirena, N. Bergeal, J. Lesueur, G. Faini, R. Bernard, J. Briatico, D. G. Crete, and J. P. Contour, Study and optimization of ion-irradiated high Tc Josephson junctions by Monte Carlo simulations, Journal of Applied Physics 101, 123925 (2007).
- Цитирана е: S. S. Tinchev, J. Appl. Phys. **78**, 5851 (1995).
185. M. Sirena, N. Bergeal, J. Lesueur, G. Faini, R. Bernard, J. Briatico, D. G. Crete, and J. P. Contour, Study and optimization of ion-irradiated high Tc Josephson junctions by Monte Carlo simulations, Journal of Applied Physics 101, 123925 (2007).
- Цитирана е: S. S. Tinchev, Supercond. Sci. Technol. **3**, 500 (1990).
186. M. Sirena, N. Bergeal, J. Lesueur, G. Faini, R. Bernard, J. Briatico, D. G. Crete, and J. P. Contour, Study and optimization of ion-irradiated high Tc Josephson junctions by Monte Carlo simulations, Journal of Applied Physics 101, 123925 (2007).
- Цитирана е: U. Barkow, D. Menzel, and S. S. Tinchev, *Physica C* **370**, 246 (2002).
187. M. Sirena, S. Matzen, N. Bergeal, J. Lesueur, G. Faini, R. Bernard, J. Briatico, and D. G. Crété, Improving ion irradiated high Tc Josephson junctions by annealing: The role of vacancy-interstitial annihilation, *Appl. Phys. Lett.* 91, 142506 (2007) и arXiv:0708.0904.
- Цитирана е: S. S. Tinchev, *Physica C*, 460, 1477(2007).
188. M. Sirena, S. Matzen, N. Bergeal, J. Lesueur, G. Faini, R. Bernard, J. Briatico, and D. G. Crété, Improving ion irradiated high Tc Josephson junctions by annealing: The role of vacancy-interstitial annihilation, *Appl. Phys. Lett.* 91, 142506 (2007) и arXiv:0708.0904.
- Цитирана е: U. Barkow, D. Menzel and S.S. Tinchev, *Physica C*, **370**, 246 (2002).
189. Frank-Michael Kamm, Transporteigenschaften supraleitender  $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ , - Brückenkontakte strukturiert auf der Nanoskala mittels konventioneller und unkonventioneller Lithographie, Dissertation, Universitaet Ulm, Betreuer: Prof. Dr. P. Ziemann (2000).
- Цитирана е: [Tin90] S.S. Tinchev. Supercond. Sci. Technol. 3, 500 (1990).
190. Frank-Michael Kamm, Transporteigenschaften supraleitender  $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ , - Brückenkontakte strukturiert auf der Nanoskala mittels konventioneller und unkonventioneller Lithographie, Dissertation, Universitaet Ulm, Betreuer: Prof. Dr. P. Ziemann (2000).
- Цитирана е: [Tin96a] S.S. Tinchev. *Physica C* 256, 191 (1996).
191. Frank-Michael Kamm, Transporteigenschaften supraleitender  $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ , - Brückenkontakte strukturiert auf der Nanoskala mittels konventioneller und

unkonventioneller Lithographie, Dissertation, Universitaet Ulm, Betreuer: Prof. Dr. P. Ziemann (2000).

Цитирана е: [[Tin99] S.S. Tinchev. Supercond. Sci. Technol. 12(9), L5 (1999).

192. N. Bergeal, M. Sirena, J. Lesueur G. Faini, M. Aprili, and J. P. Contour, Response to “Comment on ‘High  $T_c$  superconducting quantum interference devices made by ion irradiation” [Appl. Phys. Lett. 90, 136101 2007], Applied Physics Letters 90, 136102 (2007).

Цитирана е: S. S. Tinchev, Appl. Phys. Lett. **90**, 136101 (2007), preceding article.

193. N. Bergeal, M. Sirena, J. Lesueur G. Faini, M. Aprili, and J. P. Contour, Response to “Comment on ‘High  $T_c$  superconducting quantum interference devices made by ion irradiation” [Appl. Phys. Lett. 90, 136101 2007], Applied Physics Letters 90, 136102 (2007).

Цитирана е: S. S. Tinchev, Semicond. Sci. Technol. **3**, 500 (1990).

194. N. Bergeal, M. Sirena, J. Lesueur G. Faini, M. Aprili, and J. P. Contour, Response to “Comment on ‘High  $T_c$  superconducting quantum interference devices made by ion irradiation” [Appl. Phys. Lett. 90, 136101 2007], Applied Physics Letters 90, 136102 (2007).

Цитирана е: M. Klinger, J. H. Hinken, and S. S. Tinchev, IEEE Trans. Appl. Supercond. **5**, 2759 (1995).

195. Jens Scherbel, Hochfrequenzverhalten gekoppelter und ungekoppelter Josephson-Kontakte auf der Basis von Hochtemperatur-Supraleitern, Dissertation zur Erlangung des akademischen Grades doctor rerum naturalium (Dr. rer. nat.) Friedrich-Schiller-Universitaet Jena.

Цитирана е: [Tinc1996] S. S. Tinchev, *Physica C* 256 (1996) 191

196. L' Baća, N. Stelzer, Adapting of sol–gel process for preparation of TiB<sub>2</sub> powder from low-cost precursors, Journal of the European Ceramic Society 28 (2008) 907–911.

Цитирана е: Nikolova, P., Petkov, M., Tinchev, S. and Dyulgarska, J., Conversion of magnetron deposited TiC films into rutile TiO<sub>2</sub>. *Plasma Processes Polym.*, 2006, 3(2), 188–191.

197. M.J. Zhang, J. Lia, Z.H. Peng, S.L. Li, D.N. Zheng, A.Z. Jin, C.Z. Gu, R.Y. Li, C.C. Liu, Journal of Magnetism and Magnetic Materials 316 (2007) L1–L4, Enhanced extrinsic magnetoresistance in La<sub>2</sub>=3Sr<sub>1</sub>=3MnO<sub>3</sub> artificial grain boundaries induced by ion implantation.

Цитирана е: S.S. Tinchev, J. Appl. Phys. 81 (1997) 324.

198. M. Sirena, S. Matzen, N. Bergeal, J. Lesueur, G. Faini, R. Bernard, J. Briatico and D. Créte, Annealing effect on the reproducibility of Josephson Junctions made by ion irradiation, Journal of Physics: Conference Series 97 (2008) 012073

Цитирана е: S. S. Tinchev, Physica C, in press, doi: 10.106/j.physc.2007.04.001

199. Shane Cybart, Stephen Wu, Steven Anton, Irfan Siddiqi, John Clarke, and Robert Dynes, "Series Array of Incommensurate SQUIDs from YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-delta Ion Damage Josephson Junctions", Applied Physics Letters 93, 182502 (2008)

Цитирана е: S. S. Tinchev, Supercond. Sci. Technol. 3, 500503 (1990).

200. Shane Cybart, Stephen Wu, Steven Anton, Irfan Siddiqi, John Clarke, and Robert Dynes, "Series Array of Incommensurate SQUIDs from YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-delta Ion Damage Josephson Junctions", *Applied Physics Letters* 93, 182502 (2008)
- Цитирана е: S. S. Tinchev, IEEE. Trans. Appl. Supercond. 3, 28 (1993).
201. Andrew Sunderland, Alexey V Veryaskin, Wayne McRae, Li Ju, David G Blair, Direct string magnetic gradiometer for space applications arXiv:0801.1175v1 [physics.ins-det] 8 Jan 2008
- Цитирана е: M. Klinger, J.H. Hinken, S.S. Tinchev, First space test of high-T<sub>c</sub> SQUIDs, *IEEE Transactions on Applied Superconductivity* 5 (1995) 2759-2761.
202. Zhao, GY Fabrication of YBCO film patterns and their properties, *Superconductor Science & Technology* Volume: 21 Issue: 12 Article Number: 125016 Published: DEC 2008
- Цитирана е: TINCHEV SS, VACUUM 69 : 17 2003
203. Sunderland, A: Direct string magnetic gradiometer for space applications, *Sensors and Actuators A-Physical* Volume: 147 Issue: 2 Pages: 529 Published: OCT 3 2008.
204. M. Sirena, S. Matzen, N. Bergeal, J. Lesueur, G. Faini, R. Bernard, J. Briatico, and D. G. Crete, Annealing of ion irradiated high  $T_c$  Josephson junctions studied by numerical simulations, *Journal of Applied Physics* 105,023910 (2009)
- Цитирана е: U. Barkow, D. Menzel, and S. S. Tinchev, *Physica C* 370, 246 (2002).
205. M. Sirena, S. Matzen, N. Bergeal, J. Lesueur, G. Faini, R. Bernard, J. Briatico, and D. G. Crete, Annealing of ion irradiated high  $T_c$  Josephson junctions studied by numerical simulations, *Journal of Applied Physics* 105,023910 (2009) *Journal of Applied Physics* 105, 023910 (2009)
- Цитирана е:
- S. S. Tinchev, *J. Appl. Phys.* 81, 324 (1997).
206. Menzel D, Awada A, Dierke H, et al., Free-carrier compensation in ferromagnetic ion-implanted SnO<sub>2</sub> : Co, 52nd Annual Conference on Magnetism and Magnetic Materials, NOV 05-09, 2007 Tampa, FL, Source: *Journal Of Applied Physics* Volume: 103 Issue: 7 Article Number: 07D106 Published: APR 1 2008
- Цитирана е:
- Physica C-Superconductivity And Its Applications* Volume: 370 Issue: 4 Pages: 246-252, Published: MAY 15 2002
207. Ramaswamy, et al., Process for low temperature plasma deposition of an optical absorption layer and high speed optical annealing, United States Patent 7,422,775 September 9, 2008.

Цитирана е: Tinchev et al, a-C:H absorber layer for solar cells matched to solar spectrum, Solar Energy Materials & Solar Cells 86, Oct. 14, 2004, p. 421-426.

208. Albert-Ludwigs-Universität Freiburg Physikalisches Institut  
Fortgeschrittenenpraktikum I.

Цитирана е: [15] Dr.S.S. Tinchev: Sonderdruck aus: Berichte aus Forschung und Entwicklung unserer Gesellschaften, Heft 2/92, F.I.T.

209. Experimental study of plasma fluorination of Y-Ba-Cu-O thin films, CHIN.PHYS.LETT. Vol. 19, No. 9 (2002) 1340

Цитирана е:SUST 3 500

210. Experimental study of plasma fluorination of Y-Ba-Cu-O thin films, CHIN.PHYS.LETT. Vol. 19, No. 9 (2002) 1340

Цитирана е:IEEE Trans ASC 3 28

211. Shane A. Cybart, Steven M. Anton, Stephen M. Wu, John Clarke, Robert C. Dynes, Very Large Scale Integration of Nanopatterned  $\text{YBa}_2\text{Cu}_3\text{O}_7-\delta$  Josephson Junctions in a Two-Dimensional Array, Nano Letters 2009 9 (10), 3581-3585.

Цитирана е: Tinchev, S. S. Supercond. Sci. Technol. 1990 3 500-503.

This technique was first demonstrated by Tinchev to fabricate SQUIDs [19] Others have followed with variations of the process to reproduce single junctions, [20–24] series arrays of tens of junctions, [25,26] and a series array of 280 SQUIDs.[27] Here we report the scaling up of this process by two orders of magnitude, with a 2-dimensional (2D) array of 15,820 ( $28 \times 565$ ) Josephson junctions or equivalently 15,255 ( $27 \times 565$ ) SQUIDs.

212. Andrew Katz (1998): Fabrication,Characterization and Analysis of Nanofabricated Ion Damage High Temperature Josephson Junctions, Thesis University of California, Berkeley.

Цитирана е: SS Tinchev, Physica C 256 191-198(1996).

213. Andrew Katz (1998): Fabrication,Characterization and Analysis of Nanofabricated Ion Damage High Temperature Josephson Junctions, Thesis University of California, Berkeley.

Цитирана е: SS Tinchev, J. Appl. Phys. 78, 5851-5853 (1995).

214. D. Robbes, C. Dubuc, J. Lepaisant et D. Bloyet, Modélisation du SQUID rf en réflectométrie : impédance à la fréquence de pompe, influence du bruit de fond, Revue Phys. Appl. 22 (1987) 1389-1398.

Цитирана е: BELONOGOV, S. A., SNIGIREV, O.V., TINCHEV, S. S. and LIKHAREV, K. K., Radiotekh. Elektron. 25 (1980). Trad. : Radio Eng. Electron. Phys. 25 (1980) 116-22.

215. Ben Mahmoud, K. B., & Amlouk, M. (2009). The 3D amlouk-boubaker expansivity-energy gap-vickers hardness abacus: A new tool for optimizing semiconductor thin film materials. *Materials Letters*, 63(12), 991-994

Цитирана е: Tinchev S.S., Nikolova P.I., Dyulgarska J.T., Danev G., Babeva T. a-C:H absorber layer for solar cells matched to solar spectrum (2005) *Solar Energy Materials and Solar Cells*, 86 (3), pp. 421-426.

216. Zhang, H.-L., Zhao, G.-Y., Peng, H.-J. Fabrication of the fine-patterns of YBCO superconducting thin film by sol-gel process 2009, Wuji Cailiao Xuebao, Journal of Inorganic Materials 24 (1), pp. 192-194.

Цитирана е: Tinchev S.S. Application of ion beam techniques in superconducting electronics (2002) *Vacuum*, 69 (1-3), pp. 17-25.

217. Lu, X., Jin, S., Zhang, X., Wei, B., Cao, B. 2007 Influence of the surface gold thin film on HTS filter performance *2007 International Conference on Microwave and Millimeter Wave Technology, ICMMT '07* , art. no. 4266159

Цитирана е: Tinchev S.S. Application of ion beam techniques in superconducting electronics (2002)*Vacuum*,69(1-3), pp.17-25.

218. Sirena M, Zimmers A, Haberkorn N, et al., Influence of ion implantation on the magnetic and transport properties of manganite films , PHYSICAL REVIEW B Volume: 81 2010 Issue: 13 Article Number: 134439

Цитирана е: S. S. Tinchev, Physica C 460-462, 1477 (2007).

219. Sirena M, Matzen S, Bergeal N, et al. Annealing effect on the reproducibility of Josephson Junctions made by ion irradiation., 8th European Conference on Applied Superconductivity (EUCAS 2007) IOP Publishing Journal of Physics: Conference Series **97** (2008) 012073 doi:10.1088/1742-6596/97/1/012073

Цитирана е: S. S. Tinchev, Physica C, in press, doi: 10.106/j.physc.2007.04.001

220. C. Chouquet, G. Gerbaud, M. Bardet, S. Barrat, A. Billard, F. Sanchette, C. Ducros, Structural and mechanical properties of a-C:H and Si doped a-C:H thin films grown, by LF-PECVD, Surface & Coatings Technology 204 (2010) 1339–1346.

Цитирана е: S.S. Tinchev, P.I. Nikolova, J.T. Dyulgarska, G. Danev, Tz. Babeva, Sol. Energy Mater. Sol. Cells (2005) 421.

221. Bryce S. Richards Photovoltaics literature survey (no. 37) Progress in Photovoltaics: Research and Applications Volume 13, Issue 3, Date: May 2005, Pages: 271-275.

Цитирана: S. S. Tinchev, P. I. Nikolova, J. T. Dyulgarska, G. Danev and Tz. Babeva, a-C:H absorber layer for solar cells matched to solar spectrum, *Solar Energy Materials & Solar Cells*, 86 (2005) 421–426.

222. Zhang MY, Cheng XA, Chen C, 6th International Conference on Thin Film Physics and Applications, SEP 25-28, 2007 Shanghai. Source: THIN FILM PHYSICS AND APPLICATIONS, SIXTH INTERNATIONAL CONFERENCE Book Series: PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE) Volume: 6984 Pages: E9843-E9843 Published: 2008

Цитирана е: S. S. Tinchev, P. I. Nikolova, J. T. Dyulgarska, G. Danev and Tz. Babeva, a-C:H absorber layer for solar cells matched to solar spectrum, *Solar Energy Materials & Solar Cells*, 86 (2005) 421–426

223. A. Ya. Shul'man, Non-exotic theory of 1/f noise as a trace of infralow-frequency fluctuations, AIP Conference Proceedings 2005800, pp. 98-106.  
 Цитирана е: 17. S.S. Tinchev. *Physics Letters* 108A, 357 (1985)
224. M. Sirena, S. Matzen, N. Bergeal, J. Lesueur, G. Faini, R. Bernard, J. Briatico, and D. G. Crété, Improving ion irradiated high T<sub>c</sub> Josephson junctions by annealing: The role of vacancy-interstitial annihilation, arXiv:0708.0904.  
 Цитирана е: S. S. Tinchev, *Physica C*, 460, 1477(2007).
225. Caroline Chouquet, Elaboration et caracterisation de revetements type "Diamond-like Carbon" depezes por un procede chimique en phase vapeur assiste par un plasma basse frequence, Institut National Polytechnique de Lorraine, Nancy Universite, 2008  
 Цитирана е:  
 S. S. Tinchev, P. I. Nikolova, J. T. Dyulgarska, G. Danev and Tz. Babeva, a-C:H absorber layer for solar cells matched to solar spectrum, *Solar Energy Materials & Solar Cells*, 86 (2005) 421–426. ISSN: 0927-0248 Impact factor -2.8
226. Daniela Caschera, Realizzazione, mediante tecnica *Plasma Enhanced Chemical Vapour Deposition* (PE-CVD), di rivestimenti nanocompositi a base di titanio in matrice di diamond-like carbon, anti usura e anti corrosione, per applicazioni nell'industria meccanica e dell'utensileria da taglio, Dottorando, Universita degli Studi di Roma Tre, p. 30, ref. 74, 2009.  
 Цитирана е:  
 S. S. Tinchev, P. I. Nikolova, J. T. Dyulgarska, G. Danev and Tz. Babeva, a-C:H absorber layer for solar cells matched to solar spectrum, *Solar Energy Materials & Solar Cells*, 86 (2005) 421–426. ISSN: 0927-0248 Impact factor -2.8
227. Neeraj Dwivedi, Sushil Kumar, Chandra Mohan Singh Rauthan, Omvir Singh Panwar, Role of Metallic Ni-Cr Dots on the Adhesion, Electrical, Optical and Mechanical Properties of Diamond-like Carbon Thin Films, *Plasma Process. Polym.* 2011, 8, 100–107.  
 Цитирана е: [9] S. S. Tinchev, *J. Optoelectron. Adv. Mater.* 2006, 8, 308
228. Asta Tamulevičienė, Šarūnas Meškinis, Vitoldas Kopustinskas, Sigitas Tamulevičius, Multilayer amorphous hydrogenated carbon (a-C:H) and SiO<sub>x</sub> doped a-C:H films for optical applications, *Thin Solid Films* 519 (2011) 4004–4007.

Цитирана е: S.S. Tinchev, P.I. Nikolova, J.T. Dyulgarska, G. Danev, Tz. Babeva, Sol. Energy Mater. Sol. Cells 86 (2005) 421.

229. Dwivedi, N., Kumar, S., Malik, H.K., Govind, Rauthan, C.M.S., Panwar, O.S. Correlation of sp<sub>3</sub> and sp<sub>2</sub> fraction of carbon with electrical, optical and nano-mechanical properties of argon-diluted diamond-like carbon films, Applied Surface Science, volume 257, issue 15, year 2011, pp. 6804 – 6810.

Цитирана е:

Tinchev, S.S., Dyulgarska, Y., Nikolova, P., Grambole, D., Kreissig, U., Babeva, T.Z., Optical properties of PECVD deposited DLC films prepared with air addition, Journal of Optoelectronics and Advanced Materials, volume 8, issue 1, year 2006, pp. 308 – 311.

230. Peng, T., Lv, H., He, D., Pan, M. & Mu, S. Direct Transformation of Amorphous Silicon Carbide into Graphene under Low Temperature and Ambient Pressure. Sci. Rep. 3, 1148; DOI:10.1038/srep01148 (2013).

Цитирана е:

S.S. Tinchev, Applied Surface Science 258 (2012) 2931.

231. Arghya Narayan Banerjeea, Bong-Ki Minb, Sang Woo Jooa, Synthesis of metal-incorporated graphitic microporous carbon terminated with highly-ordered graphene walls—Controlling the number of graphene layers by ambient-temperature metal sputtering, Applied Surface Science 268 (2013) 588–600.

Цитирана е:

S.S. Tinchev, Applied Surface Science 258 (2012) 2931.

232. Cybart, S.A., Roediger, P., Chen, K., Parker, J.M., Cho, E.Y., Wong, T.J., Dynes, R.C., Temporal stability of Y-Ba-Cu-O Nano Josephson junctions from ion irradiation (2013) IEEE Transactions on Applied Superconductivity, 23 (3), 1100103.

Цитирана е: S. S. Tinchev, “Investigations of rf SQUIDs made from epitaxial YBCO films,” Supercond. Sci. Technol., vol. 3, pp. 500–503, 1990.

233. Hiroto Tachikawa, Tetsuji Iyama, and Hiroshi Kawabata, Interaction of Hydroxyl OH Radical with Graphene Surface: A Density Functional Theory Study, Japanese Journal of Applied Physics 52 (2013) 01AH01.

Цитирана е:

S.S. Tinchev, Applied Surface Science 258 (2012) 2931.

234. Khan, S.A., Tripathi, A., Toulemonde, M., Trautmann, C., Assmann, W.

Sputtering yield of amorphous 13C thin films under swift heavy-ion irradiation, Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms volume 314, issue , year 2013, pp. 34 - 38.

Цитирана е:

Surface modification of diamond-like carbon films to graphene under low energy ion beam irradiation Tinchev, S.S. Applied Surface Science volume 258, issue 7, year 2012, pp. 2931 – 2934.

235. Siraj, K., Javaid, K., Pedarnig, J.D., Bodea, M.A., Naseem, S., Electron beam induced nanostructures and band gap tuning of ZnO thin films 2013 *Journal of Alloys and Compounds* 563 , pp. 280-284

Цитирана е:

Tinchev, S.S., Irradiation effects in YBCO thin films (2005) *Journal of Optoelectronics and Advanced Materials*, 7(3), pp.1253-1258.

236. Zhao, G., Jia, J., Jiang, F., Lei, L., Ma, J., Fabrication of YBCO superconducting microarray by sol-gel process using photosensitive metal chelates, 2013 *Science China Technological Sciences* 56 (6) , pp. 1409-1414

Цитирана е:

Tinchev S.S. Application of ion beam techniques in superconducting electronics 2002, *Vacuum*, (1-3) 17-25.

237. CURRENT PHASE RELATION IN HIGH-T(C) WEAK LINKS MADE BY OXYGEN-ION IRRADIATION By: TINCHEV, SS PHYSICA C Volume: 222 Issue: 1-2 Pages: 173-176 Published: MAR 10 1994

Цитирана от:

Unusual Rectifying Response of Nanojunctions Using Randomly Oriented Nanorods (RON) of ZnO Irradiated with 80-MeV Oxygen Ions By: Bayan, Sayan; Mohanta, Dambarudhar JOURNAL OF ELECTRONIC MATERIALS Volume: 41 Issue: 7 Pages: 1955-1961 Published: JUL 2012

238. Properties of YBCO weak links prepared by local oxygen-ion induced modification By: Tinchev, SS PHYSICA C Volume: 256 Issue: 1-2 Pages: 191-198 Published: JAN 1 1996

Цитирана от:

Unusual Rectifying Response of Nanojunctions Using Randomly Oriented Nanorods (RON) of ZnO Irradiated with 80-MeV Oxygen Ions By: Bayan, Sayan; Mohanta, Dambarudhar JOURNAL OF ELECTRONIC MATERIALS Volume: 41 Issue: 7 Pages: 1955-1961 Published: JUL 2012

239. a-C : H absorber layer for solar cells matched to solar spectrum By: Tinchev, SS; Nikolova, PI; Dyulgarska, JT; et al. SOLAR ENERGY MATERIALS AND SOLAR CELLS Volume: 86 Issue: 3 Pages: 421-426 Published: MAR 31 2005

Цитирана от:

Oxygen modified diamond-like carbon as window layer for amorphous silicon solar cells By: Dwivedi, Neeraj; Kumar, Sushil; Singh, Sukhbir; et al. SOLAR ENERGY Volume: 86 Issue: 1 Pages: 220-230 Published: JAN 2012

240. a-C : H absorber layer for solar cells matched to solar spectrum By: Tinchev, SS; Nikolova, PI; Dyulgarska, JT; et al. SOLAR ENERGY MATERIALS AND SOLAR CELLS Volume: 86 Issue: 3 Pages: 421-426 Published: MAR 31 2005

Цитирана от:

Studies of pure and nitrogen-incorporated hydrogenated amorphous carbon thin films and their possible application for amorphous silicon solar cells By: Dwivedi, Neeraj; Kumar, Sushil; Malik, Hitendra K. JOURNAL OF APPLIED PHYSICS Volume: 111 Issue: 1 Article Number: 014908 Published: JAN 1 2012

241. a-C : H absorber layer for solar cells matched to solar spectrum By: Tinchev, SS; Nikolova, PI; Dyulgarska, JT; et al. SOLAR ENERGY MATERIALS AND SOLAR CELLS Volume: 86 Issue: 3 Pages: 421-426 Published: MAR 31 2005

Цитирана от:

Multilayer amorphous hydrogenated carbon (a-C:H) and SiO<sub>x</sub> doped a-C:H films for optical applications By: Tamuleviciene, Asta; Meskinis, Sarunas; Kopustinskas, Vitoldas; et al. THIN SOLID FILMS Volume: 519 Issue: 12 Special Issue: SI Pages: 4004-4007 Published: APR 1 2011

242. a-C : H absorber layer for solar cells matched to solar spectrum By: Tinchev, SS; Nikolova, PI; Dyulgarska, JT; et al. SOLAR ENERGY MATERIALS AND SOLAR CELLS Volume: 86 Issue: 3 Pages: 421-426 Published: MAR 31 2005

Цитирана от:

Optical Properties of a-C:H Films Deposited by Plasma Microwave Discharge with Controlling Substrate Temperature By: Kihel, M.; Sahli, S.; Clergereaux, R.; et al. Edited by: Amara, E; BennaceurDoumaz, D Conference: 2nd Conference on Laser and Plasma Applications in Materials Science Location: Algiers, ALGERIA Date: NOV 27-30, 2010

LASER AND PLASMA APPLICATIONS IN MATERIALS SCIENCE Book Series: Advanced Materials Research Volume: 227 Pages: 200-203 Published: 2011

243. a-C : H absorber layer for solar cells matched to solar spectrum By: Tinchev, SS; Nikolova, PI; Dyulgarska, JT; et al. SOLAR ENERGY MATERIALS AND SOLAR CELLS Volume: 86 Issue: 3 Pages: 421-426 Published: MAR 31 2005

Цитирана от:

Improvements of hybrid PV-T solar energy systems using Amlouk-Boubaker optothermal expansivity optimizing abacus sketch By: Boubaker, K.; Amlouk, M. SOLAR ENERGY Volume: 84 Issue: 10 Pages: 1873-1877 Published: OCT 2010

**244. Optical properties of PECVD deposited DLC films prepared with air addition**

By: Tinchev, SS; Dyulgarska, Y; Nikolova, P; et al. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 8 Issue: 1 Pages: 308-311 Published: FEB 2006

Цитирана от:

Ion mass spectrometry investigations of the discharge during reactive high power pulsed and direct current magnetron sputtering of carbon in Ar and Ar/N<sub>2</sub> By: Schmidt, S.; Czigany, Zs.; Greczynski, G.; et al. JOURNAL OF APPLIED PHYSICS Volume: 112 Issue: 1 Article Number: 013305 Published: JUL 1 2012

**245. Optical properties of PECVD deposited DLC films prepared with air addition**

By: Tinchev, SS; Dyulgarska, Y; Nikolova, P; et al. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 8 Issue: 1 Pages: 308-311 Published: FEB 2006

Цитирана от:

Investigation of properties of Cu containing DLC films produced by PECVD process By: Dwivedi, Neeraj; Kumar, Sushil; Malik, Hitendra K.; et al. JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume: 73 Issue: 2 Pages: 308-316 Published: FEB 2012

**246. Optical properties of PECVD deposited DLC films prepared with air addition**

By: Tinchev, SS; Dyulgarska, Y; Nikolova, P; et al. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 8 Issue: 1 Pages: 308-311 Published: FEB 2006

Цитирана от:

PREPARATION AND CHARACTERIZATION OF DIAMOND-LIKE CARBON FILMS ON VARIOUS SUBSTRATES BY PECVD SYSTEM By: Vaghri, Elnaz; Khalaj, Zahra; Ghoranneviss, Mahmood STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA Volume: 57 Issue: 3 Pages: 143-150 Published: 2012

**247. Optical properties of PECVD deposited DLC films prepared with air addition**

By: Tinchev, SS; Dyulgarska, Y; Nikolova, P; et al. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 8 Issue: 1 Pages: 308-311 Published: FEB 2006

Цитирана от:

Correlation of sp(3) and sp(2) fraction of carbon with electrical, optical and nano-mechanical properties of argon-diluted diamond-like carbon films By: Dwivedi, Neeraj; Kumar, Sushil; Malik, H. K.; et al. APPLIED SURFACE SCIENCE Volume: 257 Issue: 15 Pages: 6804-6810 Published: MAY 15 2011

**248. Optical properties of PECVD deposited DLC films prepared with air addition**

By: Tinchev, SS; Dyulgarska, Y; Nikolova, P; et al. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 8 Issue: 1 Pages: 308-311 Published: FEB 2006

Цитирана от:

Role of Metallic Ni-Cr Dots on the Adhesion, Electrical, Optical and Mechanical Properties of Diamond-like Carbon Thin Films By: Dwivedi, Neeraj; Kumar, Sushil; Rauthan, Chandra Mohan Singh; et al. PLASMA PROCESSES AND POLYMERS Volume: 8 Issue: 2 Pages: 100-107 Published: FEB 22 2011

**249. Optical properties of PECVD deposited DLC films prepared with air addition**

By: Tinchev, SS; Dyulgarska, Y; Nikolova, P; et al. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 8 Issue: 1 Pages: 308-311 Published: FEB 2006

Цитирана от:

Studies of nanostructured copper/hydrogenated amorphous carbon multilayer films By: Dwivedi, Neeraj; Kumar, Sushil; Ishpal; et al. JOURNAL OF ALLOYS AND COMPOUNDS Volume: 509 Issue: 4 Pages: 1285-1293 Published: JAN 28 2011

**250. Optical properties of PECVD deposited DLC films prepared with air addition**

By: Tinchev, SS; Dyulgarska, Y; Nikolova, P; et al. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 8 Issue: 1 Pages: 308-311 Published: FEB 2006

Цитирана от:

POLYMER-LIKE AND DIAMOND-LIKE CARBON COATINGS PREPARED BY RF-PECVD FOR BIOMEDICAL APPLICATIONS By: Stan, G. E.; Marcov, D. A.; Popa, A. C.; et al. DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES Volume: 5 Issue: 3 Pages: 705-718 Published: JUL-SEP 2010

**251. Surface modification of diamond-like carbon films to graphene under low energy ion beam irradiation**

By: Tinchev, S. S. APPLIED SURFACE SCIENCE Volume: 258 Issue: 7 Pages: 2931-2934 Published: JAN 15 2012

Цитирана от:

Sputtering yield of amorphous C-13 thin films under swift heavy-ion irradiation By: Khan, Saif A.; Tripathi, Ambuj; Toulemonde, Marcel; et al. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS Volume: 314 Pages: 34-38 Published: NOV 1 2013

**252. Surface modification of diamond-like carbon films to graphene under low energy ion beam irradiation**

By: Tinchev, S. S. APPLIED SURFACE SCIENCE Volume: 258 Issue: 7 Pages: 2931-2934 Published: JAN 15 2012

Цитирана от:

The effects of low power density CO<sub>2</sub> laser irradiation on graphene properties By: Huang, Ting; Long, Jiangyou; Zhong, Minlin; et al. APPLIED SURFACE SCIENCE Volume: 273 Pages: 502-506 Published: MAY 15 2013

**253. Surface modification of diamond-like carbon films to graphene under low energy ion beam irradiation**

By: Tinchev, S. S. APPLIED SURFACE SCIENCE Volume: 258 Issue: 7 Pages: 2931-2934 Published: JAN 15 2012

Цитирана от:

Synthesis of metal-incorporated graphitic microporous carbon terminated with highly-ordered graphene walls-Controlling the number of graphene layers by ambient-temperature metal sputtering By: Banerjee, Arghya Narayan; Min, Bong-Ki; Joo, Sang

Woo APPLIED SURFACE SCIENCE Volume: 268 Pages: 588-600 Published: MAR 1 2013

254. Surface modification of diamond-like carbon films to graphene under low energy ion beam irradiation By: Tinchev, S. S. APPLIED SURFACE SCIENCE Volume: 258 Issue: 7 Pages: 2931-2934 Published: JAN 15 2012

Цитирана от:

Direct Transformation of Amorphous Silicon Carbide into Graphene under Low Temperature and Ambient Pressure By: Peng, Tao; Lv, Haifeng; He, Daping; et al. SCIENTIFIC REPORTS Volume: 3 Article Number: 1148 Published: JAN 28 2013

255. Surface modification of diamond-like carbon films to graphene under low energy ion beam irradiation By: Tinchev, S. S. APPLIED SURFACE SCIENCE Volume: 258 Issue: 7 Pages: 2931-2934 Published: JAN 15 2012

Цитирана от:

Interaction of Hydroxyl OH Radical with Graphene Surface: A Density Functional Theory Study By: Tachikawa, Hiroto; Iyama, Tetsuji; Kawabata, Hiroshi JAPANESE JOURNAL OF APPLIED PHYSICS Volume: 52 Issue: 1 Special Issue: SI Article Number: 01AH01 Part: 2 Published: JAN 2013

256. Mechanism of operation of Josephson junctions made from HTc materials by ion modification By: Tinchev, Savcho S. Conference: 8th International Conference on Materials and Mechanisms of Superconductivity and High Temperature Superconductors Location: Dresden, GERMANY Date: JUL 09-14, 2006 PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS Volume: 460 Pages: 1477-1478 Part: 2 Published: SEP 1 2007

Цитирана от:

High-T-c Josephson junctions By: Seidel, P. Edited by: Qiu, XG HIGH-TEMPERATURE SUPERCONDUCTORS Book Series: Woodhead Publishing in Materials Pages: 317-369 Published: 2011

257. Mechanism of operation of Josephson junctions made from HTc materials by ion modification By: Tinchev, Savcho S. Conference: 8th International Conference on Materials and Mechanisms of Superconductivity and High Temperature Superconductors Location: Dresden, GERMANY Date: JUL 09-14, 2006 PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS Volume: 460 Pages: 1477-1478 Part: 2 Published: SEP 1 2007

Цитирана от:

Influence of ion implantation on the magnetic and transport properties of manganite films By: Sirena, M.; Zimmers, A.; Haberkorn, N.; et al. PHYSICAL REVIEW B Volume: 81 Issue: 13 Article Number: 134439 Published: APR 1 2010

258. Conversion of magnetron deposited TiC films into rutile TiO<sub>2</sub> By: Nikolova, P; Petkov, M; Tinchev, S; et al. Conference: 14th Biannual International Summer School

on Vacuum, Electron and Ion Technologies Location: Burgas, BULGARIA Date: SEP 12-16, 2005 PLASMA PROCESSES AND POLYMERS Volume: 3 Issue: 2 Pages: 188-191 Published: FEB 17 2006

Цитирана от:

Corrosion behavior of selected M<sub>(n+1)</sub>AX<sub>(n)</sub> phases in hot concentrated HCl solution: Effect of A element and MX layer By: Xie, Jie; Wang, Xiaohui; Li, Aijun; et al. CORROSION SCIENCE Volume: 60 Pages: 129-135 Published: JUL 2012

259. Electrical properties of (a-C : H)/Si and (a-C : H)/Ti heterostructures By: Tinchev, S.; Dyulgarska, Y.; Nikolova, P.; et al. Conference: 14th International School on Condensed Matter Physics Location: Varna, BULGARIA Date: SEP 17-22, 2006 JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 9 Issue: 2 Pages: 386-389 Published: FEB 2007

Цитирана от:

Current-Voltage Characteristics of in Situ Graphitization of Hydrocarbon Coated on ZnSe Nanowire By: Wang, Y. G.; Xia, M. X.; Zou, B. S.; et al. JOURNAL OF PHYSICAL CHEMISTRY C Volume: 114 Issue: 30 Pages: 12839-12849 Published: AUG 5 2010

260. Irradiation effects in YBCO thin films By: Tinchev, SS Conference: 3rd International Symposium on Irradiation Induced Phenomena in Chalcogenide, Oxide and Organic Thin Films Location: Tryavna, BULGARIA Date: JUN 15-19, 2005 Sponsor(s): Cent Lab Photoproc, Acad J Malinowski; Bulgarian Acad Sci JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 7 Issue: 3 Pages: 1253-1258 Published: JUN 2005

Цитирана от:

Electron beam induced nanostructures and band gap tuning of ZnO thin films By: Siraj, K.; Javaid, Kashif; Pedarnig, J. D.; et al. JOURNAL OF ALLOYS AND COMPOUNDS Volume: 563 Pages: 280-284 Published: JUN 25 2013

261. Tao Peng, Haifeng Lv, Daping He, Mu Pan & Shichun Mu, Direct Transformation of Amorphous Silicon Carbide into Graphene under Low Temperature and Ambient Pressure, SCIENTIFIC REPORTS | 3 : 1148 | DOI: 10.1038/srep01148

Цитирана е: Tinchev, S. S. Surface modification of diamond-like carbon films to graphene under low energy ion beam irradiation. Appl. Surf. Sci. 7, 2931–2934 (2012).