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1. СПИСЪК НА ЦИТАТИТЕ НА НАУЧНИТЕ ТРУДОВЕ (БЕЗ АВТОЦИТАТИ) НА ПРОФ. ДФН Т. МИШОНОВ В НАУЧНИ ПУБЛИКАЦИИ У НАС И В ЧУЖБИНА, ВКЛЮЧИТЕЛНО Н-ФАКТОР

1. Z.D. Dimitrov, Y.G. Maneva, T. S. Hristov and T.M. Mishonov. *Over-reflection of Slow Magnetosonic Waves by Homogeneous Shear Flow. Analytical Solution*, Phys. Plasmas **18**, (2011).
 - 1.1. **Title:** Nonlinear transverse cascade and two-dimensional magnetohydrodynamic subcritical turbulence in plane shear flows
By: Mamatsashvili, G. R.; Gogichaishvili, D. Z.; Chagelishvili, G. D.; et al.
Source: PHYSICAL REVIEW E **Volume:** 89 **Issue:** 4 **Article Number:** 043101 **Published:** APR 2 2014
2. V.F. Kozhevnikov, C.V. Giuraniuc, M.J. Van Bael, K. Temst, C. Van Haesendonck, T.M. Mishonov, T. Charlton, R.M. Dalgliesh, Yu. N. Khaidukov, Yu. V. Nikitenko, V.L. Aksenov, V.N. Gladilin, V.M. Fomin, J.T. Devreese, and J.O. Indekeu, *Evidence for nonmonotonic magnetic field penetration in a type-I superconductor*, <http://dx.doi.org/10.1103/PhysRevB.78.012502>; Phys.Rev. B **78**, 012502 (2008), *in Web of Science Cited 4 times*
 - 2.1. **Title:** The multipurpose time-of-flight neutron reflectometer "Platypus" at Australia's OPAL reactor
By: James, M.; Nelson, A.; Holt, S. A.; et al.
Source: NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT **Volume:** 632 **Issue:** 1 **Pages:** 112-123 **Published:** MAR 11 2011
 - 2.2. **Title:** Nonlocal effect and dimensions of Cooper pairs measured by low-energy muons and polarized neutrons in type-I superconductors
By: Kozhevnikov, V.; Suter, A.; Fritzsche, H.; et al.
Source: PHYSICAL REVIEW B **Volume:** 87 **Issue:** 10 **Article Number:** 104508 **Published:** MAR 11 2013
 - 2.3. **Title:** Project of the new multifunctional reflectometer GRAINS with horizontal sample plane at the IBR-2M pulsed reactor in Dubna
By: Avdeev, M. V.; Bodnarchuk, V. I.; Lauter-Pasyuk, V. V.; et al.
Conference: International Conference on Neutron Scattering 2009 **Location:** Knoxville, TN **Date:** MAY 03-07, 2009
Source: INTERNATIONAL CONFERENCE ON NEUTRON SCATTERING 2009 **Book Series:** Journal of Physics Conference Series **Volume:** 251 **Article Number:** 012060 **Published:** 2010
 - 2.4. **Title:** Non-local electrodynamic effect on surface superconductivity
By: Van Caueren, T.; Indekeu, J. O.
Source: EPL **Volume:** 94 **Issue:** 4 **Article Number:** 46001 **Published:** MAY 2011
3. T. M. Mishonov, S. I. Klenov and E. S. Penev, "Temperature dependence of specific heat for anisotropic-gap BCS superconductors", cond-mat/0212491 (2002), Phys. Rev. B **71**, 024520 (2005).
 - 3.1. **Title:** Elaboration of the alpha-model derived from the BCS theory of superconductivity
By: Johnston, David C.
Source: SUPERCONDUCTOR SCIENCE & TECHNOLOGY **Volume:** 26 **Issue:** 11 **Article Number:** 115011 **Published:** NOV 2013
 - 3.2. **Title:** A model with electron-phonon interaction for high-T-c d-wave cuprates
By: Orozco, S.; Mendez-Moreno, R. M.; Ortiz, M. A.
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 478 **Pages:** 38-41 **Published:** AUG 2012
 - 3.3. **Title:** Doped high-T-c superconductors under pressure
By: Orozco, S.; Ortiz, M. A.; Mendez-Moreno, R. M.; et al.
Source: PHYSICA B-CONDENSED MATTER **Volume:** 403 **Issue:** 23-24 **Pages:** 4209-4212 **Published:** DEC 15 2008
4. T.M. Mishonov, V.L. Pokrovsky and H. Wei, "Thermodynamics of MgB₂ described by the weak-coupling two-band BCS model", Phys. Rev. **71**, 012514 (2005); cond-mat/0312210 (2005).
 - 4.1. **Title:** Current progress in the theoretical understanding of MgB₂
By: Kortus, Jens
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 456 **Issue:** 1-2 **Pages:** 54-62 **Published:** JUN 1 2007
 - 4.2. **Title:** A review of two-band superconductivity: materials and effects on the thermodynamic and reversible mixed-state properties
By: Zehetmayer, M.



- Source:** SUPERCONDUCTOR SCIENCE & TECHNOLOGY **Volume:** 26 **Issue:** 4 **Article Number:** 043001 **Published:** APR 2013
- 4.3. **Title:** Critical temperature of MgB₂ ultrathin superconducting films: BCS model calculations in the tight-binding approximation
By: Szalowski, Karol
Source: PHYSICAL REVIEW B **Volume:** 74 **Issue:** 9 **Article Number:** 094501 **Published:** SEP 2006
- 4.4. **Title:** Temperature dependence of transmittance and effective surface resistance of MgB₂ film
By: Moarrefi-Romeileh, M.; Yavari, H.; Joata-bayrami, A. A.; et al.
Source: PHYSICA B-CONDENSED MATTER **Volume:** 406 **Issue:** 21 **Pages:** 4135-4138 **Published:** NOV 1 2011
- 4.5. **Title:** Investigate the effect of anisotropic order parameter on the specific heat of anisotropic two-band superconductors
By: Udomsamuthirun, P.; Peamsuwan, R.; Kumvongsa, C.
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 469 **Issue:** 13 **Pages:** 736-739 **Published:** JUL 1 2009
- 4.6. **Title:** Bound states of Cooper pairs and electrons in the superconducting phase of MgB₂
By: Karchev, N
Source: JOURNAL OF PHYSICS-CONDENSED MATTER **Volume:** 18 **Issue:** 5 **Pages:** 1553-1560 **Published:** FEB 8 2006
5. A. Lascialfari, T. Mishonov, A. Rigamonti, I. Zucca, G. Behr, W. Loser, and S.-L. Drechsler, "Precursor diamagnetism above the superconducting transition in YNi₂B₂C", Eur. Phys. J. B **35**, 325-329 (2004).
- 5.1. **Title:** Rare-earth metal transition metal borocarbide and nitridoborate superconductors
By: Niewa, Rainer; Shlyk, Larysa; Blaschkowski, Bjoern
Source: ZEITSCHRIFT FUR KRISTALLOGRAPHIE **Volume:** 226 **Issue:** 4 **Pages:** 352-384 **Published:** 2011
- 5.2. **Title:** Diamagnetism, Nernst signal, and finite-size effects in superconductors above the transition temperature T_c
By: Schneider, T.; Weyeneth, S.
Source: PHYSICAL REVIEW B **Volume:** 83 **Issue:** 14 **Article Number:** 144527 **Published:** APR 28 2011
- 5.3. **Title:** Superconducting fluctuating diamagnetism in neutron irradiated MgB₂(2) in relation to precursor diamagnetism in Al-doped MgB₂(2)
By: Bernardi, E.; Lascialfari, A.; Rigamonti, A.; et al.
Source: PHYSICAL REVIEW B **Volume:** 77 **Issue:** 6 **Article Number:** 064502 **Published:** FEB 2008
- 5.4. **Title:** Superconducting fluctuating diamagnetism versus precursor diamagnetism in heterogeneous superconductors
By: Rigamonti, A.; Lascialfari, A.; Romano, L.; et al.
Conference: International Conference on Nanoscale Heterogeneity and Quantum Phenomena in Complex Matter
Location: Rome, ITALY **Date:** SEP 26-OCT 01, 2004
Source: JOURNAL OF SUPERCONDUCTIVITY **Volume:** 18 **Issue:** 5-6 **Pages:** 763-767 **Published:** NOV 2005
6. S.-L. Drechsler, H. Rosner, J.M. An, W.E. Pickett, V.D.P. Servedio, T. Mishonov, and K. Winzer, "Conventional Electronic Structure of MgB₂ and ZrB₂: LDA vs de Haas-v. Alphen & ARPES data", J. Low Temp. Phys. **131**, 1175-1180 (2003).
- 6.1. **Title:** Theoretical study of the electronic structures of HfB₂(0001)-X (X = Li-Ne) surfaces
By: Hayami, W; Aizawa, T; Tanaka, T; et al.
Source: JOURNAL OF PHYSICAL CHEMISTRY B **Volume:** 108 **Issue:** 39 **Pages:** 15233-15237 **Published:** SEP 30 2004
- 6.2. **Title:** Experimental study of electron-phonon properties in ZrB₂
By: Forzani, E; Winzer, K
Source: EUROPEAN PHYSICAL JOURNAL B **Volume:** 51 **Issue:** 1 **Pages:** 29-40 **Published:** MAY 2006
7. T. M. Mishonov, G. V. Pachov, I. N. Genchev, L. A. Atanasova and D. C. Damianov, "Kinetics and Boltzmann kinetic equation for fluctuation Cooper pairs", Phys. Rev. B **68**, 054525 (2003); cond-mat/0302046; (original first manuscript: T.M. Mishonov and D. Ch. Damianov, "Fluctuation conductivity of superconductors within the framework of time-dependent Ginzburg-Landau theory", Submitted to Phys. Rev. B, (1996) Ms. Code: Bu 5876).
- 7.1. **Title:** Paraconductivity of underdoped La_{2-x}Sr_xCuO₄ thin-film superconductors using high magnetic fields
By: Leridon, B.; Vanacken, J.; Wambecq, T.; et al.
Source: PHYSICAL REVIEW B **Volume:** 76 **Issue:** 1 **Article Number:** 012503 **Published:** JUL 2007
- 7.2. **Title:** Phonon mode spectroscopy, electron-phonon coupling, and the metal-insulator transition in quasi-one-dimensional M₂Mo₆Se₆
By: Petrovic, A. P.; Lortz, R.; Santi, G.; et al.
Source: PHYSICAL REVIEW B **Volume:** 82 **Issue:** 23 **Article Number:** 235128 **Published:** DEC 21 2010
- 7.3. **Title:** Non-Ohmic critical fluctuation Hall conductivity of layered superconductors in strong electric fields
By: Puica, I; Lang, W
Source: PHYSICAL REVIEW B **Volume:** 70 **Issue:** 9 **Article Number:** 092507 **Published:** SEP 2004



- 7.4. **Title:** Extended paraconductivity regime in underdoped cuprates
By: Caprara, S; Grilli, M; Leridon, B; et al.
Source: PHYSICAL REVIEW B **Volume:** 72 **Issue:** 10 **Article Number:** 104509 **Published:** SEP 2005
- 7.5. **Title:** Microwave fluctuational conductivity in YBa₂Cu₃O₇-delta
By: Silva, E; Marcon, R; Sarti, S; et al.
Source: EUROPEAN PHYSICAL JOURNAL B **Volume:** 37 **Issue:** 3 **Pages:** 277-284 **Published:** FEB 2004
- 7.6. **Title:** Drag effect and Cooper electron-hole pair fluctuations in a topological insulator film
By: Efimkin, D. K.; Lozovik, Yu. E.
Source: PHYSICAL REVIEW B **Volume:** 88 **Issue:** 23 **Article Number:** 235420 **Published:** DEC 17 2013
8. T. M. Mishonov, E. S. Penev, J. O. Indekeu and V. L. Pokrovsky, "Specific heat discontinuity in impure two band superconductors", Phys. Rev. B **68**, 104517 (2003); cond-mat/0209342.
- 8.1. **Title:** Jump in specific heat at the superconducting transition temperature in Ba(Fe_{1-x}Cox)₂As₂ and Ba(Fe_{1-x}Nix)₂As₂ single crystals
By: Bud'ko, Sergey L.; Ni, Ni; Canfield, Paul C.
Source: PHYSICAL REVIEW B **Volume:** 79 **Issue:** 22 **Article Number:** 220516 **Published:** JUN 2009
- 8.2. **Title:** Properties of the superconducting state in a two-band model
By: Nicol, EJ; Carbotte, JP
Source: PHYSICAL REVIEW B **Volume:** 71 **Issue:** 5 **Article Number:** 054501 **Published:** FEB 2005
- 8.3. **Title:** Thermodynamics of two-band superconductors: The case of MgB₂
By: Dolgov, OV; Kremer, RK; Kortus, J; et al.
Source: PHYSICAL REVIEW B **Volume:** 72 **Issue:** 2 **Article Number:** 024504 **Published:** JUL 2005
- 8.4. **Title:** Current progress in the theoretical understanding of MgB₂
By: Kortus, Jens
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 456 **Issue:** 1-2 **Pages:** 54-62 **Published:** JUN 1 2007
- 8.5. **Title:** Effect of nonmagnetic and magnetic impurities on the specific heat jump in anisotropic superconductors
By: Openov, LA
Source: PHYSICAL REVIEW B **Volume:** 69 **Issue:** 22 **Article Number:** 224516 **Published:** JUN 2004
- 8.6. **Title:** Superconductivity in two-band system with low carrier density
By: Palistrant, ME
Source: INTERNATIONAL JOURNAL OF MODERN PHYSICS B **Volume:** 19 **Issue:** 6 **Pages:** 929-970 **Published:** MAR 10 2005
- 8.7. **Title:** Anomalous specific-heat jump in the heavy-fermion superconductor CeCoIn₅
By: Bang, Y; Balatsky, AV
Source: PHYSICAL REVIEW B **Volume:** 69 **Issue:** 21 **Article Number:** 212504 **Published:** JUN 2004
- 8.8. **Title:** The theory of thermodynamic and magnetic properties of multi-band superconductors
By: Palistrant, M. E.
Conference: 3rd Conference on Statistical Physics **Location:** Lviv, UKRAINE **Date:** JUN 23-25, 2009
Source: CONDENSED MATTER PHYSICS **Volume:** 12 **Issue:** 4 **Pages:** 677-687 **Published:** 2009
- 8.9. **Title:** Two-band superconductivity theory beyond the Migdal theorem
By: Palistrant, M. E.; Ursu, V. A.
Source: THEORETICAL AND MATHEMATICAL PHYSICS **Volume:** 149 **Issue:** 1 **Pages:** 1393-1406 **Published:** OCT 2006
9. T. Mishonov, S.-L. Drechsler and E. Penev, "Influence of the Van Hove singularity on the specific heat jump in BCS superconductors", cond-mat/0209192, Mod. Phys. Lett. B **17**, 755-762 (2003).
- 9.1. **Title:** Thermodynamics of two-band superconductors: The case of MgB₂
By: Dolgov, OV; Kremer, RK; Kortus, J; et al.
Source: PHYSICAL REVIEW B **Volume:** 72 **Issue:** 2 **Article Number:** 024504 **Published:** JUL 2005
- 9.2. **Title:** Current progress in the theoretical understanding of MgB₂
By: Kortus, Jens
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 456 **Issue:** 1-2 **Pages:** 54-62 **Published:** JUN 1 2007
- 9.3. **Title:** Superconductivity in two-band system with low carrier density
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- Conference:** 3rd Conference on Statistical Physics **Location:** Lviv, UKRAINE **Date:** JUN 23-25, 2009
Source: CONDENSED MATTER PHYSICS **Volume:** 12 **Issue:** 4 **Pages:** 677-687 **Published:** 2009
- 9.5. **Title:** Two-band superconductivity theory beyond the Migdal theorem
By: Palistrant, M. E.; Ursu, V. A.
Source: THEORETICAL AND MATHEMATICAL PHYSICS **Volume:** 149 **Issue:** 1 **Pages:** 1393-1406 **Published:** OCT 2006
10. Cheenne, N, Mishonov, T, Indekeu, JO, "Observation of a sharp lambda peak in the third harmonic voltage response of high-T-c superconductor thin films", cond-mat/0110632, Eur. Pys. Journal B **32** (4) 437-444 (2003).
- 10.1. **Title:** Higher harmonics of ac voltage response in narrow strips of YBa2Cu3O7 thin films: evidence for strong thermal fluctuations
By: Ossandon, JG; Sergeenkov, S; Esquinazi, P; et al.
Source: SUPERCONDUCTOR SCIENCE & TECHNOLOGY **Volume:** 18 **Issue:** 3 **Pages:** 325-329 **Published:** MAR 2005
- 10.2. **Title:** Non-linear response of ac conductivity in narrow YBCO film strips at the superconducting transition
By: Ossandon, J. G.; Giordano, J. L.; Esquinazi, P.; et al.
Edited by: Weber, HW; Sauerzopf, FM
Conference: 7th European Conference on Applied Superconductivity **Location:** Vienna Univ Technol, Vienna, AUSTRIA
Date: SEP 11-15, 2005
Source: 7TH EUROPEAN CONFERENCE ON APPLIED SUPERCONDUCTIVITY (EUCAS'05) **Book Series:** Journal of Physics Conference Series **Volume:** 43 **Pages:** 655-658 **Published:** 2006
- 10.3. **Title:** Contactless measurement of nonlinear conductivity in the radio-frequency range
By: Doslic, Marija; Pelc, Damjan; Pozek, Miroslav
Source: REVIEW OF SCIENTIFIC INSTRUMENTS **Volume:** 85 **Issue:** 7 **Article Number:** 073905 **Published:** JUL 2014
- 10.4. **Title:** Nonlinear electronic transport in the anomalous metallic state of quasi-2D organic superconductors kappa-(BEDT-TTF)2X
By: Rommel, R.; Hartmann, B.; Brandenburg, J.; et al.
Source: PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS **Volume:** 250 **Issue:** 3 **Special Issue:** SI **Pages:** 568-574 **Published:** MAR 2013
11. T. M. Mishonov, J. O. Indekeu and E. S. Penev, "Superconductivity of overdoped cuprates: the modern face of the ancestral two-electron exchange", cond-mat/0209191, J. Phys.: Condens. Matter **15**, 4429-4456 (2003).
- 11.1. **Title:** Design of a quantum source of High-Frequency Gravitational Waves (HFGW) and test methodology
By: Fontana, G
Edited by: ElGenk, MS
Conference: Space Technology and Applications International Forum (STAIF 2004) **Location:** Albuquerque, NM **Date:** FEB 08-11, 2004 **Sponsor(s):** Boeing Co; Gen Autom; Lockheed Martin; Los Alamos Natl Lab; Northrop Grumman Space Technol; Sandia Natl Labs; US DOE
Source: SPACE TECHNOLOGY AND APPLICATIONS INTERNATIONAL FORUM-STAIF 2004 **Book Series:** AIP CONFERENCE PROCEEDINGS **Volume:** 699 **Pages:** 1114-1121 **Published:** 2004
- 11.2. **Title:** Peculiarities of pair interaction in the four-band Hubbard model
By: Digor, D. F.; Entel, P.; Moskalenko, V. A.; et al.
Source: THEORETICAL AND MATHEMATICAL PHYSICS **Volume:** 149 **Issue:** 1 **Pages:** 1382-1392 **Published:** OCT 2006
- 11.3. **Title:** Non-separable pairing interaction kernels applied to superconducting cuprates
By: Haley, Stephen B.; Fink, Herman J.
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 500 **Pages:** 44-55 **Published:** MAY 15 2014
12. T. M. Mishonov, E. S. Penev and J. O. Indekeu, *Comment on "Anisotropic s-wave superconductivity: comparison with experiments on MgB₂"* [A. I. Posazhennikova, T. Dahm and K. Maki, cond-mat/0204545; Europhys. Lett. **60** (2002) 134], cond-mat/0205104, Europhys. Lett. **61** (4), pp. 577-578 (2003).
- 12.1. **Title:** Effect of nonmagnetic and magnetic impurities on the specific heat jump in anisotropic superconductors
By: Openov, LA
Source: PHYSICAL REVIEW B **Volume:** 69 **Issue:** 22 **Article Number:** 224516 **Published:** JUN 2004
- 12.2. **Title:** Elaboration of the alpha-model derived from the BCS theory of superconductivity
By: Johnston, David C.
Source: SUPERCONDUCTOR SCIENCE & TECHNOLOGY **Volume:** 26 **Issue:** 11 **Article Number:** 115011 **Published:** NOV 2013



13. T. M. Mishonov, J. P. Wallington, E. S. Penev and J. O. Indekeu, "Reduced pairing Hamiltonian for interatomic two-electron exchange in layered cuprates", cond-mat/0205616, Mod. Phys. Lett. B **16**, 693-699 (2002).
 - 13.1. **Title:** Peculiarities of pair interaction in the four-band Hubbard model
By: Digor, D. F.; Entel, P.; Moskalenko, V. A.; et al.
Source: THEORETICAL AND MATHEMATICAL PHYSICS **Volume:** 149 **Issue:** 1 **Pages:** 1382-1392 **Published:** OCT 2006
14. T. Mishonov and E. Penev, "Thermodynamics of anisotropic-gap and multiband clean BCS superconductors", cond-mat/0206118, IJMPB, **16**, No. **24** (2002) 3573-3586.
 - 14.1. **Title:** Ginzburg-Landau theory of vortices in a multigap superconductor
By: Zhitomirsky, ME; Dao, VH
Source: PHYSICAL REVIEW B **Volume:** 69 **Issue:** 5 **Article Number:** 054508 **Published:** FEB 2004
 - 14.2. **Title:** Thermodynamics of two-band superconductors: The case of MgB2
By: Dolgov, OV; Kremer, RK; Kortus, J; et al.
Source: PHYSICAL REVIEW B **Volume:** 72 **Issue:** 2 **Article Number:** 024504 **Published:** JUL 2005
 - 14.3. **Title:** Current progress in the theoretical understanding of MgB2
By: Kortus, Jens
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 456 **Issue:** 1-2 **Pages:** 54-62 **Published:** JUN 1 2007
 - 14.4. **Title:** Ginzburg-Landau theory: the case of two-band superconductors
By: Askerzade, I. N.
Source: PHYSICS-USPEKHI **Volume:** 49 **Issue:** 10 **Pages:** 1003-1016 **Published:** OCT 2006
 - 14.5. **Title:** Specific heat study of the magnetic superconductor HoNi2B2C
By: Park, T; Salamon, MB; Choi, EM; et al.
Source: PHYSICAL REVIEW B **Volume:** 69 **Issue:** 5 **Article Number:** 054505 **Published:** FEB 2004
 - 14.6. **Title:** Ginzburg-Landau theory for two-band s-wave superconductors: application to non-magnetic borocarbides LuNi2B2C, YNi2B2C and magnesium diboride MgB2
By: Askerzade, IN
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 397 **Issue:** 3-4 **Pages:** 99-111 **Published:** OCT 15 2003
 - 14.7. **Title:** The theory of thermodynamic and magnetic properties of multi-band superconductors
By: Palistrant, M. E.
Conference: 3rd Conference on Statistical Physics **Location:** Lviv, UKRAINE **Date:** JUN 23-25, 2009
Source: CONDENSED MATTER PHYSICS **Volume:** 12 **Issue:** 4 **Pages:** 677-687 **Published:** 2009
 - 14.8. **Title:** Mean-field calculations on the magnetic properties of the two-gap superconductor Lu2Fe3Si5
By: Huang, Hai; Liu, Minxia
Source: PHYSICS LETTERS A **Volume:** 375 **Issue:** 3 **Pages:** 756-761 **Published:** JAN 17 2011
 - 14.9. **Title:** Effect of in-plane anisotropy on specific heat jump of MgB2
By: Udomsamuthirun, P; Rakpanich, S; Yoksan, S
Source: PHYSICA STATUS SOLIDI B-BASIC RESEARCH **Volume:** 240 **Issue:** 3 **Pages:** 591-595 **Published:** DEC 2003
 - 14.10. **Title:** Ginzburg-Landau theory for two-band isotropic s-wave superconductors
By: Askerzade, IN
Source: INTERNATIONAL JOURNAL OF MODERN PHYSICS B **Volume:** 17 **Issue:** 16 **Pages:** 3001-3020 **Published:** JUN 30 2003
 - 14.11. **Title:** Multiband Calculations on the Magnetic Properties of Superconductor KFe2As2
By: Huang, Hai; Lv, Peng-Li
Source: JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM **Volume:** 26 **Issue:** 10 **Pages:** 3037-3041 **Published:** OCT 2013
 - 14.12. **Title:** Investigate the effect of anisotropic order parameter on the specific heat of anisotropic two-band superconductors
By: Udomsamuthirun, P.; Peamsuwan, R.; Kumvongsa, C.
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 469 **Issue:** 13 **Pages:** 736-739 **Published:** JUL 1 2009
 - 14.13. **Title:** Ginzburg-Landau equations for two-band superconductors: Application to MgB2, LuNi2B2C and YNi2B2C
By: Askerzade, IN
Source: PHYSICA SCRIPTA **Volume:** 69 **Issue:** 3 **Pages:** 234-243 **Published:** MAR 2004



- 14.14. **Title:** Order parameter anisotropy of MgB₂ using specific heat jump of layered superconductors
By: Askerzade, IN
Source: PRAMANA-JOURNAL OF PHYSICS **Volume:** 61 **Issue:** 6 **Pages:** 1145-1149 **Published:** DEC 2003
15. T. M. Mishonov, E. S. Penev and J. O. Indekeu, *Comment on "Anisotropic s-wave superconductivity in MgB₂"* [S. Haas and K. Maki, cond-mat/0104207; Phys. Rev. B **65**, 020502 (R) 2001], Phys. Rev. B, **66**, 066501 (2002); cond-mat/0204545.
- 15.1. **Title:** Strongly anisotropic s-wave gaps in exotic superconductors
By: Brandow, BH
Source: PHILOSOPHICAL MAGAZINE **Volume:** 83 **Issue:** 21 **Pages:** 2487-2519 **Published:** JUL 21 2003
- 15.2. **Title:** Heat capacity of mesoscopically inhomogeneous superconductors: theory and applications to MgB₂
By: Gabovich, AM; Li, MS; Pekala, M; et al.
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 405 **Issue:** 3-4 **Pages:** 187-211 **Published:** JUN 15 2004
- 15.3. **Title:** Effect of nonmagnetic and magnetic impurities on the specific heat jump in anisotropic superconductors
By: Openov, LA
Source: PHYSICAL REVIEW B **Volume:** 69 **Issue:** 22 **Article Number:** 224516 **Published:** JUN 2004
- 15.4. **Title:** Elaboration of the alpha-model derived from the BCS theory of superconductivity
By: Johnston, David C.
Source: SUPERCONDUCTOR SCIENCE & TECHNOLOGY **Volume:** 26 **Issue:** 11 **Article Number:** 115011 **Published:** NOV 2013
16. V. D. Servedio, S.-L. Drechsler, and T. Mishonov, "Surface states, interpretation of ARPES data, and possible consequences for the superconductivity in MgB₂" IJMPB **16**, Nos. 11 & 12 (2002) 1613-1617.
- 16.1. **Title:** Electronic structure, electron-phonon coupling, and multiband effects in MgB₂
By: Mazin, II; Antropov, VP
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 385 **Issue:** 1-2 **Pages:** 49-65 **Article Number:** PII S0921-4534(02)02299-2 **Published:** MAR 1 2003
- 16.2. **Title:** Band structure and properties of superconducting MgB₂ and related compounds (a review)
By: Ivanovskii, AL
Source: PHYSICS OF THE SOLID STATE **Volume:** 45 **Issue:** 10 **Pages:** 1829-1859 **Published:** 2003
- 16.3. **Title:** Ginzburg-Landau theory for two-band s-wave superconductors: application to non-magnetic borocarbides LuNi₂B₂C, YNi₂B₂C and magnesium diboride MgB₂
By: Askerzade, IN
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 397 **Issue:** 3-4 **Pages:** 99-111 **Published:** OCT 15 2003
- 16.4. **Title:** Surface critical magnetic field H_{c3}(T) of a bulk superconductor MgB₂ using two-band Ginzburg-Landau theory
By: Askerzade, IN
Source: PRAMANA-JOURNAL OF PHYSICS **Volume:** 61 **Issue:** 3 **Pages:** 611-616 **Published:** SEP 2003
- 16.5. **Title:** Ginzburg-Landau theory for two-band isotropic s-wave superconductors
By: Askerzade, IN
Source: INTERNATIONAL JOURNAL OF MODERN PHYSICS B **Volume:** 17 **Issue:** 16 **Pages:** 3001-3020 **Published:** JUN 30 2003
17. A. Lascialfari, T. Mishonov, A. Rigamonti, P. Tedesco, and A. Varlamov, "Superconducting Diamagnetic Fluctuations in MgB₂", cond-mat/0109404, Phys. Rev. B **65**, 180501 (R) (2002).
- 17.1. **Title:** Precursor diamagnetism above the superconducting transition in La_{1.9}Sr_{0.1}CuO₄
By: Lascialfari, A; Rigamonti, A; Romano', L; et al.
Source: PHYSICAL REVIEW B **Volume:** 68 **Issue:** 10 **Article Number:** 100505 **Published:** SEP 1 2003
- 17.2. **Title:** Origin of superconductivity transition broadening in MgB₂
By: Masui, T; Lee, S; Tajima, S
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 383 **Issue:** 4 **Pages:** 299-305 **Article Number:** PII S0921-4534(02)02049-X **Published:** JAN 1 2003
- 17.3. **Title:** Zero-dimensional superconducting fluctuations and fluctuating diamagnetism in lead nanoparticles
By: Bernardi, E.; Lascialfari, A.; Rigamonti, A.; et al.
Source: PHYSICAL REVIEW B **Volume:** 74 **Issue:** 13 **Article Number:** 134509 **Published:** OCT 2006
- 17.4. **Title:** Superconducting diamagnetic fluctuations in Sm-based underdoped cuprates studied via SQUID magnetometry
By: Bernardi, E.; Lascialfari, A.; Rigamonti, A.; et al.
Source: PHYSICAL REVIEW B **Volume:** 81 **Issue:** 6 **Article Number:** 064502 **Published:** FEB 2010
- 17.5. **Title:** Superconducting phase fluctuations in SmFeAsO_{0.8}F_{0.2} from diamagnetism at a low magnetic field above T_c
By: Prando, G.; Lascialfari, A.; Rigamonti, A.; et al.
Source: PHYSICAL REVIEW B **Volume:** 84 **Issue:** 6 **Article Number:** 064507 **Published:** AUG 18 2011



- 17.6. **Title:** Two-band effect on the superconducting fluctuating diamagnetism in MgB₂
By: Romano, L.; Lascialfari, A.; Rigamonti, A.; et al.
Source: PHYSICAL REVIEW LETTERS **Volume:** 94 **Issue:** 24 **Article Number:** 247001 **Published:** JUN 24 2005
- 17.7. **Title:** Diamagnetism, Nernst signal, and finite-size effects in superconductors above the transition temperature T_c
By: Schneider, T.; Weyeneth, S.
Source: PHYSICAL REVIEW B **Volume:** 83 **Issue:** 14 **Article Number:** 144527 **Published:** APR 28 2011
- 17.8. **Title:** Superconducting fluctuating diamagnetism in neutron irradiated MgB₂ in relation to precursor diamagnetism in Al-doped MgB₂
By: Bernardi, E.; Lascialfari, A.; Rigamonti, A.; et al.
Source: PHYSICAL REVIEW B **Volume:** 77 **Issue:** 6 **Article Number:** 064502 **Published:** FEB 2008
- 17.9. **Title:** Electrosynthesis of lead nanoparticles on template free gold surface by potentiostatic triple pulse technique
By: Guin, Saurav K.; Sharma, H. S.; Aggarwal, Suresh K.
Source: ELECTROCHIMICA ACTA **Volume:** 55 **Issue:** 3 **Pages:** 1245-1257 **Published:** JAN 1 2010
- 17.10. **Title:** Probing superconductivity in MgB₂ confined to magnetic field tuned cylinders by means of critical fluctuations
By: Weyeneth, S.; Schneider, T.; Zhigadlo, N. D.; et al.
Source: JOURNAL OF PHYSICS-CONDENSED MATTER **Volume:** 20 **Issue:** 13 **Article Number:** 135208 **Published:** APR 2 2008
- 17.11. **Title:** Superconducting fluctuating diamagnetism versus precursor diamagnetism in heterogeneous superconductors
By: Rigamonti, A.; Lascialfari, A.; Romano, L.; et al.
Conference: International Conference on Nanoscale Heterogeneity and Quantum Phenomena in Complex Matter
Location: Rome, ITALY **Date:** SEP 26-OCT 01, 2004
Source: JOURNAL OF SUPERCONDUCTIVITY **Volume:** 18 **Issue:** 5-6 **Pages:** 763-767 **Published:** NOV 2005
- 17.12. **Title:** Strong thermal fluctuations in cuprate superconductors in magnetic fields above T_c
By: Jiang, Xujiang; Li, Dingping; Rosenstein, Baruch
Source: PHYSICAL REVIEW B **Volume:** 89 **Issue:** 6 **Article Number:** 064507 **Published:** FEB 18 2014
- 17.13. **Title:** Phases, phase transitions and spin dynamics in strongly correlated electron systems, from antiferromagnets to HTc superconductors: NMR-NQR insights
By: Rigamonti, A.; Tedoldi, F.
Edited by: Carretta, P.; Lascialfari, A.
Conference: Training School on NMR-MRI, mu-SR and Mossbauer Techniques **Location:** Pavia, ITALY **Date:** SEP 17-30, 2006
Source: NMR-MRI, mu-SR and Mossbauer Spectroscopies in Molecular Magnets **Pages:** 111-145 **Published:** 2007
18. V. D. Servedio, S.-L. Drechsler, and T. Mishonov, "Surface states and their possible role in the superconductivity of MgB₂", cond-mat/0111434, Phys. Rev. B (R) **66**, 140502 (2002).
- 18.1. **Title:** Electronic structure of Mg: From monolayers to bulk
By: Schiller, F.; Heber, M.; Servedio, VDP; et al.
Source: PHYSICAL REVIEW B **Volume:** 70 **Issue:** 12 **Article Number:** 125106 **Published:** SEP 2004
- 18.2. **Title:** Surface contribution to the superconducting properties of MgB₂ single crystals
By: Rydh, A.; Welp, U.; Hiller, JM; et al.
Source: PHYSICAL REVIEW B **Volume:** 68 **Issue:** 17 **Article Number:** 172502 **Published:** NOV 2003
- 18.3. **Title:** Ginzburg-Landau theory: the case of two-band superconductors
By: Askerzade, I. N.
Source: PHYSICS-USPEKHI **Volume:** 49 **Issue:** 10 **Pages:** 1003-1016 **Published:** OCT 2006
- 18.4. **Title:** Electronic structure and anisotropic superconductivity in diborides and borocarbides
By: Drechsler, SL; Rosner, H; Opahle, I; et al.
Conference: 7th International Conference on Materials and Mechanisms of Superconductive and High Temperature Superconductors **Location:** Rio de Janeiro, BRAZIL **Date:** MAY 25-30, 2003
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 408 **Pages:** 104-106 **Published:** AUG 2004
- 18.5. **Title:** Multiple-gap features from break-junction tunneling in the superconducting MgB₂
By: Takasaki, T; Ekino, T; Muranaka, T; et al.
Source: JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN **Volume:** 73 **Issue:** 7 **Pages:** 1902-1913 **Published:** JUL 2004
- 18.6. **Title:** Fermi surface of novel borides: MgB₂ and CaB₆
By: Souma, S.; Takahashi, T.



- Source:** JOURNAL OF PHYSICS-CONDENSED MATTER **Volume:** 19 **Issue:** 35 **Article Number:** 355003 **Published:** SEP 5 2007
- 18.7. **Title:** Recent photoemission studies on MgB₂ and related materials
By: Tsuda, Shunsuke; Yokoya, Takayoshi; Shin, Shik
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 456 **Issue:** 1-2 **Pages:** 126-133 **Published:** JUN 1 2007
- 18.8. **Title:** Photoemission studies in MgB₂
By: Uchiyama, H; Tajima, S; Shen, KM; et al.
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 385 **Issue:** 1-2 **Pages:** 85-90 **Article Number:** PII S0921-4534(02)02294-3 **Published:** MAR 1 2003
- 18.9. **Title:** Tuning MgB₂(0001) surface states through surface termination
By: Despoja, V.; Mowbray, D. J.; Silkin, V. M.
Source: PHYSICAL REVIEW B **Volume:** 84 **Issue:** 10 **Article Number:** 104514 **Published:** SEP 12 2011
- 18.10. **Title:** Conventional electronic structure of MgB₂ and ZrB₂: LDA vs. de Haas-v. Alphen & ARPES data
By: Drechsler, SL; Rosner, H; An, JM; et al.
Source: JOURNAL OF LOW TEMPERATURE PHYSICS **Volume:** 131 **Issue:** 5-6 **Pages:** 1175-1180 **Published:** JUN 2003
- 18.11. **Title:** Electronic band structure of AIB₂ studied by angle-resolved photoemission spectroscopy
By: Souma, S; Sato, T; Takahashi, T; et al.
Conference: 14th International Conference on Vacuum Ultraviolet Radiation Physics **Location:** Cairns, AUSTRALIA **Date:** JUL 19-23, 2004
Source: JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA **Volume:** 144 **Special Issue:** SI **Pages:** 545-547 **Published:** JUN 2005
- 18.12. **Title:** Ginzburg-Landau equations for two-band superconductors: Application to MgB₂, LuNi₂B₂C and YNi₂B₂C
By: Askerzade, IN
Source: PHYSICA SCRIPTA **Volume:** 69 **Issue:** 3 **Pages:** 234-243 **Published:** MAR 2004
19. T. M. Mishonov, N. Chéenne, D. Robbes and J. O. Indekeu, "Generation of 3rd and 5th harmonics in a thin superconducting film by temperature oscillations and isothermal nonlinear current response", cond-mat/0109478, Eur. Phys. J. B **26**, 291-296 (2002).
- 19.1. **Title:** Higher harmonics of ac voltage response in narrow strips of YBa₂Cu₃O₇ thin films: evidence for strong thermal fluctuations
By: Ossandon, JG; Sergeenkov, S; Esquinazi, P; et al.
Source: SUPERCONDUCTOR SCIENCE & TECHNOLOGY **Volume:** 18 **Issue:** 3 **Pages:** 325-329 **Published:** MAR 2005
- 19.2. **Title:** Non-linear response of ac conductivity in narrow YBCO film strips at the superconducting transition
By: Ossandon, J. G.; Giordano, J. L.; Esquinazi, P.; et al.
Edited by: Weber, HW; Sauerzopf, FM
Conference: 7th European Conference on Applied Superconductivity **Location:** Vienna Univ Technol, Vienna, AUSTRIA **Date:** SEP 11-15, 2005
Source: 7TH EUROPEAN CONFERENCE ON APPLIED SUPERCONDUCTIVITY (EUCAS'05) **Book Series:** Journal of Physics Conference Series **Volume:** 43 **Pages:** 655-658 **Published:** 2006
- 19.3. **Title:** Contactless measurement of nonlinear conductivity in the radio-frequency range
By: Doslic, Marija; Pelc, Damjan; Pozek, Miroslav
Source: REVIEW OF SCIENTIFIC INSTRUMENTS **Volume:** 85 **Issue:** 7 **Article Number:** 073905 **Published:** JUL 2014
20. T. Mishonov, A. Posazhennikova, J. Indekeu, "Fluctuation conductivity in superconductors in strong electric fields", cond-mat/0106168, Phys. Rev. B **65**, 064519 (2002).
- 20.1. **Title:** Critical fluctuation conductivity in layered superconductors in a strong electric field
By: Puica, I; Lang, W
Source: PHYSICAL REVIEW B **Volume:** 68 **Issue:** 5 **Article Number:** 054517 **Published:** AUG 1 2003
- 20.2. **Title:** Depairing current and superconducting transition of YBCO at intense pulsed currents
By: Lang, W; Puica, I; Peruzzi, M; et al.
Edited by: Stutzmann, M
Conference: NATO Advanced Research Workshop on Advanced Materials for Radiation Detectors and Sensors/Symposium on Superconductors held at the 2004 E-MRS Fall Meeting **Location:** Warsaw, POLAND **Date:** SEP 06-10, 2004 **Sponsor(s):** NATO; European Mat Res Soc
Source: Physica Status Solidi C - Conferences and Critical Reviews, Vol 2, No 5 **Book Series:** PHYSICA STATUS SOLIDI C-CURRENT TOPICS IN SOLID STATE PHYSICS **Volume:** 2 **Issue:** 5 **Pages:** 1615-1624 **Published:** 2005



- 20.3. **Title:** Standard manufacture and properties of arrays of Pb and Sn nanowires
By: Michotte, S
Source: INTERNATIONAL JOURNAL OF MODERN PHYSICS B **Volume:** 17 **Issue:** 26 **Pages:** 4601-4618 **Published:** OCT 20 2003
- 20.4. **Title:** Electrical conductivity beyond a linear response in layered superconductors under a magnetic field
By: Tinh, Bui Duc; Li, Dingping; Rosenstein, Baruch
Source: PHYSICAL REVIEW B **Volume:** 81 **Issue:** 22 **Article Number:** 224521 **Published:** JUN 29 2010
- 20.5. **Title:** Fluctuation conductivity in disordered superconducting films
By: Tikhonov, Konstantin S.; Schwiete, Georg; Finkel'stein, Alexander M.
Source: PHYSICAL REVIEW B **Volume:** 85 **Issue:** 17 **Article Number:** 174527 **Published:** MAY 25 2012
- 20.6. **Title:** Phase-sensitive harmonic measurements of microwave nonlinearities in cuprate thin films
By: Mircea, Dragos I.; Xu, Hua; Anlage, Steven M.
Source: PHYSICAL REVIEW B **Volume:** 80 **Issue:** 14 **Article Number:** 144505 **Published:** OCT 2009
- 20.7. **Title:** Non-Ohmic critical fluctuation Hall conductivity of layered superconductors in strong electric fields
By: Puica, I; Lang, W
Source: PHYSICAL REVIEW B **Volume:** 70 **Issue:** 9 **Article Number:** 092507 **Published:** SEP 2004
- 20.8. **Title:** Non-Ohmic critical fluctuation conductivity of layered superconductors in a magnetic field
By: Puica, I; Lang, W
Source: PHYSICAL REVIEW B **Volume:** 68 **Issue:** 21 **Article Number:** 212503 **Published:** DEC 2003
- 20.9. **Title:** Magnetoresistance studies of La₂/3Sr₁/3MnO₃-YBa₂Cu₃O₇-La₂/3Sr₁/3MnO₃ trilayers with ferromagnetic coupling along the nodal direction of YBa₂Cu₃O₇
By: Mandal, Soumen
Source: PHYSICAL REVIEW B **Volume:** 81 **Issue:** 1 **Article Number:** 014515 **Published:** JAN 2010
- 20.10. **Title:** Non-Ohmic Hall resistivity observed above the critical temperature in the high-temperature superconductor YBa₂Cu₃O₇-delta
By: Puica, I.; Lang, W.; Siraj, K.; et al.
Source: PHYSICAL REVIEW B **Volume:** 79 **Issue:** 9 **Article Number:** 094522 **Published:** MAR 2009
- 20.11. **Title:** Current dependent fluctuations in a Bi₂Sr₂CuO₆+delta thin film
By: Sfar, I; Li, ZZ; Bouquet, F; et al.
Source: EUROPEAN PHYSICAL JOURNAL B **Volume:** 46 **Issue:** 2 **Pages:** 215-221 **Published:** JUL 2005
- 20.12. **Title:** Inhomogeneous superconductivity in organic conductors: the role of disorder and magnetic field
By: Haddad, S.; Charfi-Kaddour, S.; Pouget, J-P
Source: JOURNAL OF PHYSICS-CONDENSED MATTER **Volume:** 23 **Issue:** 46 **Article Number:** 464205 **Published:** NOV 23 2011
- 20.13. **Title:** Dissipative and nonequilibrium effects near a superconductor-metal quantum critical point
By: Mitra, Aditi
Source: PHYSICAL REVIEW B **Volume:** 78 **Issue:** 21 **Article Number:** 214512 **Published:** DEC 2008
- 20.14. **Title:** Out-of-plane fluctuation conductivity of layered superconductors in strong electric fields
By: Puica, I; Lang, W
Source: PHYSICAL REVIEW B **Volume:** 73 **Issue:** 2 **Article Number:** 024502 **Published:** JAN 2006
- 20.15. **Title:** Higher harmonics of ac voltage response in narrow strips of YBa₂Cu₃O₇ thin films: evidence for strong thermal fluctuations
By: Ossandon, JG; Sergeenkov, S; Esquinazi, P; et al.
Source: SUPERCONDUCTOR SCIENCE & TECHNOLOGY **Volume:** 18 **Issue:** 3 **Pages:** 325-329 **Published:** MAR 2005
- 20.16. **Title:** Non-linear response of ac conductivity in narrow YBCO film strips at the superconducting transition
By: Ossandon, J. G.; Giordano, J. L.; Esquinazi, P.; et al.
Edited by: Weber, HW; Sauerzopf, FM
Conference: 7th European Conference on Applied Superconductivity **Location:** Vienna Univ Technol, Vienna, AUSTRIA
Date: SEP 11-15, 2005
Source: 7TH EUROPEAN CONFERENCE ON APPLIED SUPERCONDUCTIVITY (EUCAS'05) **Book Series:** Journal of Physics Conference Series **Volume:** 43 **Pages:** 655-658 **Published:** 2006
- 20.17. **Title:** Microwave fluctuational conductivity in YBa₂Cu₃O₇-delta
By: Silva, E; Marcon, R; Sarti, S; et al.
Source: EUROPEAN PHYSICAL JOURNAL B **Volume:** 37 **Issue:** 3 **Pages:** 277-284 **Published:** FEB 2004
- 20.18. **Title:** Electric-field dependence of pairing temperature and tunneling in high-temperature superconductors
By: Morawetz, K
Source: PHYSICAL REVIEW B **Volume:** 66 **Issue:** 17 **Article Number:** 172508 **Published:** NOV 1 2002



- 20.19. **Title:** Non-ohmic Electrical Transport Properties Above the Critical Temperature in Optimally and Underdoped Superconducting $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$
By: Lang, W.; Puica, I.; Zechner, G.; et al.
Source: JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM **Volume:** 25 **Issue:** 5 **Pages:** 1361-1364 **Published:** JUL 2012
- 20.20. **Title:** Fluctuation Hall Conductivity Beyond Linear Response in Layered Superconductors Under a Magnetic Field
By: Bui Duc Tinh; Le Minh Thu; Le Viet Hoa; et al.
Source: JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM **Volume:** 27 **Issue:** 2 **Pages:** 359-363 **Published:** FEB 2014
- 20.21. **Title:** Drag effect and Cooper electron-hole pair fluctuations in a topological insulator film
By: Efimkin, D. K.; Lozovik, Yu. E.
Source: PHYSICAL REVIEW B **Volume:** 88 **Issue:** 23 **Article Number:** 235420 **Published:** DEC 17 2013
- 20.22. **Title:** Excess conductivity in high-T-c superconducting thin films: Role of smooth doping disorder
By: Seto, R; Botet, R; Kuratsuji, H
Source: PHYSICAL REVIEW B **Volume:** 73 **Issue:** 1 **Article Number:** 012508 **Published:** JAN 2006
21. T.M. Mishonov and E.S. Penev, "Thermodynamics of Gaussian fluctuations and paraconductivity in layered superconductors", cond-mat/0004023, Int. J. Mod. Physics B, Vol. 14, No.32 (2000) 3831-3879 (review article).
- 21.1. **Title:** Anomalous doping dependence of fluctuation-induced diamagnetism in $\text{Y}_{1-x}\text{Ca}_x\text{Ba}_2\text{Cu}_3\text{O}_y$ superconductors
By: Lascialfari, A; Rigamonti, A; Romano', L; et al.
Source: PHYSICAL REVIEW B **Volume:** 65 **Issue:** 14 **Article Number:** 144523 **Published:** APR 1 2002
- 21.2. **Title:** Precursor diamagnetism above the superconducting transition in $\text{La}_{1.9}\text{Sr}_{0.1}\text{CuO}_4$
By: Lascialfari, A; Rigamonti, A; Romano', L; et al.
Source: PHYSICAL REVIEW B **Volume:** 68 **Issue:** 10 **Article Number:** 100505 **Published:** SEP 1 2003
- 21.3. **Title:** Critical fluctuation conductivity in layered superconductors in a strong electric field
By: Puica, I; Lang, W
Source: PHYSICAL REVIEW B **Volume:** 68 **Issue:** 5 **Article Number:** 054517 **Published:** AUG 1 2003
- 21.4. **Title:** Zero-dimensional superconducting fluctuations and fluctuating diamagnetism in lead nanoparticles
By: Bernardi, E.; Lascialfari, A.; Rigamonti, A.; et al.
Source: PHYSICAL REVIEW B **Volume:** 74 **Issue:** 13 **Article Number:** 134509 **Published:** OCT 2006
- 21.5. **Title:** Superconducting diamagnetic fluctuations in Sm-based underdoped cuprates studied via SQUID magnetometry
By: Bernardi, E.; Lascialfari, A.; Rigamonti, A.; et al.
Source: PHYSICAL REVIEW B **Volume:** 81 **Issue:** 6 **Article Number:** 064502 **Published:** FEB 2010
- 21.6. **Title:** Depairing current and superconducting transition of YBCO at intense pulsed currents
By: Lang, W; Puica, I; Peruzzi, M; et al.
Edited by: Stutzmann, M
Conference: NATO Advanced Research Workshop on Advanced Materials for Radiation Detectors and Sensors/Symposium on Superconductors held at the 2004 E-MRS Fall Meeting **Location:** Warsaw, POLAND **Date:** SEP 06-10, 2004 **Sponsor(s):** NATO; European Mat Res Soc
Source: Physica Status Solidi C - Conferences and Critical Reviews, Vol 2, No 5 **Book Series:** PHYSICA STATUS SOLIDI C-CURRENT TOPICS IN SOLID STATE PHYSICS **Volume:** 2 **Issue:** 5 **Pages:** 1615-1624 **Published:** 2005
- 21.7. **Title:** Superconducting phase fluctuations in $\text{SmFeAsO}_{0.8}\text{F}_{0.2}$ from diamagnetism at a low magnetic field above T-c
By: Prando, G.; Lascialfari, A.; Rigamonti, A.; et al.
Source: PHYSICAL REVIEW B **Volume:** 84 **Issue:** 6 **Article Number:** 064507 **Published:** AUG 18 2011
- 21.8. **Title:** Electrical conductivity beyond a linear response in layered superconductors under a magnetic field
By: Tinh, Bui Duc; Li, Dingping; Rosenstein, Baruch
Source: PHYSICAL REVIEW B **Volume:** 81 **Issue:** 22 **Article Number:** 224521 **Published:** JUN 29 2010
- 21.9. **Title:** Frequency-dependent fluctuational conductivity above T-c in anisotropic superconductors: effects of a short wavelength cutoff
By: Silva, E
Source: EUROPEAN PHYSICAL JOURNAL B **Volume:** 27 **Issue:** 4 **Pages:** 497-504 **Published:** JUN 2002
- 21.10. **Title:** Non-Ohmic critical fluctuation Hall conductivity of layered superconductors in strong electric fields
By: Puica, I; Lang, W
Source: PHYSICAL REVIEW B **Volume:** 70 **Issue:** 9 **Article Number:** 092507 **Published:** SEP 2004
- 21.11. **Title:** High electric field study of the superconducting transition of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$
By: Puica, I; Lang, W; Peruzzi, M; et al.
Conference: International Cryogenic Materials Conference **Location:** Univ Wollongong, Wollongong, AUSTRALIA **Date:** FEB 10-13, 2004



- Source:** SUPERCONDUCTOR SCIENCE & TECHNOLOGY **Volume:** 17 **Issue:** 9 **Pages:** S543-S547 **Article Number:** PII S0953-2048(04)77275-9 **Published:** SEP 2004
- 21.12. **Title:** Non-Ohmic critical fluctuation conductivity of layered superconductors in a magnetic field
By: Puica, I; Lang, W
Source: PHYSICAL REVIEW B **Volume:** 68 **Issue:** 21 **Article Number:** 212503 **Published:** DEC 2003
- 21.13. **Title:** Extended paraconductivity regime in underdoped cuprates
By: Caprara, S; Grilli, M; Leridon, B; et al.
Source: PHYSICAL REVIEW B **Volume:** 72 **Issue:** 10 **Article Number:** 104509 **Published:** SEP 2005
- 21.14. **Title:** Angle dependence of the Hall effect in HgBa₂CaCu₂O₆ thin films
By: Richter, H.; Puica, I.; Lang, W.; et al.
Source: PHYSICAL REVIEW B **Volume:** 73 **Issue:** 18 **Article Number:** 184506 **Published:** MAY 2006
- 21.15. **Title:** Out-of-plane fluctuation conductivity of layered superconductors in strong electric fields
By: Puica, I; Lang, W
Source: PHYSICAL REVIEW B **Volume:** 73 **Issue:** 2 **Article Number:** 024502 **Published:** JAN 2006
- 21.16. **Title:** Microwave fluctuational conductivity in YBa₂Cu₃O₇-delta
By: Silva, E; Marcon, R; Sarti, S; et al.
Source: EUROPEAN PHYSICAL JOURNAL B **Volume:** 37 **Issue:** 3 **Pages:** 277-284 **Published:** FEB 2004
- 21.17. **Title:** Temperature dependence of the microwave conductivity of a YBCuO film in the normal state
By: Gubin, A. I.; Cherpak, N. T.; Lavrinovich, A. A.; et al.
Source: LOW TEMPERATURE PHYSICS **Volume:** 33 **Issue:** 10 **Pages:** 818-820 **Published:** OCT 2007
- 21.18. **Title:** High-frequency fluctuational conductivity in YBa₂Cu₃O₇-delta
By: Silva, E; Marcon, R; Fastampa, R; et al.
Source: JOURNAL OF LOW TEMPERATURE PHYSICS **Volume:** 131 **Issue:** 5-6 **Pages:** 831-835 **Published:** JUN 2003
- 21.19. **Title:** DC and microwave fluctuational conductivity of anisotropic superconductors
By: Silva, E; Marcon, R; Fastampa, R; et al.
Conference: 23rd International Conference on Low Temperature Physics (LT23) **Location:** HIROSHIMA, JAPAN **Date:** AUG 20-27, 2002 **Sponsor(s):** Int Union Pure & Appl Phys; Sci Council Japan; Phys Soc Japan; Japan Soc Appl Phys; Cryogen Assoc Japan
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 388 **Pages:** 149-150 **Published:** MAY 2003
22. T.M. Mishonov and E.S. Penev, "Tight-binding modelling of band structure of layered superconducting perovskites", cond-mat/0001049, J. Phys.: Condens. Matter **12**, No. 2 (2000) 143-159.
- 22.1. **Title:** The superconductivity of Sr₂RuO₄ and the physics of spin-triplet pairing
By: Mackenzie, AP; Maeno, Y
Source: REVIEWS OF MODERN PHYSICS **Volume:** 75 **Issue:** 2 **Pages:** 657-712 **Published:** APR 2003
- 22.2. **Title:** Metal-insulator transition in layered cuprates (SDW model)
By: Abrikosov, AA
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 391 **Issue:** 2 **Pages:** 147-159 **Published:** AUG 15 2003
- 22.3. **Title:** Pressure dependence of superconducting and magnetic critical temperatures in the ruthenocuprates
By: Citro, R; Angilella, GGN; Marinaro, M; et al.
Source: PHYSICAL REVIEW B **Volume:** 71 **Issue:** 13 **Article Number:** 134525 **Published:** APR 2005
- 22.4. **Title:** Dominance of many-body effects over the one-electron mechanism for band structure doping dependence in Nd_{2-x}Ce_xCuO₄: the LDA + GTB approach
By: Korshunov, M. M.; Gavrichkov, V. A.; Ovchinnikov, S. G.; et al.
Source: JOURNAL OF PHYSICS-CONDENSED MATTER **Volume:** 19 **Issue:** 48 **Article Number:** 486203 **Published:** DEC 5 2007
- 22.5. **Title:** Renormalized band structure of Sr₂RuO₄: A quasiparticle tight-binding approach
By: Zabolotnyy, V. B.; Evtushinsky, D. V.; Kordyuk, A. A.; et al.
Source: JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA **Volume:** 191 **Pages:** 48-53 **Published:** DEC 2013
- 22.6. **Title:** The effect of superstructural ordering on the properties of high-temperature oxide superconductor systems
By: Anshukova, NV; Golovashkin, AI; Ivanova, LI; et al.
Source: JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS **Volume:** 96 **Issue:** 6 **Pages:** 1045-1054 **Published:** 2003



- 22.7. **Title:** Study of the Electronic Structure of the Unconventional Superconductor Sr(2)RuO(4) by the Embedded Cluster Method
By: Kaplan, Ilya G.; Soullard, Jacques
Edited by: Wilson, S; Grout, PJ; Maruani, J; et al.
Conference: 12th European Workshop on Quantum Systems in Chemistry and Physics **Location:** Univ London, Royal Holloway Coll, London, ENGLAND **Date:** AUG 30-SEP 05, 2007
Source: FRONTIERS IN QUANTUM SYSTEMS IN CHEMISTRY AND PHYSICS **Book Series:** Progress in Theoretical Chemistry and Physics **Volume:** 18 **Pages:** 33-48 **Published:** 2008
- 22.8. **Title:** Electronic structure of the pure and Ti-doped Sr(2)RuO(4) superconductor obtained by the embedded cluster method
By: Kaplan, Ilya G.; Soullard, Jacques
Source: PHYSICAL REVIEW B **Volume:** 76 **Issue:** 17 **Article Number:** 174505 **Published:** NOV 2007
- 22.9. **Title:** Mechanism for enhancement of superconductivity in multi-band systems with odd parity hybridization
By: Continentino, M. A.; Padilha, Igor T.; Caldas, Heron
Source: JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT **Article Number:** P07015 **Published:** JUL 2014
- 22.10. **Title:** Superstructural ordering and electronic-density modulation in oxide HTSC systems
By: Anshukova, NV; Golovashkin, AI; Ivanova, LI; et al.
Source: PHYSICS OF THE SOLID STATE **Volume:** 44 **Issue:** 5 **Pages:** 799-803 **Published:** 2002
23. A. Losev, S. Vlaev and T. Mishonov, "Local density of states for solids in an electric field", Phys. Status Solidi B **220**, 747-752 (2000).
- 23.1. **Title:** The convolution method for calculations of local densities of states
By: Losev, A
Source: JOURNAL OF PHYSICS-CONDENSED MATTER **Volume:** 15 **Issue:** 6 **Pages:** 1007-1014 **Article Number:** PII S0953-8984(03)55452-2 **Published:** FEB 19 2003
- 23.2. **Title:** Modelling electronic spectra of crystals in electric fields with various orientations
By: Losev, A; Vlaev, S
Source: PHYSICA STATUS SOLIDI B-BASIC RESEARCH **Volume:** 223 **Issue:** 3 **Pages:** 627-634 **Published:** FEB 2001
24. A. Losev, S. Vlaev and T. Mishonov, "A convolution technique for calculation of local densities of states", J. Phys.: Condens. Matter **11** (1999) 7501-7505.
- 24.1. **Title:** Closed-form Green functions, surface effects, and the importance of dimensionality in tight-binding metals
By: Reuter, Matthew G.
Source: JOURNAL OF CHEMICAL PHYSICS **Volume:** 133 **Issue:** 3 **Article Number:** 034703 **Published:** JUL 21 2010
- 24.2. **Title:** The convolution method for calculations of local densities of states
By: Losev, A
Source: JOURNAL OF PHYSICS-CONDENSED MATTER **Volume:** 15 **Issue:** 6 **Pages:** 1007-1014 **Article Number:** PII S0953-8984(03)55452-2 **Published:** FEB 19 2003
- 24.3. **Title:** Modelling electronic spectra of crystals in electric fields with various orientations
By: Losev, A; Vlaev, S
Source: PHYSICA STATUS SOLIDI B-BASIC RESEARCH **Volume:** 223 **Issue:** 3 **Pages:** 627-634 **Published:** FEB 2001
- 24.4. **Title:** Local densities of states for some embedded structures
By: Losev, A
Source: JOURNAL OF PHYSICS-CONDENSED MATTER **Volume:** 16 **Issue:** 4 **Pages:** 605-611 **Article Number:** PII S0953-8984(04)71662-8 **Published:** FEB 4 2004
25. M.V. Ramallo, C. Carballeira, J. Vina, J.A. Veira, T. Mishonov, D. Pavuna and F. Vidal, "Relaxation time of the Cooper pairs near T_c in cuprate superconductors", Europhys. Lett., **48** (1), (1999) 79-85.
- 25.1. **Title:** In-plane paraconductivity in La_{2-x}Sr_xCuO₄ thin film superconductors at high reduced temperatures: Independence of the normal-state pseudogap
By: Curras, SR; Ferro, G; Gonzalez, MT; et al.
Source: PHYSICAL REVIEW B **Volume:** 68 **Issue:** 9 **Article Number:** 094501 **Published:** SEP 1 2003
- 25.2. **Title:** Measurements of the doping effects on the in-plane paraconductivity in cuprate superconductors
By: Vidal, F; Ramallo, MV; Ferro, G; et al.
Edited by: Ashkenazi, J; Eremin, MV; Cohn, JL; et al.
Conference: NATO Advanced Research Workshop on New Challenges in Superconductivity **Location:** Miami, FL **Date:** JAN 11-FEB 14, 2004 **Sponsor(s):** NATO
Source: New Challenges in Superconductivity: Experimental Advances and Emerging Theories **Book Series:** NATO



- SCIENCE SERIES, SERIES II: MATHEMATICS, PHYSICS AND CHEMISTRY **Volume:** 183 **Pages:** 85-90 **Published:** 2005
- 25.3. **Title:** On the energy saved by interlayer interactions in the superconducting state of cuprates
By: Ramallo, MV
Source: EUROPHYSICS LETTERS **Volume:** 65 **Issue:** 2 **Pages:** 249-255 **Published:** JAN 2004
- 25.4. **Title:** Some experimental aspects of the thermal fluctuations around T-c in cuprate superconductors: application to the "vortex matter"
By: Vidal, F; Torron, C; Vina, J; et al.
Conference: 1st Euroconference on Vortex Matter in Superconductors at Extreme Scales and Conditions **Location:** IRAKLION, GREECE **Date:** SEP 18-24, 1999 **Sponsor(s):** VORTEX; ESF
Source: PHYSICA C **Volume:** 332 **Issue:** 1-4 **Pages:** 166-172 **Published:** MAY 2000
- 25.5. **Title:** Paraconductivity in layered cuprates behaves as if due to pairing of nearly free quasiparticles
By: Caprara, S.; Grilli, M.; Leridon, B.; et al.
Source: PHYSICAL REVIEW B **Volume:** 79 **Issue:** 2 **Article Number:** 024506 **Published:** JAN 2009
- 25.6. **Title:** Microwave fluctuational conductivity in YBa₂Cu₃O₇-delta
By: Silva, E; Marcon, R; Sarti, S; et al.
Source: EUROPEAN PHYSICAL JOURNAL B **Volume:** 37 **Issue:** 3 **Pages:** 277-284 **Published:** FEB 2004
26. T.M. Mishonov, I.N. Genchev, R.K. Koleva, and E.S. Penev, "Influence of the orthorhombic distortion on the van Hove singularities in the DOS and ARPES spectra of layered cuprates", Superlattices and Microstructures Vol. **24**, No. 5 (1998) 381-384, Article No. sm960483.
- 26.1. **Title:** Ruddlesden-Popper phases as thermoelectric oxides: Nb-doped SrO(SrTiO₃)(n) (n=1,2)
By: Lee, Kyu Hyoung; Kim, Sung Wng; Ohta, Hiromichi; et al.
Source: JOURNAL OF APPLIED PHYSICS **Volume:** 100 **Issue:** 6 **Article Number:** 063717 **Published:** SEP 15 2006
- 26.2. **Title:** Thermoelectric properties of layered perovskite-type Nb-doped SrO(SrTiO₃)(n) (n = 1, 2) Ruddlesden-Popper phases
By: Lee, K. H.; Ohta, H.; Koumoto, K.
Conference: 25th International Conference on Thermoelectrics (ICT'06) **Location:** Vienna, AUSTRIA **Date:** AUG 06-10, 2006 **Sponsor(s):** IEEE; Int Thermoelect Soc; IEEE Components, Packaging & Mfg Technol Soc; Univ Vienna; AVL; Bank Austria Creditanstalt; Fritsch; Invensys Eurotherm; Frey Wille; Loreal Paris; Seitner; Studio Silvia Parfumerie Petri; Marriott Vienna; UNIQUA; FURNKRANZ; OMV; Hammerle
Source: ICT'06: XXV International Conference on Thermoelectrics, Proceedings **Pages:** 81-84 **Published:** 2006
27. T.M. Mishonov, I.N. Genchev, R.K. Koleva, and E.S. Penev, "LCAO analysis of Sr₂RuO₄ band structure", Proceedings of MOS'96 Conference, Karlsruhe, Germany, 2-6 Aug. 1996; J. Low Temp. Phys. Vol. **105**, Nos. 5/6, 1611-1616 (1996).
- 27.1. **Title:** Electronic states of the superconductor Sr₂RuO₄
By: Maeno, Y
Conference: International Conference on Materials and Mechanisms of Superconductivity - High Temperature Superconductors V **Location:** BEIJING, PEOPLES R CHINA **Date:** FEB 28-MAR 04, 1997 **Sponsor(s):** IChemE
Source: PHYSICA C **Volume:** 282 **Pages:** 206-209 **Part:** 1 **Published:** AUG 1997
28. D.Ch. Damianov and T.M. Mishonov, "Fluctuation paraconductivity within the framework of time-dependent Ginzburg-Landau theory", Superlattices and Microstructures Vol. **21**, No. 3, (1997) 467-470, Proceedings of 5th World Congress on Superconductivity, Budapest, Hungary, 7-11 July 1996.
- 28.1. **Title:** The role of density of states fluctuations in the normal state properties of high T-c superconductors
By: Varlamov, AA; Balestrino, G; Milani, E; et al.
Source: ADVANCES IN PHYSICS **Volume:** 48 **Issue:** 6 **Pages:** 655-783 **Published:** NOV-DEC 1999
- 28.2. **Title:** Dynamical induction of s-wave component in d-wave superconductor driven by thermal fluctuations
By: Kumagai, A; Ebisawa, H
Source: JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN **Volume:** 67 **Issue:** 10 **Pages:** 3585-3589 **Published:** OCT 1998
29. T.M. Mishonov and D.Ch. Damianov, "Kinetic equation for fluctuation Cooper pairs applied to fluctuation Hall effect in thin superconducting films", Czechoslovak Journal of Physics Vol. **46**-Suppl. Part S2 (1997) 631, Proceedings of the 21st International Conference on Low Temperature Physics, Prague, August 8-14, 1996.
- 29.1. **Title:** Vortices and domain walls: 'wormholes' in unconventional superconductors
By: Bessarab, P. F.; Radievsky, A. V.
Edited by: Goll, G; Lohneysen, HV; Loidl, A; et al.
Conference: International Conference on Magnetism (ICM 2009) **Location:** Karlsruhe, GERMANY **Date:** JUL 26-31, 2009
Source: INTERNATIONAL CONFERENCE ON MAGNETISM (ICM 2009) **Book Series:** Journal of Physics Conference Series **Volume:** 200 **Article Number:** UNSP 012013 **Published:** 2010



30. T. Mishonov, "Theory of Cooper-pair mass spectroscopy by current-induced contact potential difference", Phys. Rev. B **50**, No. 6 (1994) 4009. <http://journals.aps.org/prb/abstract/10.1103/PhysRevB.50.4009>
- 30.1. **Title:** Conductivity of normal metal with phase-coherent excitations in the presence of NS boundary
By: Chiang, YN; Shevchenko, OG
Source: LOW TEMPERATURE PHYSICS **Volume:** 25 **Issue:** 5 **Pages:** 314-326 **Published:** MAY 1999
- 30.2. **Title:** Direct measurement of the Bernoulli effect in superconductors
By: Chiang, YN; Shevchenko, OG
Conference: International Conference on Superconductivity - Physical Aspects **Location:** KHARKOV, UKRAINE **Date:** SEP 25-28, 1995
Source: FIZIKA NIZKIKH TEMPERATUR **Volume:** 22 **Issue:** 6 **Pages:** 669-671 **Published:** JUN 1996
- 30.3. **Title:** Fizeau's interferometer device in thin superconducting films
By: Buisson, O; Hollauer, G; Doria, MM
Source: EUROPHYSICS LETTERS **Volume:** 54 **Issue:** 1 **Pages:** 98-104 **Published:** APR 2001
- 30.4. **Title:** Electrostatic potential of the superconductor at critical density of transport current
By: Chiang, YN; Shevchenko, OG
Conference: 21st International Conference on Low Temperature Physics (LT 21) **Location:** PRAGUE, CZECH REPUBLIC
Date: AUG 08-14, 1996 **Sponsor(s):** Int Union Pure & Appl Phys
Source: CZECHOSLOVAK JOURNAL OF PHYSICS **Volume:** 46 **Supplement:** 2 **Pages:** 621-622 **Published:** 1996
31. T. Mishonov, "Technique for measuring the Cooper pair velocity, density and mass using Doppler splitting of plasmons in low-dimensional superconducting structures", Phys. Rev. B **50**, (1994), 4004. <http://journals.aps.org/prb/abstract/10.1103/PhysRevB.50.4004>
- 31.1. **Title:** Field dependence of c-axis plasma resonance in Josephson-coupled superconductors
By: Bulaevskii, LN; Pokrovsky, VL; Maley, MP
Source: PHYSICAL REVIEW LETTERS **Volume:** 76 **Issue:** 10 **Pages:** 1719-1722 **Published:** MAR 4 1996
- 31.2. **Title:** Collective mode and the c-axis critical current of a Josephson-coupled superconductor at high parallel magnetic fields
By: Bulaevskii, LN; Dominguez, D; Maley, MP; et al.
Source: PHYSICAL REVIEW B **Volume:** 53 **Issue:** 21 **Pages:** 14601-14610 **Published:** JUN 1 1996
- 31.3. **Title:** Josephson plasma resonance as a structural probe of vortex liquid
By: Koshelev, AE; Bulaevskii, LN; Maley, MP
Source: PHYSICAL REVIEW LETTERS **Volume:** 81 **Issue:** 4 **Pages:** 902-905 **Published:** JUL 27 1998
- 31.4. **Title:** Josephson coupling, phase correlations, and Josephson plasma resonance in vortex liquid phase
By: Koshelev, AE; Bulaevskii, LN; Maley, MP
Source: PHYSICAL REVIEW B **Volume:** 62 **Issue:** 21 **Pages:** 14403-14418 **Published:** DEC 1 2000
- 31.5. **Title:** Physical effects in layered superconductors
By: Pokrovsky, VL
Source: PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS **Volume:** 288 **Issue:** 1-6 **Pages:** 325-345 **Published:** SEP 1997
- 31.6. **Title:** ac properties of an anisotropic layered superconductor
By: Shafranuk, SE; Tachiki, M; Yamashita, T
Source: PHYSICAL REVIEW B **Volume:** 53 **Issue:** 22 **Pages:** 15136-15146 **Published:** JUN 1 1996
- 31.7. **Title:** Effect of quasiparticles on interlayer transport in highly anisotropic layered superconductors
By: Artemenko, SN; Bulaevskii, LN; Maley, MP; et al.
Source: PHYSICAL REVIEW B **Volume:** 59 **Issue:** 17 **Pages:** 11587-11595 **Published:** MAY 1 1999
- 31.8. **Title:** Effect of equilibrium fluctuations on superfluid density in layered superconductors
By: Artemenko, SN; Remizov, SV
Source: PHYSICAL REVIEW LETTERS **Volume:** 86 **Issue:** 4 **Pages:** 708-711 **Published:** JAN 22 2001
- 31.9. **Title:** Superconductivity of overdoped cuprates: the modern face of the ancestral two-electron exchange
By: Mishonov, TM; Indekeu, JO; Penev, ES
Source: JOURNAL OF PHYSICS-CONDENSED MATTER **Volume:** 15 **Issue:** 25 **Pages:** 4429-4456 **Article Number:** PII S0953-8984(03)53610-4 **Published:** JUL 2 2003
- 31.10. **Title:** Plasma waves in anisotropic superconducting films below and above the plasma frequency
By: Doria, MM; Hollauer, G; Parage, F; et al.
Source: PHYSICAL REVIEW B **Volume:** 56 **Issue:** 5 **Pages:** 2722-2731 **Published:** AUG 1 1997
- 31.11. **Title:** Plasma modes in superconducting wires: Optimized experimental configuration
By: Camarota, B; Parage, F; Wooldridge, I; et al.
Conference: International Conference on Electron Transport in Mesoscopic Systems (ETSM '99) **Location:** GOTHENBURG, SWEDEN **Date:** AUG 12-15, 1999



- Source:** JOURNAL OF LOW TEMPERATURE PHYSICS **Volume:** 118 **Issue:** 5-6 **Pages:** 589-597 **Published:** MAR 2000
- 31.12. **Title:** Effect of thermal and quantum fluctuations on superfluid density in layered superconductors
By: Artemenko, SN; Remizov, SV
Conference: International Symposium on Intrinsic Josephson Effects and Plasma Oscillation in High-Tc Superconductors
Location: SENDAI, JAPAN **Date:** AUG 22-24, 2000
Source: PHYSICA C **Volume:** 362 **Pages:** 10-15 **Published:** SEP 2001
- 31.13. **Title:** Fizeau's interferometer device in thin superconducting films
By: Buisson, O; Hollauer, G; Doria, MM
Source: EUROPHYSICS LETTERS **Volume:** 54 **Issue:** 1 **Pages:** 98-104 **Published:** APR 2001
- 31.14. **Title:** Effect of Coulomb interaction on the electron spectral density and the transverse conductivity of layered metals
By: Artemenko, SN; Remizov, SV
Source: JETP LETTERS **Volume:** 74 **Issue:** 7 **Pages:** 392-395 **Published:** 2001
- 31.15. **Title:** Non-local electrodynamics effect on surface superconductivity
By: Van Cauteren, T.; Indekeu, J. O.
Source: EPL **Volume:** 94 **Issue:** 4 **Article Number:** 46001 **Published:** MAY 2011
- 31.16. **Title:** Josephson plasma resonance as a structural probe of vortex liquid
By: Bulaevskii, L; Koshelev, AE; Maley, MP
Edited by: Bozovic, I; Pavuna, D
Conference: Conference on the Superconducting Superlattices II - Native and Artificial **Location:** SAN DIEGO, CA **Date:** JUL 20-22, 1998 **Sponsor(s):** SPIE - Int Soc Opt Engn
Source: SUPERCONDUCTING SUPERLATTICES II: NATIVE AND ARTIFICIAL **Book Series:** PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE) **Volume:** 3480 **Pages:** 170-178 **Published:** 1998
32. T. Mishonov, Comment on "Metallic and Superconducting Surfaces of YBaCuO Probed by Electrostatic Charge modulation", Phys. Rev. Lett. **67** (1991) 3195.
- 32.1. **Title:** High-T-c transistors
By: Mannhart, J
Source: SUPERCONDUCTOR SCIENCE & TECHNOLOGY **Volume:** 9 **Issue:** 2 **Pages:** 49-67 **Published:** FEB 1996
- 32.2. **Title:** INSTABILITY OF LAYERED QUANTUM LIQUIDS .3. NEW PHASE IN FERMION SUPERLATTICES
By: GOLD, A
Source: ZEITSCHRIFT FUR PHYSIK B-CONDENSED MATTER **Volume:** 94 **Issue:** 4 **Pages:** 373-385 **Published:** MAY 1994
- 32.3. **Title:** METALLIC AND SUPERCONDUCTING SURFACES OF YBA2CU3O7 PROBED BY ELECTROSTATIC CHARGE MODULATION OF EPITAXIAL - REPLY
By: FIORY, AT; HEBARD, AF; EICK, RH; et al.
Source: PHYSICAL REVIEW LETTERS **Volume:** 67 **Issue:** 22 **Pages:** 3196-3196 **Published:** NOV 25 1991
33. T. Mishonov, "Predicted Plasma Oscillations in the $Bi_2Sr_2CaCu_2O_8$ High-Temperature Superconductor", Phys. Rev. B **44** (1991) 12033.
- 33.1. **Title:** LOW-FREQUENCY MAGNETOOPTICAL PROPERTIES OF JOSEPHSON-COUPLED SUPERCONDUCTORS
By: BULAEVSKII, LN; MALEY, MP; TACHIKI, M
Source: PHYSICAL REVIEW LETTERS **Volume:** 74 **Issue:** 5 **Pages:** 801-804 **Published:** JAN 30 1995
- 33.2. **Title:** PLASMA EXCITATION BY VORTEX FLOW
By: KOYAMA, T; TACHIKI, M
Source: SOLID STATE COMMUNICATIONS **Volume:** 96 **Issue:** 6 **Pages:** 367-371 **Published:** NOV 1995
- 33.3. **Title:** Field dependence of c-axis plasma resonance in Josephson-coupled superconductors
By: Bulaevskii, LN; Pokrovsky, VL; Maley, MP
Source: PHYSICAL REVIEW LETTERS **Volume:** 76 **Issue:** 10 **Pages:** 1719-1722 **Published:** MAR 4 1996
- 33.4. **Title:** c-axis superfluid response and quasiparticle damping of underdoped Bi : 2212 and Bi : 2201
By: Gaifullin, MB; Matsuda, Y; Chikumoto, N; et al.
Source: PHYSICAL REVIEW LETTERS **Volume:** 83 **Issue:** 19 **Pages:** 3928-3931 **Published:** NOV 8 1999
- 33.5. **Title:** Collective mode and the c-axis critical current of a Josephson-coupled superconductor at high parallel magnetic fields
By: Bulaevskii, LN; Dominguez, D; Maley, MP; et al.
Source: PHYSICAL REVIEW B **Volume:** 53 **Issue:** 21 **Pages:** 14601-14610 **Published:** JUN 1 1996
- 33.6. **Title:** Terahertz Josephson plasma waves in layered superconductors: spectrum, generation, nonlinear and quantum phenomena
By: Savel'ev, Sergey; Yampol'skii, V. A.; Rakhmanov, A. L.; et al.



- Source:** REPORTS ON PROGRESS IN PHYSICS **Volume:** 73 **Issue:** 2 **Article Number:** 026501 **Published:** FEB 2010
- 33.7. **Title:** Generation of tunable terahertz out-of-plane radiation using Josephson vortices in modulated layered superconductors
By: Savel'ev, S; Yampol'skii, V; Rakhmanov, A; et al.
Source: PHYSICAL REVIEW B **Volume:** 72 **Issue:** 14 **Article Number:** 144515 **Published:** OCT 2005
- 33.8. **Title:** Mode separation of the Josephson plasma in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$
By: Kakeya, I; Kindo, K; Kadowaki, K; et al.
Source: PHYSICAL REVIEW B **Volume:** 57 **Issue:** 5 **Pages:** 3108-3115 **Published:** FEB 1 1998
- 33.9. **Title:** Josephson plasma resonance as a structural probe of vortex liquid
By: Koshelev, AE; Bulaevskii, LN; Maley, MP
Source: PHYSICAL REVIEW LETTERS **Volume:** 81 **Issue:** 4 **Pages:** 902-905 **Published:** JUL 27 1998
- 33.10. **Title:** COLLECTIVE MODES IN LAYERED SUPERCONDUCTORS
By: ARTEMENKO, SN; KOBELKOV, AG
Source: PHYSICA C **Volume:** 253 **Issue:** 3-4 **Pages:** 373-382 **Published:** NOV 1 1995
- 33.11. **Title:** Josephson coupling, phase correlations, and Josephson plasma resonance in vortex liquid phase
By: Koshelev, AE; Bulaevskii, LN; Maley, MP
Source: PHYSICAL REVIEW B **Volume:** 62 **Issue:** 21 **Pages:** 14403-14418 **Published:** DEC 1 2000
- 33.12. **Title:** Excitation of plasma oscillations during the motion of Josephson vortices in layered superconductors
By: Artemenko, SN; Remizov, SV
Source: JETP LETTERS **Volume:** 66 **Issue:** 12 **Pages:** 853-859 **Published:** DEC 25 1997
- 33.13. **Title:** Layered superconductors as nonlinear waveguides for terahertz waves
By: Savel'ev, Sergey; Yampol'skii, V. A.; Rakhmanov, A. L.; et al.
Source: PHYSICAL REVIEW B **Volume:** 75 **Issue:** 18 **Article Number:** 184503 **Published:** MAY 2007
- 33.14. **Title:** Using Josephson vortex lattices to generate, detect and control THz radiation
By: Savel'ev, Sergey; Yampol'skii, Valery; Rakhmanov, Alexander; et al.
Conference: 4th International Conference on Vortex Matter in Nanostructured Superconductors (VORTEX IV) **Location:** Iraklion, GREECE **Date:** SEP 03-09, 2005
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 437-38 **Pages:** 281-284 **Published:** MAY 15 2006
- 33.15. **Title:** Penetration of ac fields into anisotropic layered superconductors
By: Shafran'uk, SE; Tachiki, M; Yamashita, T
Source: PHYSICAL REVIEW B **Volume:** 55 **Issue:** 13 **Pages:** 8425-8429 **Published:** APR 1 1997
- 33.16. **Title:** PLASMA RESONANCE IN LAYERED NORMAL METALS AND SUPERCONDUCTORS
By: POKROVSKY, SV; POKROVSKY, VL
Source: JOURNAL OF SUPERCONDUCTIVITY **Volume:** 8 **Issue:** 1 **Pages:** 183-200 **Published:** FEB 1995
- 33.17. **Title:** ac properties of an anisotropic layered superconductor
By: Shafran'uk, SE; Tachiki, M; Yamashita, T
Source: PHYSICAL REVIEW B **Volume:** 53 **Issue:** 22 **Pages:** 15136-15146 **Published:** JUN 1 1996
- 33.18. **Title:** Resonance effects due to the excitation of surface Josephson plasma waves in layered superconductors
By: Yampol'skii, V. A.; Kats, A. V.; Nesterov, M. L.; et al.
Source: PHYSICAL REVIEW B **Volume:** 79 **Issue:** 21 **Article Number:** 214501 **Published:** JUN 2009
- 33.19. **Title:** Quantum charge dynamics in an array of intrinsic Josephson junctions
By: Koyama, T
Source: JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN **Volume:** 70 **Issue:** 7 **Pages:** 2114-2123 **Published:** JUL 2001
- 33.20. **Title:** Nonlinear electrodynamics in layered superconductors
By: Yampol'skii, V. A.; Savel'ev, Sergey; Rakhmanov, A. L.; et al.
Source: PHYSICAL REVIEW B **Volume:** 78 **Issue:** 2 **Article Number:** 024511 **Published:** JUL 2008
- 33.21. **Title:** Collective modes in two-band superconductors in the dirty limit
By: Anishchanka, A.; Volkov, A. F.; Efetov, K. B.
Source: PHYSICAL REVIEW B **Volume:** 76 **Issue:** 10 **Article Number:** 104504 **Published:** SEP 2007
- 33.22. **Title:** Effect of quasiparticles on interlayer transport in highly anisotropic layered superconductors
By: Artemenko, SN; Bulaevskii, LN; Maley, MP; et al.
Source: PHYSICAL REVIEW B **Volume:** 59 **Issue:** 17 **Pages:** 11587-11595 **Published:** MAY 1 1999
- 33.23. **Title:** Josephson plasma observed in underdoped (110) $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ films
By: Qiu, XG; Koinuma, H; Iwasaki, M; et al.
Source: APPLIED PHYSICS LETTERS **Volume:** 78 **Issue:** 4 **Pages:** 506-508 **Published:** JAN 22 2001



- 33.24. **Title:** Quantum theory for the longitudinal Josephson plasma in high-T-c superconductors: QED in 1D Josephson junction array
By: Koyama, T
Source: JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN **Volume:** 68 **Issue:** 6 **Pages:** 2010-2018 **Published:** JUN 1999
- 33.25. **Title:** Phase coherence and Josephson plasma in Bi₂Sr₂CaCu₂O₈+delta
By: Kadowaki, K; Kakeya, I; Kindo, K; et al.
Conference: 1st RIEC International Symposium on Intrinsic Josephson Effects and THz Plasma Oscillations in High-Tc Superconductors **Location:** TOHOKU UNIV, INST MAT RES, SENDAI, JAPAN **Date:** FEB 23-25, 1997 **Sponsor(s):** Tohoku Univ, Res Inst Elect Commun; Japan Sci & Technol Corp; Japan Soc Appl Phys
Source: PHYSICA C **Volume:** 293 **Issue:** 1-4 **Pages:** 130-135 **Published:** DEC 1997
- 33.26. **Title:** Effect of equilibrium fluctuations on superfluid density in layered superconductors
By: Artemenko, SN; Remizov, SV
Source: PHYSICAL REVIEW LETTERS **Volume:** 86 **Issue:** 4 **Pages:** 708-711 **Published:** JAN 22 2001
- 33.27. **Title:** Observation of the Nambu-Goldstone mode in the high-temperature superconductor Bi₂Sr₂CaCu₂O₈+delta
By: Kadowaki, K; Kakeya, I; Kindo, K
Source: EUROPHYSICS LETTERS **Volume:** 42 **Issue:** 2 **Pages:** 203-208 **Published:** APR 15 1998
- 33.28. **Title:** Charge effects and Josephson plasma resonance on planar defects in high-temperature superconductors
By: Gurevich, A; Tachiki, M
Source: PHYSICAL REVIEW LETTERS **Volume:** 83 **Issue:** 1 **Pages:** 183-186 **Published:** JUL 5 1999
- 33.29. **Title:** Vortex state of high-T-c superconductors studied by Josephson plasma resonance
By: Matsuda, Y; Gaifullin, MB
Conference: International Symposium on Intrinsic Josephson Effects and Plasma Oscillation in High-Tc Superconductors **Location:** SENDAI, JAPAN **Date:** AUG 22-24, 2000
Source: PHYSICA C **Volume:** 362 **Pages:** 64-70 **Published:** SEP 2001
- 33.30. **Title:** Dynamics of fluxon lattice in two coupled Josephson junctions
By: Volkov, AF; Glen, VA
Source: JOURNAL OF PHYSICS-CONDENSED MATTER **Volume:** 10 **Issue:** 33 **Pages:** L563-L568 **Published:** AUG 24 1998
- 33.31. **Title:** Plasma waves in anisotropic superconducting films below and above the plasma frequency
By: Doria, MM; Hollauer, G; Parage, F; et al.
Source: PHYSICAL REVIEW B **Volume:** 56 **Issue:** 5 **Pages:** 2722-2731 **Published:** AUG 1 1997
- 33.32. **Title:** Hysteretic jumps in the response of layered superconductors to electromagnetic fields
By: Yampol'skii, V. A.; Slipchenko, T. M.; Mayzelis, Z. A.; et al.
Source: PHYSICAL REVIEW B **Volume:** 78 **Issue:** 18 **Article Number:** 184504 **Published:** NOV 2008
- 33.33. **Title:** Nonlinear Josephson plasma waves in slabs of layered superconductors
By: Yampol'skii, V. A.; Savell'ev, Sergey; Slipchenko, T. M.; et al.
Conference: Vortex V Conference on Nanoscience and Engineering in Superconductivity **Location:** Rhodes, GREECE **Date:** SEP 08-14, 2007
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS **Volume:** 468 **Issue:** 7-10 **Pages:** 499-502 **Published:** APR 1 2008
- 33.34. **Title:** Linear response of layered superconductors with d pairing to a longitudinal electric field
By: Artemenko, SN; Kobelkov, AG
Source: JETP LETTERS **Volume:** 65 **Issue:** 4 **Pages:** 331-336 **Published:** FEB 25 1997
- 33.35. **Title:** Effect of thermal and quantum fluctuations on superfluid density in layered superconductors
By: Artemenko, SN; Remizov, SV
Conference: International Symposium on Intrinsic Josephson Effects and Plasma Oscillation in High-Tc Superconductors **Location:** SENDAI, JAPAN **Date:** AUG 22-24, 2000
Source: PHYSICA C **Volume:** 362 **Pages:** 10-15 **Published:** SEP 2001
- 33.36. **Title:** Effect of Coulomb interaction on the electron spectral density and the transverse conductivity of layered metals
By: Artemenko, SN; Remizov, SV
Source: JETP LETTERS **Volume:** 74 **Issue:** 7 **Pages:** 392-395 **Published:** 2001
- 33.37. **Title:** JOSEPHSON PLASMA RESONANCE SPECTROSCOPY OF THE LAYERED SUPERCONDUCTORS WITH INTRINSIC JOSEPHSON EFFECT
By: Gaifullin, Marat B.; Matsuda, Yuji
Edited by: Kusmartsev, F
Conference: 32nd International Workshop on Condensed Matter Theories **Location:** Loughborough Univ, Loughborough,



- ENGLAND **Date:** AUG 12-19, 2008 **Sponsor(s):** Inst Phys, Theory Condensed Matter Grp; ESF Network Arrays Quantum Dots & Josephson Junct
Source: CONDENSED MATTER THEORIES, VOL 24 **Pages:** 437-455 **Published:** 2010
- 33.38. **Title:** Hysteresis jumps of the surface reactance of a layered superconductor as the incident wave amplitude varies
By: Apostolov, S. S.; Kadygrob, D. V.; Mayselis, Z. A.; et al.
Source: LOW TEMPERATURE PHYSICS **Volume:** 36 **Issue:** 1 **Pages:** 92-99 **Published:** JAN 2010
- 33.39. **Title:** JOSEPHSON PLASMA RESONANCE SPECTROSCOPY OF THE LAYERED SUPERCONDUCTORS WITH INTRINSIC JOSEPHSON EFFECT
By: Gaifullin, Marat B.; Matsuda, Yuji
Conference: 32nd International Workshop on Condensed Matter Theories **Location:** Loughborough Univ, Loughborough, ENGLAND **Date:** AUG 12-19, 2008 **Sponsor(s):** Inst Phys, Theory Condensed Matter Grp; ESF Network Arrays Quantum Dots & Josephson Junct
Source: INTERNATIONAL JOURNAL OF MODERN PHYSICS B **Volume:** 23 **Issue:** 20-21 **Special Issue:** SI **Pages:** 4365-4383 **Published:** AUG 20 2009
- 33.40. **Title:** Josephson plasma resonance in Nd_{1.85}Ce_{0.15}CuO₄-delta single crystals
By: Gaifullin, MB; Matsuda, Y; Saito, Y; et al.
Conference: 13th International Symposium on Superconductivity (ISS 2000) **Location:** TOKYO, JAPAN **Date:** OCT 14-16, 2000
Source: PHYSICA C **Volume:** 357 **Pages:** 520-522 **Part:** 1 **Published:** AUG 2001
34. T. Mishonov and A. Groshev, "Plasmon Excitations in Josephson Arrays and Thin Superconducting Layers", Phys. Rev. Lett. **64**, No. 18 (1990) 2199.
- 34.1. **Title:** OBSERVATION OF PROPAGATING PLASMA MODES IN A THIN SUPERCONDUCTING FILM
By: BUISSON, O; XAVIER, P; RICHARD, J
Source: PHYSICAL REVIEW LETTERS **Volume:** 73 **Issue:** 23 **Pages:** 3153-3156 **Published:** DEC 5 1994
- 34.2. **Title:** Anti-symmetric plasma mode in superconducting films
By: Doria, MM; Parage, F; Buisson, O
Source: EUROPHYSICS LETTERS **Volume:** 35 **Issue:** 6 **Pages:** 445-450 **Published:** AUG 20 1996
- 34.3. **Title:** Plasma modes in periodic two-dimensional superconducting-wire networks
By: Parage, F; Doria, MM; Buisson, O
Source: PHYSICAL REVIEW B **Volume:** 58 **Issue:** 14 **Pages:** R8921-R8924 **Published:** OCT 1 1998
- 34.4. **Title:** Plasma waves in anisotropic superconducting films below and above the plasma frequency
By: Doria, MM; Hollauer, G; Parage, F; et al.
Source: PHYSICAL REVIEW B **Volume:** 56 **Issue:** 5 **Pages:** 2722-2731 **Published:** AUG 1 1997
- 34.5. **Title:** Plasma modes in superconducting wires: Optimized experimental configuration
By: Camarota, B; Parage, F; Wooldridge, I; et al.
Conference: International Conference on Electron Transport in Mesoscopic Systems (ETSM '99) **Location:** GOTHENBURG, SWEDEN **Date:** AUG 12-15, 1999
Source: JOURNAL OF LOW TEMPERATURE PHYSICS **Volume:** 118 **Issue:** 5-6 **Pages:** 589-597 **Published:** MAR 2000
- 34.6. **Title:** Collective oscillations in superconducting thin films in the presence of vortices
By: Doria, MM; d'Almeida, FMR; Buisson, O
Source: PHYSICAL REVIEW B **Volume:** 57 **Issue:** 9 **Pages:** 5489-5495 **Published:** MAR 1 1998
- 34.7. **Title:** Fizeau's interferometer device in thin superconducting films
By: Buisson, O; Hollauer, G; Doria, MM
Source: EUROPHYSICS LETTERS **Volume:** 54 **Issue:** 1 **Pages:** 98-104 **Published:** APR 2001
- 34.8. **Title:** Bernoulli effect on the penetration depth
By: Buisson, O; Hollauer, G; Doria, MM
Conference: 22nd International Conference on Low Temperature Physics **Location:** HELSINKI UNIV TECHNOL, HELSINKI, FINLAND **Date:** AUG 04-11, 1999 **Sponsor(s):** Commiss C5 low Temp Phys; Int Union Pure & Appl Phys; Acad Finland; Helsinki Univ Technol; Int Assoc Promot Sci; Oxford Instruments Ltd; FortumCorp; Nokia Grp; Finnair Ltd; Datex Engstrom Ltd; Finnish Phys Soc; Picker Nordstar Ltd; Neuromag Ltd; SAP Finland Ltd; Espoo Elect Ltd; Outokumpu Ltd; City Espoo; Finnish Acad Sci & Letters; DCA-Instruments Ltd; Vaisala Ltd
Source: PHYSICA B **Volume:** 284 **Pages:** 1892-1893 **Part:** 2 **Published:** JUL 2000
- 34.9. **Title:** Plasma modes in superconducting niobium arrays
By: Parage, F; Buisson, O
Edited by: Rogalla, H; Blank, DHA
Conference: 3rd European Conference on Applied Superconductivity (EUCAS 1997) **Location:** VELDHOVEN,



- NETHERLANDS **Date:** JUN 30-JUL 03, 1997 **Sponsor(s):** ASM Lithog BV, The Netherlands; GEC ALSTROM Intermagnet; Philips Med Syst Magnet Resonance; European Commiss, TMR Programme; Esprit Network Superconducting Electr; Dutch Technol Fdn; Dutch Fdn Fundamental Res Matter; Univ Twente
- Source:** APPLIED SUPERCONDUCTIVITY 1997, VOLS 1 AND 2: VOL 1: SMALL SCALE AND ELECTRONIC APPLICATIONS; VOL 2: LARGE SCALE AND POWER APPLICATIONS **Book Series:** INSTITUTE OF PHYSICS CONFERENCE SERIES **Issue:** 158 **Pages:** 793-796 **Published:** 1997
- 34.10. **Title:** NEW MODES GUIDED BY A THIN SUPERCONDUCTING FILM
By: BUISSON, O; RICHARD, J
Conference: 1994 Applied Superconductivity Conference **Location:** BOSTON, MA **Date:** OCT 16-21, 1994 **Sponsor(s):** MIT, Plasma Fus Ctr, Dept Elect Engr & Comp Sci; US DOE, Off Fus Energy, High Energy Phys; Adv Res Projects Agcy; Natl Inst Stand & Technol; USN, Naval Res Lab; USN, Off Naval Res; Quantum Magnet; IGC Adv Superconductors; Stone & Webster Engr Corp; Technova; Martin Marietta Astronaut; Walker Sci Inc; Westinghouse Sci & Technol Ctr; Babcock & Wilcox; Bechtel Corp; Cosine, Inc; Synchrony
Source: IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY **Volume:** 5 **Issue:** 2 **Pages:** 3038-3041 **Part:** 3 **Published:** JUN 1995
- 34.11. **Title:** OBSERVATION OF PROPAGATING PLASMA MODES IN A THIN SUPERCONDUCTING FILM
By: BUISSON, O; XAVIER, P; RICHARD, J
Source: PHYSICA C **Volume:** 235 **Pages:** 2019-2020 **Part:** 3 **Published:** DEC 1994
35. T. Mishonov, "On the theory of type-I superconductor surface tension and twinning-plane-superconductivity", J. Phys. France **51** (1990) 447.
- 35.1. **Title:** Interface-potential approach to surface states in type-I superconductors
By: Blossey, R; Indekeu, JO
Source: PHYSICAL REVIEW B **Volume:** 53 **Issue:** 13 **Pages:** 8599-8603 **Published:** APR 1 1996
- 35.2. **Title:** Observation of wetting-like phase transitions in a surface-enhanced type-I superconductor
By: Kozhevnikov, V. F.; Van Bael, M. J.; Sahoo, P. K.; et al.
Source: NEW JOURNAL OF PHYSICS **Volume:** 9 **Article Number:** 75 **Published:** MAR 27 2007
- 35.3. **Title:** Accurate analytic expression for the surface tension of a type-I superconductor
By: Boulter, CJ; Indekeu, JO
Source: PHYSICAL REVIEW B **Volume:** 54 **Issue:** 17 **Pages:** 12407-12412 **Published:** NOV 1 1996
- 35.4. **Title:** Wetting phase transitions and critical phenomena in condensed matter
By: Indekeu, J. O.
Conference: 12th International Summer School on Fundamental Problems in Statistical Physics **Location:** European Ctr Foresta, Leuven, BELGIUM **Date:** AUG 31-SEP 11, 2009
Source: PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS **Volume:** 389 **Issue:** 20 **Special Issue:** SI **Pages:** 4332-4359 **Published:** OCT 15 2010
- 35.5. **Title:** Interfacial phase transitions in twinning-plane superconductors
By: Clarysse, F; Indekeu, JO
Source: PHYSICAL REVIEW B **Volume:** 65 **Issue:** 9 **Article Number:** 094515 **Published:** MAR 1 2002
- 35.6. **Title:** Penetration of the magnetic field into the twinning plane in type-I and -II superconductors
By: Mironov, S. V.; Buzdin, A.
Source: PHYSICAL REVIEW B **Volume:** 86 **Issue:** 6 **Article Number:** 064511 **Published:** AUG 9 2012
- 35.7. **Title:** Interfacial tension and interface delocalization phase boundary for strongly type-I superconductors
By: Boulter, CJ; Indekeu, JO
Conference: 13th Symposium on Thermophysical Properties **Location:** UNIV COLORADO, BOULDER, COLORADO **Date:** JUN 22-27, 1997 **Sponsor(s):** Amer Soc Mech Engineers, Heat Transfer Div, Standing Comm Thermophys Properties; Natl Inst Stand & Technol, Chem Sci & Technol Lab, Phys & Chem Properties Div
Source: INTERNATIONAL JOURNAL OF THERMOPHYSICS **Volume:** 19 **Issue:** 3 **Pages:** 857-865 **Published:** MAY 1998
- 35.8. **Title:** Equilibrium intermediate-state patterns in a type-I superconducting slab in an arbitrarily oriented applied magnetic field
By: Clem, John R.; Prozorov, Ruslan; Wijngaarden, Rinke J.
Source: PHYSICAL REVIEW B **Volume:** 88 **Issue:** 10 **Article Number:** 104504 **Published:** SEP 4 2013
- 35.9. **Title:** Non-local electrostatics effect on surface superconductivity
By: Van Cauteren, T.; Indekeu, J. O.
Source: EPL **Volume:** 94 **Issue:** 4 **Article Number:** 46001 **Published:** MAY 2011
36. T. Mishonov and A. Groshev, "Plasma waves in Josephson arrays and thin superconducting layers", JINR - Dubna (1989) E17-89-752. Workshop on Macroscopic Quantum Phenomena, Univ Sussex, Brighton, England aug 23-24, 1990. Macroscopic Quantum Phenomena, 163-166 (1991).

- 36.1. **Title:** OBSERVATION OF PROPAGATING PLASMA MODES IN A THIN SUPERCONDUCTING FILM
By: BUISSON, O; XAVIER, P; RICHARD, J
Source: PHYSICAL REVIEW LETTERS **Volume:** 73 **Issue:** 23 **Pages:** 3153-3156 **Published:** DEC 5 1994
- 36.2. **Title:** Anti-symmetric plasma mode in superconducting films
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Source: EUROPHYSICS LETTERS **Volume:** 35 **Issue:** 6 **Pages:** 445-450 **Published:** AUG 20 1996
- 36.3. **Title:** Plasma modes in periodic two-dimensional superconducting-wire networks
By: Parage, F; Doria, MM; Buisson, O
Source: PHYSICAL REVIEW B **Volume:** 58 **Issue:** 14 **Pages:** R8921-R8924 **Published:** OCT 1 1998
- 36.4. **Title:** Plasma waves in anisotropic superconducting films below and above the plasma frequency
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Source: JOURNAL OF LOW TEMPERATURE PHYSICS **Volume:** 118 **Issue:** 5-6 **Pages:** 589-597 **Published:** MAR 2000
- 36.6. **Title:** Collective oscillations in superconducting thin films in the presence of vortices
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- 36.8. **Title:** Bernouilli effect on the penetration depth
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Source: PHYSICA B **Volume:** 284 **Pages:** 1892-1893 **Part:** 2 **Published:** JUL 2000
- 36.9. **Title:** Plasma modes in superconducting niobium arrays
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Source: APPLIED SUPERCONDUCTIVITY 1997, VOLS 1 AND 2: VOL 1: SMALL SCALE AND ELECTRONIC APPLICATIONS; VOL 2: LARGE SCALE AND POWER APPLICATIONS **Book Series:** INSTITUTE OF PHYSICS CONFERENCE SERIES **Issue:** 158 **Pages:** 793-796 **Published:** 1997
- 36.10. **Title:** NEW MODES GUIDED BY A THIN SUPERCONDUCTING FILM
By: BUISSON, O; RICHARD, J
Conference: 1994 Applied Superconductivity Conference **Location:** BOSTON, MA **Date:** OCT 16-21, 1994 **Sponsor(s):** MIT, Plasma Fus Ctr, Dept Elect Engr & Comp Sci; US DOE, Off Fus Energy, High Energy Phys; Adv Res Projects Agcy; Natl Inst Stand & Technol; USN, Naval Res Lab; USN, Off Naval Res; Quantum Magnet; IGC Adv Superconductors; Stone & Webster Engr Corp; Technova; Martin Marietta Astronaut; Walker Sci Inc; Westinghouse Sci & Technol Ctr; Babcock & Wilcox; Bechtel Corp; Cosine, Inc; Synchrony
Source: IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY **Volume:** 5 **Issue:** 2 **Pages:** 3038-3041 **Part:** 3 **Published:** JUN 1995
- 36.11. **Title:** OBSERVATION OF PROPAGATING PLASMA MODES IN A THIN SUPERCONDUCTING FILM
By: BUISSON, O; XAVIER, P; RICHARD, J
Source: PHYSICA C **Volume:** 235 **Pages:** 2019-2020 **Part:** 3 **Published:** DEC 1994
37. N.B. Ivanov and T.M. Mishonov, "Heat capacity of a Thick Superconducting Plate with Proximity Effect", Phys. Stat. Sol. B **142** K 19 (1987).



- 37.1. **Title:** Effects of confinement and surface enhancement on superconductivity
By: Montevecchi, E; Indekeu, JO
Source: PHYSICAL REVIEW B **Volume:** 62 **Issue:** 21 **Pages:** 14359-14372 **Published:** DEC 1 2000
- 37.2. **Title:** Increasing the critical temperature of a superconductor by curving its surface
By: Montevecchi, E; Indekeu, JO
Source: EUROPHYSICS LETTERS **Volume:** 51 **Issue:** 6 **Pages:** 661-666 **Published:** SEP 2000
- 37.3. **Title:** Boundary conditions, dimensionality, topology and size dependence of the superconducting transition temperature
By: Fink, HJ; Haley, SB; Giuraniuc, CV; et al.
Source: MOLECULAR PHYSICS **Volume:** 103 **Issue:** 21-23 **Pages:** 2969-2978 **Published:** NOV-DEC 2005
- 37.4. **Title:** Surface induced anomalous superconductivity
By: Fink, HJ; Haley, SB
Source: INTERNATIONAL JOURNAL OF MODERN PHYSICS B **Volume:** 17 **Issue:** 11 **Pages:** 2171-2211 **Published:** APR 30 2003
38. Al. Blagoev, Iv. Ivanov, T. Mishonov and Tc. Popov, "Absolute calibration of arbitrary total cross-section for electron excitation of Xe metastable states in the near-threshold region", J. Phys. B: At. Mol. Phys. **17** (1984) L1647 - L1652.
- 38.1. **Title:** TOTAL CROSS-SECTIONS FOR METASTABLE EXCITATION IN THE RARE-GASES
By: MASON, NJ; NEWELL, WR
Source: JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS **Volume:** 20 **Issue:** 6 **Pages:** 1357-1377 **Published:** MAR 28 1987
- 38.2. **Title:** One century of experiments on electron-atom and molecule scattering: A critical review of integral cross-sections .1. Atoms and diatomic molecules
By: Zecca, A; Karwasz, GP; Brusa, RS
Source: RIVISTA DEL NUOVO CIMENTO **Volume:** 19 **Issue:** 3 **Pages:** 1-146 **Published:** 1996
- 38.3. **Title:** MEASUREMENTS OF ELECTRON-IMPACT OPTICAL-EXCITATION FUNCTIONS
By: HEDDLE, DWO; GALLAGHER, JW
Source: REVIEWS OF MODERN PHYSICS **Volume:** 61 **Issue:** 2 **Pages:** 221-278 **Published:** APR 1989
- 38.4. **Title:** ELECTRON-IMPACT FORMATION OF METASTABLE ATOMS
By: FABRIKANT, II; SHPENIK, OB; SNEGURSKY, AV; et al.
Source: PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS **Volume:** 159 **Issue:** 1-2 **Pages:** 1-97 **Published:** FEB 1988
- 38.5. **Title:** STUDIES OF ELECTRON-EXCITATION OF RARE-GAS ATOMS INTO AND OUT OF METASTABLE LEVELS USING OPTICAL AND LASER TECHNIQUES
By: LIN, CC; ANDERSON, LW
Source: ADVANCES IN ATOMIC MOLECULAR AND OPTICAL PHYSICS **Volume:** 29 **Pages:** 1-32 **Published:** 1991
- 38.6. **Title:** SPECTROSCOPIC INVESTIGATION OF THE IONIZATION KINETICS IN XECL LASER DISCHARGES BY XE-STAR DENSITY-MEASUREMENTS
By: HAMMER, T; BOTTICHER, W
Source: APPLIED PHYSICS B-PHOTOPHYSICS AND LASER CHEMISTRY **Volume:** 48 **Issue:** 1 **Pages:** 73-84 **Published:** JAN 1989
- 38.7. **Title:** THE ROLE OF METASTABLE STATES IN CRITICAL IONIZATION VELOCITY DISCHARGES
By: LAI, S; MCNEIL, WJ; MURAD, E
Source: JOURNAL OF GEOPHYSICAL RESEARCH-SPACE PHYSICS **Volume:** 93 **Issue:** A6 **Pages:** 5871-5878 **Published:** JUN 1 1988
- 38.8. **Title:** Benchmark calculations for near-threshold electron-impact excitation of krypton and xenon atoms
By: Zatsarinny, Oleg; Bartschat, Klaus
Source: JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS **Volume:** 43 **Issue:** 7 **Special Issue:** SI **Article Number:** 074031 **Published:** APR 14 2010
- 38.9. **Title:** Near-threshold electron-impact excitation of 5p(5)6s states in Xe: an R-matrix study
By: Grum-Grzhimailo, AN; Bartschat, K
Source: JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS **Volume:** 35 **Issue:** 16 **Pages:** 3479-3495 **Article Number:** PII S0953-4075(02)37176-1 **Published:** AUG 28 2002
- 38.10. **Title:** EFFECTIVE CROSS-SECTION FOR ELECTRON-IMPACT EXCITATION OF XE-I INTO P-3(2) METASTABLE STATES
By: PENKIN, NP; SMIRNOV, VV
Source: OPTIKA I SPEKTROSKOPIYA **Volume:** 61 **Issue:** 3 **Pages:** 655-657 **Published:** SEP 1986
- 38.11. **Title:** Photostimulated desorption of Xe from Au(001) surfaces via transient Xe- formation
By: Ikeda, Akihiko; Matsumoto, Masuaki; Ogura, Shohei; et al.
Source: PHYSICAL REVIEW B **Volume:** 84 **Issue:** 15 **Article Number:** 155412 **Published:** OCT 11 2011



- 38.12. **Title:** ELECTRON COLLISION PROCESSES WITH PLASMA EDGE NEUTRALS
By: TRAJMAR, S
Source: NUCLEAR FUSION **Volume:** 2 **Supplement:** S **Pages:** 15-23 **Published:** 1992
39. Al. Blagoev, T. Mishonov and Tc. Popov, "Superelastic collisions between slow electrons and excited Kr and Xe atoms. Possible reaction mechanism for rare-gas atoms", J. Phys. B: At. Mol. Phys. **17** (1984) 435-441.
- 39.1. **Title:** MANY-BODY THEORY OF ELECTRON-SCATTERING BY EXCITED ATOMIC TARGETS - FUNDAMENTAL FORMULAS
By: CSANAK, G; CARTWRIGHT, DC; DAPAIXAO, FJ
Source: PHYSICAL REVIEW A **Volume:** 48 **Issue:** 4 **Pages:** 2811-2827 **Published:** OCT 1993
- 39.2. **Title:** Langmuir probe measurements of the electron energy distribution function in magnetized gas discharge plasmas
By: Popov, Tsv K.; Ivanova, P.; Dimitrova, M.; et al.
Source: PLASMA SOURCES SCIENCE & TECHNOLOGY **Volume:** 21 **Issue:** 2 **Article Number:** 025004 **Published:** APR 2012
- 39.3. **Title:** SHOCK OF THE 2ND KIND AND ENERGY-DISTRIBUTION OF ELECTRONS IN THE PLASMA OF INERT-GAS AFTER-LUMINESCENCE
By: BEDENKOV, NV; KOLOKOLOV, NB; KUDRYAVTSEV, AA; et al.
Source: ZHURNAL TEKHNICHESKOI FIZIKI **Volume:** 58 **Issue:** 3 **Pages:** 469-474 **Published:** MAR 1988
- 39.4. **Title:** Superelastic diffusion of electrons on the metastables states nsnP P-3(0,2) of the magnesium and strontium atoms
By: Shafranyosh, I. I.; Marushka, V. I.
Source: CANADIAN JOURNAL OF PHYSICS **Volume:** 87 **Issue:** 6 **Pages:** 639-645 **Published:** JUN 2009
40. Al. Blagoev, T. Mishonov and Tc. Popov, "Interaction between metastable Xe atoms in the afterglow plasma", Phys. Lett. A **99** (1983) 221-223.
- 40.1. **Title:** Investigation of the interactions of long-lived excited atoms in the afterglow of gas discharge plasma
By: Blagoev, Alexander; Popov, Tsvyatko; Pilosoff, Nisim; et al.
Edited by: Benova, E; Atanassov, V; Zhelyazkov, I
Conference: 1st International Workshop and Summer School on Plasma Physics **Location:** Kiten, BULGARIA **Date:** JUN 08-12, 2005 **Sponsor(s):** Univ Sofia, Fac Phys; Fdn Theoret & Computat Phys & Astrophys
Source: First International Workshop and Summer School on Plasma Physics **Book Series:** JOURNAL OF PHYSICS CONFERENCE SERIES **Volume:** 44 **Pages:** 80-89 **Published:** 2006