

- [1] **Electrical breakdown of conductors. Fusion stage**
A.P. Baikov, A.M. Iskol'dskii, G.P. Mikitik, V.I. Motorin, S.I. Musher, A.F. Shestak, Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki, N5, 26-31 (1979) [J. of Applied Mechanics and Technical Physics **20**, N5, 542-546 (1979)].
- [2] **Nucleation of liquid phase at bulk melting**
G.P. Mikitik, V.I. Motorin, Kristallografiya **24**, N 6, 1295-1297 (1979) [Crystallography Reports **24**, N6, (1979)].
- [3] **Evaporation of metals under the action of large electric currents**
G.P. Mikitik, V.I. Motorin, S.I. Musher, Zhurnal Tekhnicheskoi Fiziki **52**, N8, 1647-1652 (1982) [Soviet Physics. Technical Physics **27**, N8, 1008-1011 (1982)].
- [4] **Nonlinear orbital magnetization of Bloch electrons in weak fields**
G.P. Mikitik, S.S. Nedorezov, Fizika Nizkikh Temperatur **6**, N4, 537-539 (1980) [Sov. J. Low Temp. Phys. **6**, N4, (1980)].
- [5] **Theory of nonlinear orbital magnetism of Bloch electrons**
G.P. Mikitik, S.S. Nedorezov, Fizika Nizkikh Temperatur **6**, N9, 1163-1173 (1980) [Sov. J. Low Temp. Phys. **6**, N9, 564 (1980)].
- [6] **Nonlinear magnetization of metal films in weak magnetic fields**
G.P. Mikitik, S.S. Nedorezov, E.P. Zinchenko, Fizika Nizkikh Temperatur **7**, N6, 761-769 (1981) [Sov. J. Low Temp. Phys. **7**, N6, 370-374 (1981)].
- [7] **On nonlinear magnetization of conduction electrons in weak magnetic fields**
G.P. Mikitik, S.S. Nedorezov, Fizika Nizkikh Temperatur **8**, N7, 732-739 (1982) [Sov. J. Low Temp. Phys. **8**, N7, 366-369 (1982)].
- [8] **Theory of magnetic susceptibility of bismuth and its alloys with antimony**
G.P. Mikitik, Fizika Nizkikh Temperatur **12**, N3, 272-279 (1986) [Sov. J. Low Temp. Phys. **12**, N3, 153-157 (1986)].
- [9] **Field dependences of the magnetic susceptibility of bismuth and its alloys with antimony in weak magnetic fields**
G.P. Mikitik, Fizika Nizkikh Temperatur **12**, N9, 955-962 (1986) [Sov. J. Low Temp. Phys. **12**, N9, 541-545 (1986)].
- [10] **Fluctuation effects in specific heat of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystals**
I.M. Babich, G.P. Mikitik, Fizika Nizkikh Temperatur **14**, N10, 1102-1104 (1988) [Sov. J. Low Temp. Phys **14**, N10, 604 (1988)]. [pdf_ru](#)
- [11] **Giant anomalies of magnetic susceptibility due to energy band degeneracy in crystals**
G.P. Mikitik, I.V. Svechkarev, Fizika Nizkikh Temperatur **15**, N3, 295-303 (1989) [pdf_ru](#) [Sov. J. Low Temp. Phys. **15**, N3, 165-169 (1989) [pdf_en](#)].
- [12] **Estimation of the temperature curvature of the upper critical field and its anisotropy in high- T_c superconductors from fluctuation effects in heat capacity and magnetic susceptibility**
G.P. Mikitik, A.S. Panfilov, Fizika Nizkikh Temperatur **16**, N6, 794-798 (1990) [Sov. J. Low Temp. Phys. **16**, N6, 468-470 (1990)]. [pdf_ru](#)
- [13] **Temperature dependence of the upper critical field of type II superconductors with fluctuation effects**
G.P. Mikitik, Zh. Eksp. Teor. Fiz. **101**, N3, 1042-1055 (1992) [Sov. Phys. JETP **74**, N3, 558-564 (1992)]. [pdf_en](#)
- [14] **On the character of the superconducting phase transition in type-II superconductors**
I.M. Babich, G.P. Mikitik, Fizika Nizkikh Temperatur **18**, N7, 780-781 (1992) [Sov. J. Low Temp. Phys. **18**, N7, 552-553 (1992)]. [pdf_ru](#)
- [15] **Long-term magnetic relaxation in high- T_c superconductors**
I.M. Babich, G.P. Mikitik, Phys. Rev. B **48**, N2, 1303-1306 (1993). [pdf](#)
- [16] **On the melting curve of a vortex lattice in high- T_c superconductors**
I.M. Babich, G.P. Mikitik, Yu.V. Sharlai, Fizika Nizkikh Temperatur **20**, N3, 277-279 (1994) [Low Temp. Phys. **20**, N3, 220-221 (1994)]. [pdf_ru](#)
- [17] **Upper critical field and melting line of flux-line lattice in clean high- T_c superconductors near T_c**
G.P. Mikitik, Physica C **245**, N1/2, 287-294 (1995).
- [18] **Field dependence of magnetic susceptibility of crystals under conditions of degeneracy of their electron energy bands**
G.P. Mikitik, Yu.V. Sharlai, Fizika Nizkikh Temperatur **22**, N7, 762-771 (1996) [pdf_ru](#) [Low Temp. Phys. **22**, №7, 585-592 (1996) [pdf_en](#)].
- [19] **Magnetic relaxation in a superconducting disc**
I.M. Babich, G.P. Mikitik, Fizika Nizkikh Temperatur **22**, N11, 1329-1331 (1996) [Low Temp. Phys. **22**, N11, 1010-1011 (1996)]. [pdf_ru](#)
- [20] **Magnetic relaxation in superconducting disk**
I.M. Babich, G.P. Mikitik, Phys. Rev. B **54**, N9, 6576-6582 (1996). [pdf](#)
- [21] **"Fishtail" in a magnetic hysteresis loop of an anisotropic superconducting disk**
I.M. Babich, G.P. Mikitik, Czechoslovak Journal of Physics **46-S3**, 1809-1810 (1996).
- [22] **On the nature of the fishtail effect in the magnetic hysteresis loop of high- T_c superconductors**
I.M. Babich, G.P. Mikitik, Pis'ma v ZhETF **64**, N8, 538-542 (1996) [JETP Lett. **64**, N8, 586-591 (1996)]. [pdf_ru](#)
- [23] **Semiclassical energy levels of electrons in metals with band degeneracy lines**
G.P. Mikitik, Yu.V. Sharlai, Zh. Eksp. Teor. Fiz. **114**, N4, 1375-1392 (1998) [JETP **87**, N4, 747-755 (1998)]. [pdf_ru](#)
- [24] **Determination of critical current density and depth of flux-pinning wells in anisotropic platelet-shaped superconductors**
I.M. Babich, G.P. Mikitik, Phys. Rev. B **58**, N21, 14207-14210 (1998). [pdf](#)
- [25] **Semiclassical quantization condition for magnetic energy levels of electrons in metals with band contact lines**
G.P. Mikitik, Yu.V. Sharlai, Fizika Nizkikh Temperatur **25**, N2, 172-176 (1999); [Low Temp. Phys. **25**, N2, 126-129 (1999)]. [pdf_en](#)
- [26] **Manifestation of Berry's phase in metal physics**
G.P. Mikitik, Yu.V. Sharlai, Phys. Rev. Lett. **82**, N10, 2147-2150 (1999). [pdf](#)

- [27] **Analytic Solution for the Critical State in Superconducting Elliptic Films**
G. P. Mikitik and E. H. Brandt, Phys. Rev. B **60**, 592-600 (1999). [pdf](#)
- [28] **Field, temperature, and concentration dependences of the magnetic susceptibility of bismuth-antimony alloys**
G.P. Mikitik, Yu.V. Sharlai, Fizika Nizkikh Temperatur **26**, N1, 54-64 (2000) [Low Temp. Phys. **26**, N1, 39-46 (2000)]. [pdf_ru](#)
- [29] **Critical State in Superconductor Thin Plates with Elliptic Shape**
E. H. Brandt and G. P. Mikitik, Physica B **284-288**, 745-746 (2000).
- [30] **Fishtail effect and magnetic relaxation in anisotropic flat superconductors**
G. P. Mikitik, Physica C **332**, N1-4, 409-412 (2000).
- [31] **Critical State in Thin Anisotropic Flat Superconductors of Arbitrary Shape**
G. P. Mikitik and E. H. Brandt, Phys. Rev. B **62**, 6800-6811 (2000). [pdf](#)
- [32] **Exact Solution for the Critical State in Thin Superconductor Strips with Field Dependent or Anisotropic Pinning**
G. P. Mikitik and E. H. Brandt, Phys. Rev. B **62**, 6812-6819 (2000). [pdf](#)
- [33] **Meissner-London Currents in Superconductors with Rectangular Cross Section**
E. H. Brandt and G. P. Mikitik, Phys. Rev. Lett. **85**, 4164-4167 (2000). [pdf](#)
- [34] **Generation of a DC Voltage by an AC Magnetic Field in Type-II Superconductors**
G. P. Mikitik and E. H. Brandt, Phys. Rev. B **64**, 092502, 1-4 (2001). [pdf](#)
- [35] **Order-Disorder Transition and Melting Line in Conventional and High- T_c Superconductors**
E. H. Brandt and G. P. Mikitik, Superconductor Sci. Technol. **14**, 651-654, (2001).
- [36] **Peak Effect, Melting Line and Order-Disorder Transition in Conventional and High- T_c Superconductors**
G. P. Mikitik and E. H. Brandt, Phys. Rev. B **64**, 184514, 1-14 (2001). [pdf](#)
- [37] **Why an AC Magnetic Field Shifts the Irreversibility Line in Type-II Superconductors**
E. H. Brandt and G. P. Mikitik, Phys. Rev. Lett. **89**, 027002, 1-4 (2002). [pdf](#)
- [38] **Comment on "Superheating and Supercooling of Vortex Matter in a Nb Single Crystal: Direct Evidence for a Phase Transition at the Peak Effect from Neutron Diffraction"**
G. P. Mikitik and E. H. Brandt, Phys. Rev. Lett. **89**, 259701, 1 (2002). [pdf](#)
- [39] **Magnetic Relaxation in a Superconducting Plate with Rotating Flux Lines**
Irina M. Babich, G. P. Mikitik and E. H. Brandt, Phys. Rev. B **66**, 014520, 1-8 (2002). [pdf](#)
- [40] **g factor of conduction electrons in the de Haas - van Alphen effect**
G.P. Mikitik, Yu.V. Sharlai, Phys. Rev. B **65**, 184426, 1-10 (2002). [pdf](#)
- [41] **Theory of the Longitudinal Vortex-Shaking Effect in Superconducting Strips**
G. P. Mikitik and E. H. Brandt, Phys. Rev. B **67**, 104511, 1-8 (2003). [pdf](#)
- [42] **Reversible Magnetic Behavior of Superconductors Forced by a Small Transverse AC Magnetic Field**
E. H. Brandt and G. P. Mikitik, J. Low Temp. Phys. **131**, 1033-1042 (2003).
- [43] **Thermal Melting and Order-Disorder Transition in High- T_c Superconductors**
E. H. Brandt and G. P. Mikitik, Physica C **388-389**, 645-646 (2003).
- [44] **Magnetic Relaxation in Superconductors with Rotating Flux Lines**
Irina Babich, Grigorii Mikitik, and Ernst Helmut Brandt, Physica B **329-333**, 1475-1476 (2003). [preprint.pdf](#)
- [45] **Calculation of conduction electron g-factor in metals: Comparison of electron-spin dynamics and local g-factor approaches.**
G.P. Mikitik, Yu.V. Sharlai, Phys. Rev. B **67**, 115114, 1-9 (2003). [pdf](#)
- [46] **Effect of Pinning on the Vortex-Lattice Melting-Line in Type-II Superconductors**
G. P. Mikitik and E. H. Brandt, Phys. Rev. B **68**, 054509, 1-15 (2003). [pdf](#)
- [47] **Magnetic Relaxation in Partly Penetrated Critical States of Type-II Superconductors**
Irina M. Babich, G. P. Mikitik and E. H. Brandt, Phys. Rev. B **68**, 052509, 1-4 (2003). [pdf](#)
- [48] **Anomalous diamagnetism in the intermetallic compounds CaPb_3 and YbPb_3**
A.E. Baranovskiy, G.E. Grechnev, G.P. Mikitik, I.V. Svechkarev, Fizika Nizkikh Temperatur **29**, N4, 473-476 (2003) [Low Temp. Phys. **29**, N4, 356-358 (2003)]. [pdf_ru](#)
- [49] **Vortex Shaking in Rectangular Superconducting Platelets**
G. P. Mikitik and E. H. Brandt, Phys. Rev. B **69**, 134521, 1-8 (2004). [pdf](#)
- [50] **Melting Line of the Vortex Lattice in Superconductors with Pinning**
E. H. Brandt and G. P. Mikitik, Physica C **408-410**, 487-488 (2004).
- [51] **Vortex Shaking and Magnetic Relaxation in Superconductors**
E. H. Brandt and G. P. Mikitik, Physica C **408-410**, 514-515 (2004).
- [52] **Shaking of the Critical State by a Small Transverse AC Magnetic Field Can Cause Rapid Relaxation in Superconductors**
E. H. Brandt and G. P. Mikitik, Superconductor Science and Technology **17**, 1-5 (2004).
- [53] **H-T Phase Diagram of the Vortex Lattice in Superconductors with Pinning**
E. H. Brandt and G. P. Mikitik, Physica C **404**, 61-68 (2004).
- [54] **Transverse and Longitudinal Vortex Shaking and Magnetic Relaxation in Superconductors**
E. H. Brandt and G. P. Mikitik, Physica C **404**, 69-73 (2004).

- [55] **Superconducting Strip in an Oblique Magnetic Field**
G. P. Mikitik, E. H. Brandt, and M. Indenbom, Phys. Rev. B **70**, 014520, 1-12 (2004). [pdf](#)
- [56] **Magnetic Relaxation in Anisotropic Superconducting Strip**
Irina M. Babich, G. P. Mikitik and E. H. Brandt, Phys. Rev. B, **70**, 174508, 1-8 (2004). [pdf](#)
- [57] **The electron g factor for one-band and two-band extended models of the electron energy spectrum**
G.P. Mikitik, Yu.V. Sharlai, Fizika Nizkikh Temperatur **30**, N12, 1293-1301 (2004) [Low Temp. Phys. **30**, N12, 973-979 (2004)]. [pdf_en](#)
- [58] **Berry phase and de Haas-van Alphen effect in LnRhIn₅**
G.P. Mikitik, Yu.V. Sharlai, Phys. Rev. Lett. **93**, 106403, 1-4 (2004). [pdf](#)
- [59] **Critical State in Type-II Superconductors of Arbitrary Shape**
G. P. Mikitik and E. H. Brandt, Phys. Rev. B **71**, 012510, 1-4 (2005). [pdf](#)
- [60] **Vortex Shaking Effect in Thin Flat Superconductors**
G. P. Mikitik and E. H. Brandt, J. Low Temp. Physics **139**, 221-227 (2005).
- [61] **Anisotropic Superconducting Strip in an Oblique Magnetic Field**
E. H. Brandt and G. P. Mikitik, Phys. Rev. B **72**, 024516, 1-7 (2005). [pdf](#)
- [62] **Pinning in nonmagnetic borocarbides**
A.N. Zholobenko, G.P. Mikitik, V.D. Fil', D.V. Fil', J.D. Kim, E.M. Choi, S.I. Lee, Fizika Nizkikh Temperatur **31**, N12, 1375-1380 (2005) [Low Temp. Phys. **31**, N12, 1043-1047 (2005)]. [pdf_ru](#)
- [63] **Asymmetry of Magnetic Field Profiles in Superconducting Strips**
G. P. Mikitik and E. H. Brandt, Phys. Rev. B **72**, 064506, 1-9 (2005). [pdf](#)
- [64] **Flux Penetration into Superconducting Nb₃Sn in Oblique Magnetic Fields**
Diana G. Gheorghe, Mariela Menghini, Rinke J. Wijngaarden, Ernst Helmut Brandt, Grigorii P. Mikitik, and Wilfried Goldacker, Phys. Rev. B **73**, 224512, 1-9 (2006). [pdf](#)
- [65] **Band-contact lines in the electron energy spectrum of graphite.**
G.P. Mikitik, Yu.V. Sharlai, Phys. Rev. B **73**, 235112, 1-4 (2006). [pdf](#)
- [66] **Self Field of Current Reveals Voltage-Current Law in Type-II Superconductors**
E. H. Brandt, G. P. Mikitik, and E. Zeldov, Phys. Rev. B **74**, 094506, 1-13 (2006). [pdf](#)
- [67] **Critical State in Type-II Superconductors with Order-Disorder Transition**
Irina M. Babich, G. P. Mikitik, and E. H. Brandt, Phys. Rev. B **74**, 224501, 1-7 (2006). [pdf](#)
- [68] **Magnetic Field Profiles of a Superconducting Strip in an Oblique Magnetic Field**
G. P. Mikitik and E. H. Brandt, Physica C **437-438**, 204-207 (2006).
- [69] **Critical State in Type-II Superconductors of Complex Shape**
E. H. Brandt and G. P. Mikitik, AIP Conference Proceedings, Vol. **850**, 827-828 (2006). [pdf](#)
- [70] **Determination of the B-Dependent Critical Current Density in Thin Flat Superconductors by Magneto-Optics**
G. P. Mikitik and E. H. Brandt, AIP Conference Proceedings, Vol. **850**, 829-830 (2006). [pdf](#)
- [71] **Unusual Critical States in Type-II Superconductors**
E. H. Brandt and G. P. Mikitik, Phys. Rev. B **76**, 064526, 1-14 (2007). [pdf](#)
- [72] **Vortex Shaking in Superconducting Platelets in an Inclined Magnetic Field**
E. H. Brandt and G. P. Mikitik, Supercond. Sci. and Technol. **20**, S111-S116 (2007).
- [73] **Superconducting Strip with AC Current**
E. H. Brandt, G. P. Mikitik, E. Zeldov, Physica C **460-462**, 1251-1252 (2007).
- [74] **The phase of the de Haas - van Alphen oscillations, the Berry phase, and band-contact lines in metals**
G.P. Mikitik, Yu.V. Sharlai, Fizika Nizkikh Temperatur **33**, N5, 586-589 (2007); [Low Temp. Phys. **33**, N5, 439-442 (2007)]. [pdf](#)
- [75] **Step-like anomaly of the magnetic susceptibility in crystals with degenerate electronic energy bands**
G.P. Mikitik, Fizika Nizkikh Temperatur **33**, N10, 1104-1108 (2007) [Low Temp. Phys. **33**, N10, 839-842 (2007)]. [pdf_ru](#)
- [76] **Electron energy spectrum and the Berry phase in a graphite bilayer.**
G.P. Mikitik, Yu.V. Sharlai, Phys. Rev. B **77**, 113407, 1-5 (2008). [pdf](#)
- [77] **Influence of spatial variations in the lower critical field on the equilibrium field penetration into superconductors**
Nurit Avraham, E. H. Brandt, G. P. Mikitik, Y. Myasoedov, M. Rappaport, E. Zeldov, C. J. van der Beek, M. Konczykowski, and T. Tamegai, Phys. Rev. B. **77**, 214525, 1-8 (2008). [pdf](#)
- [78] **The Berry phase in graphene and graphite multilayers**
G.P. Mikitik, Yu.V. Sharlai, Fizika Nizkikh Temperatur **34**, N10, 1012-1019 (2008) [Low Temp. Phys. **34**, N10, 794-780 (2008)]. [pdf](#)
- [79] **Flux-line pinning by point defects in anisotropic biaxial type-II superconductors**
G. P. Mikitik and E. H. Brandt, Phys. Rev. B **79**, 020506(R), 1-4 (2009). [pdf](#)
Erratum: Phys. Rev. B **83**, 099902(E) (2011). [pdf](#)
- [80] **Origin of the peaks in the Nernst coefficient of bismuth in strong magnetic fields**
Yu.V. Sharlai, G.P. Mikitik, Phys. Rev. B **79**, 081102(R), 1-4 (2009). [pdf](#)
- [81] **Nanomechanics of an individual vortex in an anisotropic type-II superconductor**
E. H. Brandt, G. P. Mikitik, and E. Zeldov, Phys. Rev. B **80**, 054513, 1-10 (2009). [pdf](#)

- [82] **Longitudinal magnetic field increases critical current in superconducting strip**
E. H. Brandt and G. P. Mikitik, J. of Physics: Conf. Series **150**, 052024, 1-4 (2009). [pdf](#)
- [83] **Transport properties of vortex matter governed by the edge inductance in superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ crystals**
H. Beidenkopf, Y. Myasoedov, E. Zeldov, E. H. Brandt, G. P. Mikitik, T. Tamegai, T. Sasagawa, and C. J. van der Beek, Phys. Rev. B **80**, 224526, 1-5 (2009). [pdf](#)
- [84] **Critical current in type-II superconductors near the order–disorder transition**
I. M. Babich, E. H. Brandt, G. P. Mikitik, and E. Zeldov, Phys. Rev. B **81**, 054517, 1-7 (2010). [pdf](#)
- [85] **Deforming and Moving an Abrikosov Vortex by the Tip of a Magnetic Force Microscope**
E. H. Brandt, G. P. Mikitik, and E. Zeldov, Physica C **470**, 782-785 (2010).
- [86] **Flux-line Pinning by Point Defects in Anisotropic Type-II Superconductors**
G. P. Mikitik and E. H. Brandt, Physica C **470**, S892-S893 (2010).
- [87] **Nanomechanics of an Individual Vortex in a Type-II Superconductor**
E. H. Brandt, G. P. Mikitik, and E. Zeldov, Physica C **470**, S894-S895 (2010).
- [88] **Critical states in thin planar type-II superconductors in a perpendicular or inclined magnetic field** (*Review article*)
G.P. Mikitik, Fizika Nizkikh Temperatur **36**, N1, 17-49 (2010) [Low Temp. Phys. **36**, N1, 13-38 (2010)]. [pdf_ru](#)
- [89] **Oscillations of the Nernst coefficient in bismuth in strong magnetic fields**
Yu.V. Sharlai, G.P. Mikitik, Phys. Rev. B **83**, 085103, 1-4 (2011). [pdf](#)
- [90] **Determination of the anisotropic pinning force by measuring critical current density in inclined magnetic field**
E. H. Brandt and G. P. Mikitik, Phys. Rev. B **83**, 104514, 1-7 (2011). [pdf](#)
- [91] **Suppression of geometrical barrier in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ crystals by Josephson vortex stacks**
Y. Segev, I. Gutman, S. Goldberg, Y. Myasoedov, E. Zeldov, E. H. Brandt, G. P. Mikitik, T. Katagiri, and T. Sasagawa, Phys. Rev. B **83**, 104520, 1-9 (2011). [pdf](#)
- [92] **Lamellar mesophase nucleated by Josephson vortices at the melting of the vortex lattice in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$**
Y. Segev, Y. Myasoedov, E. Zeldov, T. Tamegai, G. P. Mikitik, and E. H. Brandt, Phys. Rev. Lett. **107**, 247001, 1-5 (2011). [pdf](#)
- [93] **Berry phase and the phase of the Shubnikov-de Haas oscillations in three-dimensional topological insulators**
G.P. Mikitik, Yu.V. Sharlai, Phys. Rev. B **85**, 033301, 1-4 (2012). [pdf](#)
- [94] **Analytical methods and formulas for modeling high temperature superconductors** (*Review article*)
G.P. Mikitik, Y. Mawatari, A.T.S. Wan, F. Sirois, IEEE Transactions on Applied Superconductivity **23**, N2, 8001920, 1-20 (2013). [preprint.pdf](#)
- [95] **Two regimes of vortex penetration into platelet-shaped type-II superconductors**
E. H. Brandt, G. P. Mikitik, E. Zeldov, Zh. Eksp. Teor. Fiz. **144**, N3, 508-518 (2013) [JETP **117**, N3, 439-448 (2013)]. [pdf](#)
- [96] **Evidence of anisotropic vortex pinning by intrinsic and irradiation-induced defects in $\text{Ba}(\text{Fe},\text{Co})_2\text{As}_2$ studied by quantitative magneto-optical imaging**
F. Laviano, R. Gerbaldo, G. Ghigo, L. Gozzelino, G. P. Mikitik, T. Taen, T. Tamegai, Supercond. Sci. Technol. **27**, 044014, 1-5 (2014). [pdf](#)
- [97] **Effect of vortex pinning by point defects on the lower critical field in layered superconductors**
G. P. Mikitik, Zh. Eksp. Teor. Fiz. **146**, N3, 563-573 (2014) [JETP **119**, N3, 493-502 (2014)]. [pdf](#)
- [98] **Dirac points of electron energy spectrum, band-contact lines, and electron topological transitions of $3\frac{1}{2}$ kind in three-dimensional metals**
G. P. Mikitik, Yu. V. Sharlai, Phys. Rev. B **90**, 155122, 1-5 (2014). [pdf](#)
- [99] **Spontaneous symmetry breaking of magnetostriction in metals with multivalley band structure**
G. P. Mikitik, Yu. V. Sharlai, Phys. Rev. B **91**, 075111, 1-9 (2015). [pdf](#)
- [100] **Electron topological transitions of $3\frac{1}{2}$ kind in beryllium**
G.P. Mikitik, Yu.V. Sharlai, Fizika Nizkikh Temperatur **41**, N12, 1276-1282 (2015) [Low Temp. Phys. **41**, N12, 996-1000 (2015)]. [pdf_ru](#)
- [101] **Electron topological transitions of $3\frac{1}{2}$ kind in metals**
G. P. Mikitik, Yu. V. Sharlai, J. Low Temp. Phys. **185**, 686-691 (2016). [pdf](#)
- [102] **Magnetic susceptibility of topological nodal semimetals**
G. P. Mikitik, Yu. V. Sharlai, Phys. Rev. B **94**, 195123, 1-13 (2016). [pdf](#)
- [103] **Specific features of magnetostriction at electron topological transitions in metals**
G.P. Mikitik, Yu.V. Sharlai, Fizika Nizkikh Temperatur **43**, N1, 200-205 (2017) [Low Temp. Phys. **43**, N1, 168-172 (2017)]. [pdf_ru](#)
- [104] **Imaging of super-fast dynamics and flow instabilities of superconducting vortices**
L. Embon, Y. Anahory, Ž.L. Jelić, E.O. Lachman, Y. Myasoedov, M.E. Huber, G.P. Mikitik, A.V. Silhanek, M.V. Milošević, A. Gurevich, & E. Zeldov, Nature Communications **8**, 85 (2017). [paper](#)
- [105] **Magnetization of topological line-node semimetals**
G. P. Mikitik, Yu. V. Sharlai, Phys. Rev. B **97**, 085122, 1-9 (2018). [paper.pdf](#), [supplemental material.pdf](#).
- [106] **Oscillations of magnetization in topological line-node semimetals**
G.P. Mikitik, Yu.V. Sharlai, Fizika Nizkikh Temperatur **44**, N6, 727-733 (2018) [Low Temp. Phys. **44**, N6, 567-572 (2018)]. [pdf](#)
- [107] **Magnetic susceptibility of topological semimetals** (*Review article*)
G. P. Mikitik, Yu. V. Sharlai, J. Low Temp. Phys. **197**, N3/4 272-309 (2019). [full-text view-only version](#), [preprint.pdf](#)

- [108] **Crossing points of nodal lines in topological semimetals and the Fermi surface of ZrSiS**
G. P. Mikitik, Yu. V. Sharlai, Phys. Rev. B **101**, 205111, 1-13 (2020). [paper.pdf](#)
- [109] **Analysis of Dirac and Weyl points in topological semimetals via oscillation effects**
G. P. Mikitik, Yu. V. Sharlai, Fizika Nizkikh Temperatur **47**, No. 4, 342-347 (2021) [Low Temp. Phys. **47**, 312 (2021) [paper.pdf](#)], [preprint.pdf](#).
- [110] **Magnetic susceptibility of crystals with crossing of their band-contact lines**
G. P. Mikitik, Yu. V. Sharlai, Fizika Nizkikh Temperatur **47**, No. 7, 654-659 (2021) [Low Temp. Phys. **47**, (2021)], [preprint.pdf](#).