

# Grigorii Mikitik

## List of Publications by Year in descending order

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99  
papers

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279798

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101  
docs citations

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times ranked

1901  
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#	ARTICLE	IF	CITATIONS
1	Phase of quantum oscillation in Weyl semimetals. <i>Low Temperature Physics</i> , 2022, 48, 459-462.	0.6	0
2	Nodal-line driven anomalous susceptibility in ZrSiS. <i>Physical Review B</i> , 2022, 105, .	3.2	1
3	Detection of relativistic fermions in Weyl semimetal TaAs by magnetostriction measurements. <i>Nature Communications</i> , 2022, 13, .	12.8	3
4	Analysis of Dirac and Weyl points in topological semimetals via oscillation effects. <i>Low Temperature Physics</i> , 2021, 47, 312-317.	0.6	4
5	Magnetic susceptibility of crystals with crossing of their band-contact lines. <i>Low Temperature Physics</i> , 2021, 47, 605-610.	0.6	2
6	Critical current in thin flat superconductors with Bean-Livingston and geometrical barriers. <i>Physical Review B</i> , 2021, 104, .	3.2	5
7	Crossing points of nodal lines in topological semimetals and the Fermi surface of ZrSiS. <i>Physical Review B</i> , 2020, 101, .	3.2	5
8	Magnetic Susceptibility of Topological Semimetals. <i>Journal of Low Temperature Physics</i> , 2019, 197, 272-309.	1.4	12
9	Magnetization of topological line-node semimetals. <i>Physical Review B</i> , 2018, 97, .	3.2	13
10	Oscillations of magnetization in topological line-node semimetals. <i>Low Temperature Physics</i> , 2018, 44, 567-572.	0.6	3
11	Specific features of magnetostriction at electron topological transitions in metals. <i>Low Temperature Physics</i> , 2017, 43, 168-172.	0.6	2
12	Imaging of super-fast dynamics and flow instabilities of superconducting vortices. <i>Nature Communications</i> , 2017, 8, 85.	12.8	149
13	Magnetic susceptibility of topological nodal semimetals. <i>Physical Review B</i> , 2016, 94, .	3.2	28
14	Electron Topological Transitions of $\frac{1}{2}$ Kind in Metals. <i>Journal of Low Temperature Physics</i> , 2016, 185, 686-691.	1.4	4
15	Spontaneous symmetry breaking of magnetostriction in metals with multivalley band structure. <i>Physical Review B</i> , 2015, 91, .	3.2	9
16	Electron topological transitions of $3\frac{1}{2}$ kind in beryllium. <i>Low Temperature Physics</i> , 2015, 41, 996-1000.	0.6	8
17	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. <i>Superconductor Science and Technology</i> , 2014, 27, 044014.	3.5	14
18	Effect of vortex pinning by point defects on the lower critical field in layered superconductors. <i>Journal of Experimental and Theoretical Physics</i> , 2014, 119, 493-502.	0.9	0



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37	The Berry phase in graphene and graphite multilayers. <i>Low Temperature Physics</i> , 2008, 34, 794-800.	0.6	38
38	Influence of spatial variations in the lower critical field on the equilibrium field penetration into superconductors. <i>Physical Review B</i> , 2008, 77, .	3.2	8
39	Electron energy spectrum and the Berry phase in a graphite bilayer. <i>Physical Review B</i> , 2008, 77, .	3.2	54
40	Vortex shaking in superconducting platelets in an inclined magnetic field. <i>Superconductor Science and Technology</i> , 2007, 20, S111-S116.	3.5	11
41	Unusual critical states in type-II superconductors. <i>Physical Review B</i> , 2007, 76, .	3.2	26
42	The phase of the de Haas-van Alphen oscillations, the Berry phase, and band-contact lines in metals. <i>Low Temperature Physics</i> , 2007, 33, 439-442.	0.6	20
43	Step-like anomaly of the magnetic susceptibility in crystals with degenerate electronic energy bands. <i>Low Temperature Physics</i> , 2007, 33, 839-842.	0.6	4
44	Superconducting strip with ac current. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 1251-1252.	1.2	1
45	Critical State in Type-II Superconductors of Complex Shape. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
46	Determination of the B-Dependent Critical Current Density in Thin Flat Superconductors by Magneto-Optics. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	1
47	Magnetic field profiles of a superconducting strip in an oblique magnetic field. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 437-438, 204-207.	1.2	3
48	Critical state in type-II superconductors with order-disorder transition. <i>Physical Review B</i> , 2006, 74, .	3.2	7
49	Self field of ac current reveals voltage-current law in type-II superconductors. <i>Physical Review B</i> , 2006, 74, .	3.2	3
50	Flux penetration into superconducting Nb <sub>3</sub> Sn in oblique magnetic fields. <i>Physical Review B</i> , 2006, 73, .	3.2	5
51	Band-contact lines in the electron energy spectrum of graphite. <i>Physical Review B</i> , 2006, 73, .	3.2	80
52	Pinning in nonmagnetic borocarbides. <i>Low Temperature Physics</i> , 2005, 31, 1043-1047.	0.6	3
53	Vortex-shaking effect in thin flat superconductors. <i>Journal of Low Temperature Physics</i> , 2005, 139, 221-227.	1.4	0
54	Vortex-Shaking Effect in Thin Flat Superconductors. <i>Journal of Low Temperature Physics</i> , 2005, 139, 221-227.	1.4	10

#	ARTICLE	IF	CITATIONS
55	Critical state in type-II superconductors of arbitrary shape. <i>Physical Review B</i> , 2005, 71, .	3.2	26
56	Anisotropic superconducting strip in an oblique magnetic field. <i>Physical Review B</i> , 2005, 72, .	3.2	20
57	Asymmetry of magnetic-field profiles in superconducting strips. <i>Physical Review B</i> , 2005, 72, .	3.2	7
58	Berry Phase and de Haas-van Alphen Effect in $\text{LaRhIn}_5$ . <i>Physical Review Letters</i> , 2004, 93, 106403.	7.8	34
59	Magnetic relaxation in an anisotropic superconducting strip. <i>Physical Review B</i> , 2004, 70, .	3.2	2
60	Vortex shaking in rectangular superconducting platelets. <i>Physical Review B</i> , 2004, 69, .	3.2	40
61	Superconducting strip in an oblique magnetic field. <i>Physical Review B</i> , 2004, 70, .	3.2	29
62	Shaking of the critical state by a small transverse ac field can cause rapid relaxation in superconductors. <i>Superconductor Science and Technology</i> , 2004, 17, S1-S5.	3.5	36
63	Transverse and longitudinal vortex shaking and magnetic relaxation in superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 404, 69-73.	1.2	5
64	Melting line of the vortex lattice in superconductors with pinning. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 487-488.	1.2	0
65	Vortex shaking and magnetic relaxation in superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 514-515.	1.2	2
66	$H$ - $T$ phase diagram of the vortex lattice in superconductors with pinning. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 404, 61-68.	1.2	2
67	The electron $g$ factor for one-band and two-band extended models of the electron energy spectrum. <i>Low Temperature Physics</i> , 2004, 30, 973-979.	0.6	2
68	Magnetic relaxation in superconductors with rotating flux lines. <i>Physica B: Condensed Matter</i> , 2003, 329-333, 1475-1476.	2.7	0
69	Thermal melting and order-disorder transition in high- $T_c$ superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2003, 388-389, 645-646.	1.2	3
70	Reversible Magnetic Behavior of Superconductors Forced by a Small Transverse AC Magnetic Field. <i>Journal of Low Temperature Physics</i> , 2003, 131, 1033-1042.	1.4	5
71	Anomalous diamagnetism in the intermetallic compounds $\text{CaPb}_3$ and $\text{YbPb}_3$ . <i>Low Temperature Physics</i> , 2003, 29, 356-358.	0.6	8
72	Magnetic relaxation in partly penetrated critical states of type-II superconductors. <i>Physical Review B</i> , 2003, 68, .	3.2	8

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73	Calculation of conduction electron g-factor in metals: Comparison of electron-spin dynamics and local g-factor approaches. <i>Physical Review B</i> , 2003, 67, .	3.2	10
74	Effect of pinning on the vortex-lattice melting line in type-II superconductors. <i>Physical Review B</i> , 2003, 68, .	3.2	50
75	Theory of the longitudinal vortex-shaking effect in superconducting strips. <i>Physical Review B</i> , 2003, 67, .	3.2	66
76	Why an ac Magnetic Field Shifts the Irreversibility Line in Type-II Superconductors. <i>Physical Review Letters</i> , 2002, 89, 027002.	7.8	101
77	g-factor of conduction electrons in the de Haas-van Alphen effect. <i>Physical Review B</i> , 2002, 65, .	3.2	16
78	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"; <i>Physical Review Letters</i> , 2002, 89, 259701; author reply 259702.	7.8	14
79	Magnetic relaxation in a superconducting plate with rotating flux lines. <i>Physical Review B</i> , 2002, 66, .	3.2	6
80	Order-disorder transition and melting line in conventional and high-Tc superconductors. <i>Superconductor Science and Technology</i> , 2001, 14, 651-654.	3.5	18
81	Peak effect, vortex-lattice melting line, and order-disorder transition in conventional and high-Tc superconductors. <i>Physical Review B</i> , 2001, 64, .	3.2	150
82	Generation of a dc voltage by an ac magnetic field in type-II superconductors. <i>Physical Review B</i> , 2001, 64, .	3.2	97
83	Field, temperature, and concentration dependences of the magnetic susceptibility of bismuth-antimony alloys. <i>Low Temperature Physics</i> , 2000, 26, 39-46.	0.6	15
84	Critical state in superconductor thin plates with elliptic shape. <i>Physica B: Condensed Matter</i> , 2000, 284-288, 745-746.	2.7	0
85	Fishtail effect and magnetic relaxation in anisotropic flat superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 332, 398-401.	1.2	5
86	Critical state in thin anisotropic superconductors of arbitrary shape. <i>Physical Review B</i> , 2000, 62, 6800-6811.	3.2	77
87	Exact solution for the critical state in thin superconductor strips with field-dependent or anisotropic pinning. <i>Physical Review B</i> , 2000, 62, 6812-6819.	3.2	23
88	Meissner-London Currents in Superconductors with Rectangular Cross Section. <i>Physical Review Letters</i> , 2000, 85, 4164-4167.	7.8	51
89	Manifestation of Berry's Phase in Metal Physics. <i>Physical Review Letters</i> , 1999, 82, 2147-2150.	7.8	391
90	Analytic solution for the critical state in superconducting elliptic films. <i>Physical Review B</i> , 1999, 60, 592-600.	3.2	26

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91	Semiclassical quantization condition for magnetic energy levels of electrons in metals with band-contact lines. <i>Low Temperature Physics</i> , 1999, 25, 126-129.	0.6	0
92	Semiclassical energy levels of electrons in metals with band degeneracy lines. <i>Journal of Experimental and Theoretical Physics</i> , 1998, 87, 747-755.	0.9	31
93	Determination of critical current density and effective depth of flux-pinning wells in anisotropic platelet-shaped superconductors. <i>Physical Review B</i> , 1998, 58, 14207-14210.	3.2	12
94	“Fishtail” in a magnetic hysteresis loop of an anisotropic superconducting disk. <i>European Physical Journal D</i> , 1996, 46, 1809-1810.	0.4	0
95	On the nature of the fishtail effect in the magnetic hysteresis loop of high-T <sub>c</sub> superconductors. <i>JETP Letters</i> , 1996, 64, 586-591.	1.4	5
96	Magnetic relaxation in a superconducting disk. <i>Physical Review B</i> , 1996, 54, 6576-6582.	3.2	13
97	Upper critical field and melting line of the flux-line lattice in clean high-T <sub>c</sub> superconductors near T <sub>c</sub> . <i>Physica C: Superconductivity and Its Applications</i> , 1995, 245, 287-294.	1.2	5
98	Long-term magnetic relaxation in high-T <sub>c</sub> superconductors. <i>Physical Review B</i> , 1993, 48, 1303-1305.	3.2	6
99	Electrical breakdown of conductors. Fusion stage. <i>Journal of Applied Mechanics and Technical Physics</i> , 1980, 20, 542-546.	0.5	3