

# Alexei E Koshelev

## List of Publications by Citations

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168  
papers

7,773  
citations

45  
h-index

83  
g-index

180  
ext. papers

8,229  
ext. citations

4.1  
avg, IF

6.05  
L-index

#	Paper	IF	Citations
168	Emission of coherent THz radiation from superconductors. <i>Science</i> , <b>2007</b> , 318, 1291-3	33.3	581
167	Thermal fluctuations and phase transitions in the vortex state of a layered superconductor. <i>Physical Review B</i> , <b>1991</b> , 43, 2835-2843	3.3	507
166	Dynamic Melting of the Vortex Lattice. <i>Physical Review Letters</i> , <b>1994</b> , 73, 3580-3583	7.4	446
165	Flux pinning and creep in very anisotropic high temperature superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>1990</b> , 168, 29-39	1.3	276
164	Two-band superconductivity in MgB <sub>2</sub> . <i>Physical Review Letters</i> , <b>2002</b> , 89, 187002	7.4	274
163	The role of surface effects in magnetization of high-T <sub>c</sub> superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>1990</b> , 170, 291-297	1.3	221
162	Crossing Lattices, Vortex Chains, and Angular Dependence of Melting Line in Layered Superconductors. <i>Physical Review Letters</i> , <b>1999</b> , 83, 187-190	7.4	208
161	Magnetic anisotropy of a Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>x</sub> single crystal. <i>Physical Review Letters</i> , <b>1992</b> , 69, 2276-2279	7.4	182
160	Scanning Tunneling Microscopy Observation of a Square Abrikosov Lattice in LuNi <sub>2</sub> B <sub>2</sub> C. <i>Physical Review Letters</i> , <b>1997</b> , 78, 4273-4276	7.4	166
159	Giant flux creep through surface barriers and the irreversibility line in high-temperature superconductors. <i>Physical Review B</i> , <b>1994</b> , 50, 16770-16773	3.3	135
158	Paramagnetic moment in field-cooled superconducting plates: Paramagnetic Meissner effect. <i>Physical Review B</i> , <b>1995</b> , 52, 13559-13562	3.3	125
157	Mixed state of a dirty two-band superconductor: application to MgB <sub>2</sub> . <i>Physical Review Letters</i> , <b>2003</b> , 90, 177002	7.4	118
156	Periodic alternating 0- and $\pi$ -junction structures as realization of $\pi$ -Josephson junctions. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	114
155	Plasma Resonance and Remaining Josephson Coupling in the "Decoupled Vortex Liquid Phase" in Layered Superconductors. <i>Physical Review Letters</i> , <b>1996</b> , 77, 3901-3904	7.4	112
154	Upper critical field in dirty two-band superconductors: Breakdown of the anisotropic Ginzburg-Landau theory. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	109
153	Radiation due to Josephson oscillations in layered superconductors. <i>Physical Review Letters</i> , <b>2007</b> , 99, 057002	7.4	103
152	Vortices in high-performance high-temperature superconductors. <i>Reports on Progress in Physics</i> , <b>2016</b> , 79, 116501	14.4	100

151	Anisotropic Upper Critical Field of LuNi <sub>2</sub> B <sub>2</sub> C. <i>Physical Review Letters</i> , <b>1997</b> , 79, 1738-1741	7.4	100
150	Tunable terahertz emission from Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ mesa devices. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	96
149	Resonant electromagnetic emission from intrinsic Josephson-junction stacks with laterally modulated Josephson critical current. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	94
148	Pinning-induced transition to disordered vortex phase in layered superconductors. <i>Physical Review B</i> , <b>1998</b> , 57, 8026-8033	3.3	92
147	Alternating dynamic state self-generated by internal resonance in stacks of intrinsic Josephson junctions. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	90
146	Static and Dynamic Vortex Phases in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . <i>Physical Review Letters</i> , <b>1996</b> , 77, 2073-2076	7.4	86
145	Frequency response of pinned vortex lattice. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 173, 465-475	1.3	83
144	Effects of 1-GeV uranium ion irradiation on vortex pinning in single crystals of the high-temperature superconductor YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>1997</b> , 56, 913-924	3.3	82
143	Ginzburg-Landau theory of fluctuation magnetization of two-dimensional superconductors. <i>Physical Review B</i> , <b>1994</b> , 50, 506-516	3.3	80
142	Powerful terahertz emission from Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ mesa arrays. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 022602	3.4	79
141	High, magnetic field independent critical currents in (Ba,K)Fe <sub>2</sub> As <sub>2</sub> crystals. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 012601	3.4	70
140	Transport properties of high-temperature superconductors: Surface vs bulk effect. <i>Physical Review B</i> , <b>1996</b> , 54, 6750-6757	3.3	68
139	Huge critical current density and tailored superconducting anisotropy in SmFeAsO <sub>1-x</sub> F <sub>x</sub> by low-density columnar-defect incorporation. <i>Nature Communications</i> , <b>2013</b> , 4, 2655	17.4	59
138	Mechanism of thermally activated c-axis dissipation in layered high-T <sub>c</sub> superconductors at high fields. <i>Physical Review Letters</i> , <b>1996</b> , 76, 1340-1343	7.4	58
137	Disorder-induced decoupling of pancake vortices in a layered superconductor. <i>Physical Review B</i> , <b>1996</b> , 53, 2786-2791	3.3	58
136	Why magnesium diboride is not described by anisotropic Ginzburg-Landau theory. <i>Physical Review Letters</i> , <b>2004</b> , 92, 107008	7.4	57
135	Anisotropic phase diagram and strong coupling effects in Ba <sub>1-x</sub> K <sub>x</sub> Fe <sub>2</sub> As <sub>2</sub> from specific-heat measurements. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	56
134	Point-like and line-like melting of the vortex lattice in the universal phase diagram of layered superconductors. <i>Physical Review B</i> , <b>1997</b> , 56, 11201-11212	3.3	56

133	Vortex shear modulus and lattice melting in twin boundary channels of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> . <i>Physical Review Letters</i> , <b>1996</b> , 76, 4596-4599	7.4	56
132	Direct imaging of hot spots in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+δ</sub> mesa terahertz sources. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 133902	2.5	54
131	Theory and simulations on strong pinning of vortex lines by nanoparticles. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	54
130	Stability of dynamic coherent states in intrinsic Josephson-junction stacks near internal cavity resonance. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	53
129	Calorimetric determination of the upper critical fields and anisotropy of NdFeAsO <sub>1-x</sub> F <sub>x</sub> single crystals. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	53
128	Edge critical currents of dense Josephson vortex lattice in layered superconductors. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	52
127	Kink walls and critical behavior of magnetization near the lock-in transition in layered superconductors. <i>Physical Review B</i> , <b>1993</b> , 48, 1180-1191	3.3	52
126	Collective-pinning theory for magnetically coupled layered superconductors. <i>Physical Review B</i> , <b>1993</b> , 48, 6539-6549	3.3	47
125	Stable large-scale solver for Ginzburg-Landau equations for superconductors. <i>Journal of Computational Physics</i> , <b>2015</b> , 294, 639-654	4.1	45
124	Toward Superconducting Critical Current by Design. <i>Advanced Materials</i> , <b>2016</b> , 28, 4593-600	2.4	45
123	Columnar defects and vortex fluctuations in layered superconductors. <i>Physical Review B</i> , <b>1996</b> , 53, R8855-R8858	3.3	44
122	Doping- and irradiation-controlled pinning of vortices in BaFe <sub>2</sub> (As <sub>1-x</sub> P <sub>x</sub> ) <sub>2</sub> single crystals. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	43
121	Two-band effects in the angular dependence of H <sub>c2</sub> of MgB <sub>2</sub> single crystals. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	43
120	Anisotropic phase diagram and superconducting fluctuations of single-crystalline SmFeAsO <sub>0.85</sub> F <sub>0.15</sub> . <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	42
119	Resonances, instabilities, and structure selection of driven Josephson lattice in layered superconductors. <i>Physical Review Letters</i> , <b>2000</b> , 85, 3938-41	7.4	42
118	Radiation from a single Josephson junction into free space due to Josephson oscillations. <i>Physical Review Letters</i> , <b>2006</b> , 97, 267001	7.4	41
117	Dynamic structure selection and instabilities of driven Josephson lattice in high-temperature superconductors. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	41
116	Radiation from Flux Flow in Josephson Junction Structures. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2007</b> , 19, 349-367	1.5	39

115	Role of in-plane dissipation in dynamics of a Josephson vortex lattice in high-temperature superconductors. <i>Physical Review B</i> , <b>2000</b> , 62, R3616-R3619	3-3	38
114	Thermal Management in Large Bi2212 Mesas Used for Terahertz Sources. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2009</b> , 19, 428-431	1.8	37
113	Emission of Terahertz Waves From Stacks of Intrinsic Josephson Junctions. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2009</b> , 19, 886-890	1.8	37
112	Terahertz wave emission from intrinsic Josephson junctions in high-Tc superconductors. <i>Superconductor Science and Technology</i> , <b>2009</b> , 22, 114009	3-1	37
111	Surface contribution to the superconducting properties of MgB2 single crystals. <i>Physical Review B</i> , <b>2003</b> , 68,	3-3	37
110	Effect of disorder in MgB2 thin films. <i>Physical Review B</i> , <b>2005</b> , 71,	3-3	37
109	High-field critical current enhancement by irradiation induced correlated and random defects in (Ba0.6K0.4)Fe2As2. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 202601	3-4	36
108	Numerical simulations of driven vortex systems. <i>Physical Review B</i> , <b>2000</b> , 61, 1446-1455	3-3	36
107	Thermally activated penetration of magnetic flux through a surface barrier in high-Tc superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>1992</b> , 191, 219-223	1-3	36
106	Effect of magnetic impurities on the vortex lattice properties in NbSe2 single crystals. <i>Physical Review B</i> , <b>2008</b> , 78,	3-3	34
105	Josephson vortices and solitons inside pancake vortex lattice in layered superconductors. <i>Physical Review B</i> , <b>2003</b> , 68,	3-3	34
104	Josephson Plasma Resonance as a Structural Probe of Vortex Liquid. <i>Physical Review Letters</i> , <b>1998</b> , 81, 902-905	7-4	34
103	Structure of a moving vortex lattice. <i>Physical Review Letters</i> , <b>1996</b> , 76, 831-834	7-4	34
102	Probing quasiparticle dynamics in Bi2Sr2CaCu2O8+ $\delta$ with a driven Josephson vortex lattice. <i>Physical Review B</i> , <b>2003</b> , 68,	3-3	33
101	Optimization of vortex pinning by nanoparticles using simulations of the time-dependent Ginzburg-Landau model. <i>Physical Review B</i> , <b>2016</b> , 93,	3-3	32
100	Evaporation of the pancake-vortex lattice in weakly coupled layered superconductors. <i>Physical Review Letters</i> , <b>2000</b> , 84, 2698-701	7-4	32
99	Vortex-chain phases in layered superconductors. <i>Physical Review B</i> , <b>2005</b> , 71,	3-3	30
98	Time-dependent Ginzburg-Landau simulations of vortex guidance by twin boundaries. <i>Physica C: Superconductivity and Its Applications</i> , <b>1996</b> , 263, 401-408	1-3	30

97	Surface barrier in the mixed state of type-II superconductors near equilibrium. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 223, 276-282	1.3	29
96	Thermal destruction of phase coherence in layered superconductors A new phase transition in an ordered vortex state. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 173, 180-184	1.3	29
95	Numerical simulation of thermal depinning for a two-dimensional vortex system. <i>Physica C: Superconductivity and Its Applications</i> , <b>1992</b> , 198, 371-377	1.3	29
94	Influence of electron-phonon scattering on the properties of high T <sub>c</sub> superconductors. <i>Solid State Communications</i> , <b>1989</b> , 72, 81-83	1.6	29
93	Simulation of the Vortex Dynamics in a Real Pinning Landscape of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> Coated Conductors. <i>Physical Review Applied</i> , <b>2016</b> , 5,	4.3	28
92	Josephson coupling, phase correlations, and Josephson plasma resonance in vortex liquid phase. <i>Physical Review B</i> , <b>2000</b> , 62, 14403-14418	3.3	28
91	Theory of fluctuations in a two-band superconductor: MgB <sub>2</sub> . <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	27
90	Strong-pinning regimes by spherical inclusions in anisotropic type-II superconductors. <i>Superconductor Science and Technology</i> , <b>2018</b> , 31, 014001	3.1	27
89	Transport currents measured in ring samples: test of superconducting weld. <i>Physica C: Superconductivity and Its Applications</i> , <b>2001</b> , 350, 17-23	1.3	26
88	Structure of Vortex Liquid Phase in Irradiated Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> Crystals. <i>Physical Review Letters</i> , <b>1999</b> , 82, 1008-1011	7.4	25
87	Anisotropic superconductivity and magnetism in single-crystal RbEuFe <sub>4</sub> As <sub>4</sub> . <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	24
86	Suppression of surface barriers in superconductors by columnar defects. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	23
85	Superconducting and normal-state anisotropy of the doped topological insulator SrBiSe. <i>Scientific Reports</i> , <b>2018</b> , 8, 7666	4.9	23
84	The 2D collective creep exponents reconsidered. <i>Physica C: Superconductivity and Its Applications</i> , <b>1995</b> , 248, 179-184	1.3	22
83	Equilibrium magnetization of a Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>x</sub> single crystal measured up to 20 T. <i>Physical Review Letters</i> , <b>1994</b> , 72, 3614-3617	7.4	22
82	Vortex lattice melting in multilayers with variable anisotropies. <i>Physical Review Letters</i> , <b>1994</b> , 72, 3250-3253	7.5	22
81	Statistics of the subgap states of s <sub>B</sub> superconductors. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	21
80	Vortex matter in layered superconductors without Josephson coupling: Numerical simulations within a mean-field approach. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	21

79	Nanocalorimetric evidence for nematic superconductivity in the doped topological insulator Sr <sub>0.1</sub> Bi <sub>2</sub> Se <sub>3</sub> . <i>Physical Review B</i> , <b>2018</b> , 98,	3-3	21
78	Anomalous proximity effects at the interface of s- and s <sub>±</sub> - superconductors. <i>Physical Review B</i> , <b>2012</b> , 86,	3-3	20
77	Effects of vortex pinning and thermal fluctuations on the Josephson plasma resonance in Tl <sub>2</sub> Ba <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> and YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.5</sub> . <i>Physical Review Letters</i> , <b>2001</b> , 86, 4660-3	7-4	20
76	Plasma resonance at low magnetic fields as a probe of vortex line meandering in layered superconductors. <i>Physical Review B</i> , <b>2000</b> , 61, R3819-R3822	3-3	20
75	Current Filamentation in Large Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ Mesa Devices Observed via Luminescent and Scanning Laser Thermal Microscopy. <i>Physical Review Applied</i> , <b>2015</b> , 3,	4-3	19
74	The ac Josephson relation and inhomogeneous temperature distributions in large Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ mesas for THz emission. <i>Superconductor Science and Technology</i> , <b>2013</b> , 26, 085016	3-1	19
73	Phase diagram for a driven vortex lattice in layered superconductors. <i>Physical Review B</i> , <b>1997</b> , 56, 5136-5139	3-3	19
72	Visualization of interacting crossing vortex lattices in the presence of quenched disorder. <i>Physical Review Letters</i> , <b>2002</b> , 89, 217003	7-4	19
71	Complex state induced by impurities in multiband superconductors. <i>Physical Review B</i> , <b>2014</b> , 89,	3-3	18
70	Composite to tilted vortex lattice transition in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ in oblique fields. <i>Physical Review Letters</i> , <b>2006</b> , 97, 237005	7-4	18
69	Specific heat and phase diagrams of single crystal iron pnictide superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>2009</b> , 469, 575-581	1-3	17
68	Novel features of Josephson flux flow in Bi-2212: contribution of in-plane dissipation, coherent response to mm-wave radiation, size effect. <i>Physica C: Superconductivity and Its Applications</i> , <b>2002</b> , 367, 365-375	1-3	17
67	Linear magnetoconductivity in multiband spin-density-wave metals with nonideal nesting. <i>Physical Review B</i> , <b>2013</b> , 88,	3-3	15
66	Universal properties for linelike melting of the vortex lattice. <i>Physical Review B</i> , <b>1999</b> , 59, 4358-4363	3-3	15
65	Strongly fluctuating moments in the high-temperature magnetic superconductor RbEuFe <sub>4</sub> As <sub>4</sub> . <i>Physical Review B</i> , <b>2019</b> , 99,	3-3	14
64	Magnetic oscillations of critical current in intrinsic Josephson-junction stacks. <i>Physical Review B</i> , <b>2007</b> , 75,	3-3	14
63	Microscopic theory of thermal phase slips in clean narrow superconducting wires. <i>Physical Review Letters</i> , <b>2007</b> , 98, 197005	7-4	14
62	Interlayer quasiparticle transport in the vortex state of Josephson coupled superconductors. <i>Physical Review Letters</i> , <b>2000</b> , 84, 1296-9	7-4	14

61	Proximity fingerprint of $s \pm$ -superconductivity. <i>Europhysics Letters</i> , <b>2011</b> , 96, 27014	1.6	13
60	Slowing down the Josephson vortex lattice in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ with pancake vortices. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	13
59	Tilt of pancake vortex stacks in layered superconductors in the crossing lattice regime. <i>Physical Review Letters</i> , <b>2005</b> , 94, 067001	7.4	13
58	Fluctuations in two-band superconductors in strong magnetic field. <i>Superconductor Science and Technology</i> , <b>2014</b> , 27, 124001	3.1	12
57	Evidence for linelike vortex liquid phase in $\text{Tl}_2\text{Ba}_2\text{CaCu}_2\text{O}_8$ probed by the Josephson plasma resonance. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	12
56	Fluctuation broadening of the plasma resonance line in the vortex liquid state of layered superconductors. <i>Physical Review B</i> , <b>1999</b> , 60, R3743-R3746	3.3	12
55	Targeted evolution of pinning landscapes for large superconducting critical currents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 10291-10296	11.5	11
54	Synchronization of Josephson oscillations in a mesa array of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ through the Josephson plasma waves in the base crystal. <i>Physica C: Superconductivity and Its Applications</i> , <b>2013</b> , 491, 24-29	1.3	11
53	Phase diagram of Josephson junction between $s$ and $s \pm$ superconductors in the dirty limit. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	11
52	Terahertz Technology: Terahertz Tomographic Imaging With a Fresnel Lens. <i>Optics and Photonics News</i> , <b>2002</b> , 13, 58	1.9	11
51	Josephson coupling and plasma resonance in a vortex crystal. <i>Physica C: Superconductivity and Its Applications</i> , <b>2000</b> , 341-348, 1503-1506	1.3	11
50	Josephson vortex lattice in layered superconductors. <i>Journal of Experimental and Theoretical Physics</i> , <b>2013</b> , 117, 449-479	1	10
49	Resonant terahertz radiation from layered superconductors: mechanisms of damping and structure of dynamic states. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 150, 052124	0.3	10
48	Peak effect due to competing vortex ground states in superconductors with large inclusions. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	10
47	Self-induced magnetic flux structure in the magnetic superconductor $\text{RbEuFe}_4\text{As}_4$ . <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	9
46	Anisotropic upper critical field of pristine and proton-irradiated single crystals of the magnetically ordered superconductor $\text{RbEuFe}_4\text{As}_4$ . <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	9
45	Quantum FFLO State in Clean Layered Superconductors. <i>Physical Review X</i> , <b>2019</b> , 9,	9.1	8
44	Anomalous density of states in multiband superconductors near the Lifshitz transition. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	8

43	Linewidth of the electromagnetic radiation from Josephson junctions near cavity resonances. <i>Physical Review B</i> , <b>2013</b> , 87,	3-3	8
42	Anisotropic superconductors in tilted magnetic fields. <i>Physical Review B</i> , <b>2015</b> , 91,	3-3	8
41	Fluctuating pancake vortices revealed by dissipation of the Josephson vortex lattice. <i>Physical Review B</i> , <b>2011</b> , 83,	3-3	8
40	Shapiro steps and stimulated radiation of electromagnetic waves due to Josephson oscillations in layered superconductors. <i>Physical Review B</i> , <b>2008</b> , 78,	3-3	8
39	Electrodynamics of the Josephson vortex lattice in high-temperature superconductors. <i>Physical Review B</i> , <b>2007</b> , 76,	3-3	8
38	Shunt-capacitor-assisted synchronization of oscillations in intrinsic Josephson junctions stack. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 033908	2-5	7
37	Influence of disorder on the transport properties of two-dimensional vortex liquids. <i>Physical Review B</i> , <b>1992</b> , 45, 12936-12941	3-3	7
36	Helical structures in layered magnetic superconductors due to indirect exchange interactions mediated by interlayer tunneling. <i>Physical Review B</i> , <b>2019</b> , 100,	3-3	7
35	Melting of vortex lattice in the magnetic superconductor RbEuFe <sub>4</sub> As <sub>4</sub> . <i>Physical Review B</i> , <b>2019</b> , 100,	3-3	6
34	Thermal conductivity in the mixed state of a superconductor at low magnetic fields. <i>Physical Review B</i> , <b>2011</b> , 83,	3-3	6
33	The superconducting energy gap and vortex lattice structure in LuNi <sub>2</sub> B <sub>2</sub> C. <i>Physica C: Superconductivity and Its Applications</i> , <b>1997</b> , 282-287, 355-358	1-3	6
32	STM tunnelling spectroscopy in MgB <sub>2</sub> thin films: the role of band structure in tunnelling spectra. <i>Superconductor Science and Technology</i> , <b>2004</b> , 17, S106-S111	3-1	6
31	Thermally activated penetration of the magnetic flux through surface barrier in the high-T <sub>c</sub> superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 185-189, 2435-2436	1-3	6
30	Magnetotransport of multiple-band nearly antiferromagnetic metals due to hot-spot scattering. <i>Physical Review B</i> , <b>2016</b> , 94,	3-3	5
29	Temperature-dependent anisotropies of upper critical field and London penetration depth. <i>Physical Review B</i> , <b>2019</b> , 100,	3-3	5
28	Critical fields and vortex pinning in overdoped Ba <sub>0.2</sub> K <sub>0.8</sub> Fe <sub>2</sub> As <sub>2</sub> . <i>Physical Review B</i> , <b>2015</b> , 91,	3-3	5
27	Angular dependence of c-axis magnetoresistance in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ single crystals with columnar defects. <i>Physical Review B</i> , <b>1999</b> , 60, 96-99	3-3	5
26	Observing the Suppression of Superconductivity in RbEuFe <sub>4</sub> As <sub>4</sub> by Correlated Magnetic Fluctuations. <i>Physical Review Letters</i> , <b>2021</b> , 126, 157001	7-4	5

25	Observation of a two-mode resonant state in a Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\Gamma$ mesa device for terahertz emission. <i>Physical Review B</i> , <b>2019</b> , 100,	3-3	5
24	Strong Landau-quantization effects in high-magnetic-field superconductivity of a two-dimensional multiple-band metal near the Lifshitz transition. <i>Physical Review B</i> , <b>2017</b> , 95,	3-3	4
23	Vortex matter in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> with pointlike disorder. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 150, 052119	0-3	4
22	Low-angle resistivity anomaly in layered superconductors. <i>Physical Review B</i> , <b>1995</b> , 51, 11678-11682	3-3	4
21	Interplay between orbital-quantization effects and the Fulde-Ferrell-Larkin-Ovchinnikov instability in multiple-band layered superconductors. <i>Physical Review B</i> , <b>2018</b> , 97,	3-3	4
20	Cooperative response of magnetism and superconductivity in the magnetic superconductor RbEuFe <sub>4</sub> As <sub>4</sub> . <i>Physical Review B</i> , <b>2020</b> , 101,	3-3	3
19	Coexisting multiple dynamic states generated by magnetic field in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\Gamma$ stacked Josephson junctions. <i>Europhysics Letters</i> , <b>2009</b> , 88, 27007	1.6	3
18	STM studies of CoxNbSe <sub>2</sub> and MnxNbSe <sub>2</sub> . <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 150, 052073	0-3	3
17	Vortex-core properties and vortex-lattice transformation in FeSe. <i>Physical Review B</i> , <b>2019</b> , 99,	3-3	2
16	Tuning the structure of the Josephson vortex lattice in BiSrCaCuO single crystals with pancake vortices. <i>Scientific Reports</i> , <b>2018</b> , 8, 10914	4-9	2
15	Stripe domains and first-order phase transition in the vortex matter of anisotropic high-temperature superconductors. <i>Physical Review Letters</i> , <b>2014</b> , 112, 157001	7-4	2
14	Local spin-density-wave order inside vortex cores in multiband superconductors. <i>Physical Review B</i> , <b>2015</b> , 92,	3-3	2
13	Mesoscopic variations of local density of states in disordered superconductors. <i>Physical Review B</i> , <b>2012</b> , 85,	3-3	2
12	Surface nematic order in iron pnictides. <i>Physical Review B</i> , <b>2016</b> , 94,	3-3	2
11	Thick Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\Gamma$ films grown by liquid-phase epitaxy for Josephson THz applications. <i>Superconductor Science and Technology</i> , <b>2018</b> , 31, 015009	3-1	2
10	Effect of point-like disorder on the vortex phase diagram in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\Gamma$ in oblique field. <i>Physica C: Superconductivity and Its Applications</i> , <b>2010</b> , 470, S257-S258	1-3	1
9	Tilted and crossing vortex chains in layered superconductors. <i>Journal of Low Temperature Physics</i> , <b>2005</b> , 139, 111-125	1-3	1
8	Driven motion of vortices in superconductors <b>1996</b> , 303-315		1

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| 7 | Magnetoresistance Scaling and the Origin of H-Linear Resistivity in BaFe <sub>2</sub> (As <sub>1-x</sub> P <sub>x</sub> ) <sub>2</sub> . <i>Physical Review X</i> , <b>2020</b> , 10,                          | 9.1 | 1 |
| 6 | Magneto-Optical Imaging of Josephson Vortices in Layered Superconductors <b>2004</b> , 39-46   |     | 1 |
| 5 | Suppression of superconducting parameters by correlated quasi-two-dimensional magnetic fluctuations. <i>Physical Review B</i> , <b>2020</b> , 102,   | 3.3 | 1 |
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