

# Alex Gurevich

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Nonlinear Meissner effect in $\text{Nb}_3\text{Sn}/\text{AlO}_x/\text{Nb}$ coplanar resonators. <i>Physical Review Research</i> , 2022, 4, .	1.3	11
2	Development and characterization of $\text{Nb}_3\text{Sn}/\text{Al}_2\text{O}_3$ superconducting multilayers for particle accelerators. <i>Scientific Reports</i> , 2021, 11, 7770.	1.6	10
3	Effect of random pinning on nonlinear dynamics and dissipation of a vortex driven by a strong microwave current. <i>Physical Review B</i> , 2021, 103, .	1.1	11
4	Superconductivity in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_2$ . <i>Physical Review B</i> , 2020, 102, .	1.5	15
5	Dynamic pair-breaking current, critical superfluid velocity, and nonlinear electromagnetic response of nonequilibrium superconductors. <i>Physical Review B</i> , 2020, 102, .	1.1	7
6	Electron Tunneling and X-Ray Photoelectron Spectroscopy Studies of the Superconducting Properties of Nitrogen-Doped Niobium Resonator Cavities. <i>Physical Review Applied</i> , 2020, 13, .	1.5	20
7	Observation of in-plane magnetic field induced phase transitions in FeSe. <i>Physical Review B</i> , 2020, 101, .	1.1	19
8	Nonlinear dynamics and dissipation of a curvilinear vortex driven by a strong time-dependent Meissner current. <i>Physical Review B</i> , 2020, 101, .	1.1	18
9	Flux expulsion in niobium superconducting radio-frequency cavities of different purity and essential contributions to the flux sensitivity. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	0.6	27
10	Instability of flux flow and production of vortex-antivortex pairs by current-driven Josephson vortices in layered superconductors. <i>Physical Review B</i> , 2019, 99, .	1.1	3
11	Field-dependent nonlinear surface resistance and its optimization by surface nanostructuring in superconductors. <i>Physical Review B</i> , 2019, 100, .	1.1	44
12	Evidence for preferential flux flow at the grain boundaries of superconducting RF-quality niobium. <i>Superconductor Science and Technology</i> , 2018, 31, 045001.	1.8	4
13	Current-driven production of vortex-antivortex pairs in planar Josephson junction arrays and phase cracks in long-range order. <i>Scientific Reports</i> , 2018, 8, 15460.	1.6	4
14	Tuning vortex fluctuations and the resistive transition in superconducting films with a thin overlayer. <i>Physical Review B</i> , 2018, 98, .	1.1	6
15	Theory of RF superconductivity for resonant cavities. <i>Superconductor Science and Technology</i> , 2017, 30, 034004.	1.8	73
16	Dynamic transition of vortices into phase slips and generation of vortex-antivortex pairs in thin film Josephson junctions under dc and ac currents. <i>Physical Review B</i> , 2017, 95, .	1.1	24
17	Imaging of super-fast dynamics and flow instabilities of superconducting vortices. <i>Nature Communications</i> , 2017, 8, 85.	5.8	149
18	Surface impedance and optimum surface resistance of a superconductor with an imperfect surface. <i>Physical Review B</i> , 2017, 96, .	1.1	46

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19	Anisotropic thermodynamic and transport properties of single-crystalline $\text{CaKFe}_4\text{AsF}_6$ . Physical Review B, 2016, 94, .	1.1	16
20	Anisotropy reversal of the upper critical field at low temperatures and spin-locked superconductivity in $\text{K}_2\text{Fe}_4\text{As}_2\text{F}_6$ . Physical Review B, 2015, 91, .	1.1	55
21	Current-induced depairing in the $\text{Bi}_2\text{FeTe}$ interfacial superconductor. Physical Review B, 2015, 92, .	1.1	18
22	Maximum screening fields of superconducting multilayer structures. AIP Advances, 2015, 5, .	0.6	42
23	Fragmentation of Fast Josephson Vortices and Breakdown of Ordered States by Moving Topological Defects. Scientific Reports, 2015, 5, 17821.	1.6	8
24	Probing dynamics and pinning of single vortices in superconductors at nanometer scales. Scientific Reports, 2015, 5, 7598.	1.6	74
25	The Mixed State of Thin Films in Parallel Fields. NATO Science for Peace and Security Series C: Environmental Security, 2015, , 15-19.	0.1	0
26	Decrease of the surface resistance in superconducting niobium resonator cavities by the microwave field. Applied Physics Letters, 2014, 104, .	1.5	33
27	Roles of intrinsic anisotropy and $\text{I}\bar{\text{E}}$ -band pairbreaking effects on critical currents in tilted- $c$ -axis $\text{MgB}_2$ films probed by magneto-optical and transport measurements. Physical Review B, 2014, 90, .	1.1	8
28	Challenges and Opportunities for Applications of Unconventional Superconductors. Annual Review of Condensed Matter Physics, 2014, 5, 35-56.	5.2	55
29	Reduction of Dissipative Nonlinear Conductivity of Superconductors by Static and Microwave Magnetic Fields. Physical Review Letters, 2014, 113, 087001.	2.9	49
30	Nonlinear dynamics of Josephson vortices in a film screen under dc and ac magnetic fields. Physica C: Superconductivity and Its Applications, 2014, 506, 59-68.	0.6	6
31	Effect of vortex hotspots on the radio-frequency surface resistance of superconductors. Physical Review B, 2013, 87, .	1.1	58
32	Imaging of the Surface Resistance of an SRF Cavity by Low-Temperature Laser Scanning Microscopy. IEEE Transactions on Applied Superconductivity, 2013, 23, 3500506-3500506.	1.1	2
33	Superconducting Radio-Frequency Fundamentals for Particle Accelerators. , 2013, , 119-146.		0
34	The vortex explosion transition. , 2013, , .		0
35	Effect of impurities on the superheating field of type-II superconductors. Physical Review B, 2012, 85, .	1.1	49
36	Superconducting Radio-Frequency Fundamentals for Particle Accelerators. Reviews of Accelerator Science and Technology, 2012, 05, 119-146.	0.5	53

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37	Comment on "Vortex-assisted photon counts and their magnetic field dependence in single-photon superconducting detectors". Physical Review B, 2012, 86, .	1.1	13
38	Thermally activated dynamics of spontaneous perpendicular vortices tuned by parallel magnetic fields in thin superconducting films. Physical Review B, 2012, 86, .	1.1	8
39	The behavior of grain boundaries in the Fe-based superconductors. Reports on Progress in Physics, 2011, 74, 124511.	8.1	127
40	Suppressed Superconductivity on the Surface of Superconducting RF Quality Niobium for Particle Accelerating Cavities. , 2011, , .		3
41	Magneto-Optical Study High-Purity Niobium for Superconducting RF Application. AIP Conference Proceedings, 2011, , .	0.3	9
42	To use or not to use cool superconductors?. Nature Materials, 2011, 10, 255-259.	13.3	103
43	Significant enhancement of upper critical fields by doping and strain in iron-based superconductors. Physical Review B, 2011, 84, .	1.1	135
44	Iron-based superconductors at high magnetic fields. Reports on Progress in Physics, 2011, 74, 124501.	8.1	174
45	Disorder-dependent superconducting phase diagram at high magnetic fields in Fe <sub>1-x</sub> Se <sub>x</sub> thin films. Physical Review B, 2011, 84, .	1.1	14
46	Anisotropy of the irreversibility field for Zr-doped (Y,Gd)Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin films up to 45 T. Physical Review B, 2011, 84, .	1.1	8
47	Multiband superconductivity in LaFeAsO <sub>0.9</sub> F <sub>0.1</sub> single crystals probed by high-field vortex torque magnetometry. Physical Review B, 2011, 83, .	1.1	6
48	Anisotropic upper critical field and possible Fulde-Ferrel-Larkin-Ovchinnikov state in the stoichiometric pnictide superconductor LiFeAs. Physical Review B, 2011, 83, .	1.1	108
49	High-field properties of pure and doped MgB <sub>2</sub> and Fe-based superconductors. MRS Bulletin, 2011, 36, 626-630.	1.7	3
50	High-field properties of carbon-doped MgB <sub>2</sub> thin films by hybrid physical-chemical vapor deposition using different carbon sources. Superconductor Science and Technology, 2011, 24, 125014.	1.8	21
51	Magneto-Optical Study High-Purity Niobium for Superconducting RF Application. AIP Conference Proceedings, 2011, , .	0.3	1
52	Suppressed Superconductivity on the Surface of Superconducting RF Quality Niobium for Particle Accelerating Cavities. AIP Conference Proceedings, 2011, , .	0.3	0
53	High-T <sub>c</sub> superconducting materials for electric power applications. , 2010, , 311-320.		644
54	New Fe-based superconductors: properties relevant for applications. Superconductor Science and Technology, 2010, 23, 034003.	1.8	253

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55	Strong vortex pinning in Co-doped BaFe <sub>2</sub> As <sub>2</sub> single crystal thin films. Applied Physics Letters, 2010, 96, .	1.5	66
56	Upper critical field and the Fulde-Ferrel-Larkin-Ovchinnikov transition in multiband superconductors. Physical Review B, 2010, 82, .	1.1	89
57	Helical instability of charged vortices in layered superconductors. Physical Review B, 2010, 81, .	1.1	3
58	Characterization of superconducting nanometric multilayer samples for superconducting rf applications: First evidence of magnetic screening effect. Physical Review Special Topics: Accelerators and Beams, 2010, 13, .	1.8	20
59	The electromagnetic properties of iron-based superconductors. Superconductor Science and Technology, 2010, 23, 050201-050201.	1.8	3
60	Measurement of the nonlinear Meissner effect in superconducting Nb films using a resonant microwave cavity: A probe of unconventional pairing symmetries. Physical Review B, 2010, 81, .	1.1	31
61	Suppression of the Critical Temperature of Superconducting NdFeAs(O/F) Single Crystals by Kondo-Like Defect Sites Induced by $\mu\pm$ -Particle Irradiation. Physical Review Letters, 2010, 104, 087002.	2.9	70
62	Magnetoconductance oscillations in superconducting granular niobium nitride nanowires. Physical Review B, 2009, 80, .	1.1	18
63	Publisher's Note: Specific heat investigation in high magnetic field of the magnetic ordering of the rare-earth lattice in RFeAsO: The case of Sm [Phys. Rev. B80, 214404 (2009)]. Physical Review B, 2009, 80, .	1.1	0
64	Small anisotropy, weak thermal fluctuations, and high field superconductivity in Co-doped iron pnictide Ba(Fe <sub>1-x</sub> Cox) <sub>2</sub> As <sub>2</sub> . Applied Physics Letters, 2009, 94, .	1.5	337
65	Intergrain current flow in a randomly oriented polycrystalline SmFeAsO <sub>0.85</sub> oxypnictide. Applied Physics Letters, 2009, 95, .	1.5	73
66	High-field phase-diagram of Fe arsenide superconductors. Physica C: Superconductivity and Its Applications, 2009, 469, 566-574.	0.6	30
67	Pinning, thermally activated depinning and their importance for tuning the nanoprecipitate size and density in high J <sub>c</sub> YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> films. Physica C: Superconductivity and Its Applications, 2009, 469, 2021-2028.	0.6	16
68	Weak-link behavior of grain boundaries in superconducting Ba(Fe <sub>1-x</sub> Cox) <sub>2</sub> As <sub>2</sub> bicrystals. Applied Physics Letters, 2009, 95, .	1.5	163
69	Combined microstructural and magneto-optical study of current flow in polycrystalline forms of Nd and Sm Fe-oxypnictides. Superconductor Science and Technology, 2009, 22, 015010.	1.8	45
70	Specific heat investigation in high magnetic field of the magnetic ordering of the rare-earth lattice in $R$ : FeAsO. The case of Sm. Physical Review B, 2009, 80, .	1.1	13
71	Two-band superconductivity in LaFeAsO <sub>0.89</sub> F <sub>0.11</sub> at very high magnetic fields. Nature, 2008, 453, 903-905.	13.7	490
72	Size Effects in the Nonlinear Resistance and Flux Creep in a Virtual Berezinskii-Kosterlitz-Thouless State of Superconducting Films. Physical Review Letters, 2008, 100, 227007.	2.9	33

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73	Upper critical fields and thermally-activated transport of $\text{NdFeAsO}_{1-x}\text{F}_x$ crystal. Physical Review B, 2008, 78, .	1.1	303
74	Comparative high-field magnetotransport of the oxypnictide superconductors $\text{RFeAsO}_{1-x}\text{F}_x$ (R=La, Nd) and $\text{SmFeAsO}_{1-x}\text{F}_x$ . Physical Review B, 2008, 78, .	1.1	121
75	Significant reduction of AC losses in YBCO patterned coated conductors with transposed filaments. Superconductor Science and Technology, 2008, 21, 082004.	1.8	32
76	Evidence for two distinct scales of current flow in polycrystalline Sm and Nd iron oxypnictides. Superconductor Science and Technology, 2008, 21, 095008.	1.8	118
77	Dynamics of vortex penetration, jumpwise instabilities, and nonlinear surface resistance of type-II superconductors in strong rf fields. Physical Review B, 2008, 77, .	1.1	70
78	Evidence of high-field radio-frequency hot spots due to trapped vortices in niobium cavities. Physical Review Special Topics: Accelerators and Beams, 2008, 11, .	1.8	30
79	Superconductivity and antiferromagnetic ordering in the high-field paramagnetic oxypnictide $\text{NdFeAsO}_{0.94}\text{F}_{0.06}$ . Physical Review B, 2008, 78, .	1.1	17
80	Nanoscale Disorder in $\text{MgB}_2$ Thin Films Grown by Hybrid Physical-Chemical Vapor Deposition. Microscopy and Microanalysis, 2008, 14, 212-213.	0.2	0
81	Microstructural Investigation of the Most Efficient Vortex Pinning in a Superconducting $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Film. Microscopy and Microanalysis, 2008, 14, 342-343.	0.2	18
82	Paramagnetic Properties of $\text{NdFeAsO}_{0.94}\text{F}_{0.06}$ Polycrystals. Journal of the Physical Society of Japan, 2008, 77, 84-86.	0.7	2
83	Three-dimensional vortex pinning by nano-precipitates in a Sm-doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ coated conductor. Superconductor Science and Technology, 2007, 20, S205-S210.	1.8	30
84	Measurement of the high-field $Q_{\text{drop}}$ in a high-purity large-grain niobium cavity for different oxidation processes. Physical Review Special Topics: Accelerators and Beams, 2007, 10, .	1.8	34
85	Mechanisms for enhanced supercurrent across meandered grain boundaries in high-temperature superconductors. Journal of Applied Physics, 2007, 102, 083912.	1.1	37
86	Pinning size effects in critical currents of superconducting films. Superconductor Science and Technology, 2007, 20, S128-S135.	1.8	62
87	On the through-thickness critical current density of an $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ film containing a high density of insulating, vortex-pinning nanoprecipitates. Applied Physics Letters, 2007, 90, 252502.	1.5	35
88	Limits of the upper critical field in dirty two-gap superconductors. Physica C: Superconductivity and Its Applications, 2007, 456, 160-169.	0.6	155
89	Grain boundary flux penetration and resistivity in large grain niobium sheet. Physica C: Superconductivity and Its Applications, 2006, 441, 126-129.	0.6	15
90	Multiscale mechanisms of SRF breakdown. Physica C: Superconductivity and Its Applications, 2006, 441, 38-43.	0.6	50

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91	Evidence for non-linear BCS resistance in SRF cavities. Physica C: Superconductivity and Its Applications, 2006, 441, 51-56.	0.6	23
92	Mechanisms of weak thickness dependence of the critical current density in strong-pinning organic-deposition-route YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> -coated conductors. Superconductor Science and Technology, 2006, 19, 968-979.	1.8	67
93	Phase Textures Induced by dc-Current Pair Breaking in Weakly Coupled Multilayer Structures and Two-Gap Superconductors. Physical Review Letters, 2006, 97, 137003.	2.9	44
94	Enhancement of rf breakdown field of superconductors by multilayer coating. Applied Physics Letters, 2006, 88, 012511.	1.5	125
95	Electromagnetic, atomic structure and chemistry changes induced by Ca-doping of low-angle YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> grain boundaries. Nature Materials, 2005, 4, 470-475.	13.3	79
96	Dendritic Flux Avalanches and Nonlocal Electrodynamics in Thin Superconducting Films. Physical Review Letters, 2005, 94, 037002.	2.9	119
97	Temperature and field dependence of the flux-line-lattice symmetry in V <sub>3</sub> Si. Physical Review B, 2005, 72, .	1.1	22
98	Imaging Local Dissipation and Magnetic Field in YBCO Films With Artificial Defects. IEEE Transactions on Applied Superconductivity, 2005, 15, 2954-2957.	1.1	14
99	High-field superconductivity in alloyed MgB <sub>2</sub> thin films. Physical Review B, 2005, 71, .	1.1	228
100	Scanning laser imaging of dissipation in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> -coated conductors. Applied Physics Letters, 2004, 85, 2568-2570.	1.5	26
101	Thermally activated current transport in MgB <sub>2</sub> films. Physical Review B, 2004, 70, .	1.1	38
102	Very high upper critical fields in MgB <sub>2</sub> produced by selective tuning of impurity scattering. Superconductor Science and Technology, 2004, 17, 278-286.	1.8	281
103	Enhancement of the upper critical field by nonmagnetic impurities in dirty two-gap superconductors. Physical Review B, 2003, 67, .	1.1	629
104	Strongly linked current flow in polycrystalline forms of the superconductor MgB <sub>2</sub> . Nature, 2001, 410, 186-189.	13.7	883
105	High critical current density and enhanced irreversibility field in superconducting MgB <sub>2</sub> thin films. Nature, 2001, 411, 558-560.	13.7	477
106	High-T <sub>c</sub> superconducting materials for electric power applications. Nature, 2001, 414, 368-377.	13.7	1,130
107	Electronic anisotropy, magnetic field-temperature phase diagram and their dependence on resistivity in c-axis oriented MgB <sub>2</sub> thin films. Superconductor Science and Technology, 2001, 14, 315-319.	1.8	157
108	Magneto-optical studies of the uniform critical state in bulk MgB <sub>2</sub> . Superconductor Science and Technology, 2001, 14, 811-815.	1.8	26

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109	Nonlinear current flow in superconductors with restricted geometries. <i>Physical Review B</i> , 2001, 63, .	1.1	61
110	Thermal instability near planar defects in superconductors. <i>Applied Physics Letters</i> , 2001, 78, 1891-1893.	1.5	22
111	Vortex Avalanches and Magnetic Flux Fragmentation in Superconductors. <i>Physical Review Letters</i> , 2001, 87, 067003.	2.9	77
112	Nonlinear current flow and electric field domains in inhomogeneous superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 341-348, 1249-1250.	0.6	2
113	Improved strong magnetic field performance of low angle grain boundaries of calcium and oxygen overdoped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> . <i>Applied Physics Letters</i> , 2000, 77, 3251-3253.	1.5	71
114	Nonlinear transport current flow in superconductors with planar obstacles. <i>Physical Review B</i> , 2000, 62, 4004-4025.	1.1	54
115	Large enhancement of critical-current density due to vortex matching at the periodic facet structure in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> bicrystals. <i>Physical Review B</i> , 1998, 57, 10951-10958.	1.1	26
116	On the effect of dislocation arrays on the superconducting transition temperature in HTSC. <i>Low Temperature Physics</i> , 1998, 24, 793-796.	0.2	1
117	Multiple peaks in the angular and field dependence of the critical currents in Nb-47wt%Ti/Cu multilayers. <i>IEEE Transactions on Applied Superconductivity</i> , 1997, 7, 1205-1208.	1.1	1
118	Reconstruction of Current Flow and Imaging of Current-Limiting Defects in Polycrystalline Superconducting Films. <i>Science</i> , 1997, 275, 367-369.	6.0	85
119	Evidence for channel conduction in low misorientation angle [001] tilt YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> bicrystal films. <i>Applied Physics Letters</i> , 1996, 69, 577-579.	1.5	103
120	Magneto-optical study of flux penetration and critical current densities in [001] tilt YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thin-film bicrystals. <i>Physical Review B</i> , 1996, 53, 8687-8697.	1.1	127
121	Dynamic Matching of Vortex Lattice in Superconducting Multilayers. <i>Physical Review Letters</i> , 1996, 77, 4078-4081.	2.9	11
122	High critical current densities in Nb47%Ti multilayers with a planar copper flux pinning nanostructure. <i>Applied Physics Letters</i> , 1996, 68, 1567-1569.	1.5	15
123	Magnetic granularity, percolation and preferential current flow in a silver-sheathed Bi <sub>1.8</sub> Pb <sub>0.4</sub> Sr <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>8+x</sub> tape. <i>Physica C: Superconductivity and Its Applications</i> , 1995, 246, 133-144.	0.6	136
124	Suppression of magnetic granularity by transport current in (Bi,Pb) <sub>2</sub> Sr <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> tapes. <i>Applied Physics Letters</i> , 1995, 67, 2720-2722.	1.5	48
125	Static and dynamic mechanisms of the anomalous field dependence of magnetization in Bi-Sr-Ca-Cu-O and Bi-Pb-Sr-Ca-Cu-O single crystals. <i>Physical Review B</i> , 1994, 50, 16774-16777.	1.1	30
126	Flux creep in superconducting films: An exact solution. <i>Physical Review Letters</i> , 1994, 73, 178-181.	2.9	102



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127	Anisotropic flux pinning in a network of planar defects. Physical Review B, 1994, 50, 13563-13576.	1.1	160
128	Effect of geometry on the critical currents of thin films. Physical Review B, 1994, 49, 1274-1288.	1.1	94
129	Flux pinning, granularity and the irreversibility line of the high-Tc superconductor HgBa <sub>2</sub> CuO <sub>4+x</sub> . Nature, 1993, 364, 129-131.	13.7	67
130	Time scales of the flux creep in superconductors. Physical Review B, 1993, 48, 6477-6487.	1.1	175
131	Nonlinear viscous motion of vortices in Josephson contacts. Physical Review B, 1993, 48, 12857-12865.	1.1	56
132	Modeling the current-voltage characteristics of silver-sheathed Bi-2212-CuO tapes. Applied Physics Letters, 1993, 62, 1688-1690.	1.5	20
133	Magnetic Properties of Superconducting Rb <sub>3</sub> C <sub>60</sub> . Europhysics Letters, 1992, 17, 175-179.	0.7	39
134	Macrovortex structure and magnetic granularity in anisotropic superconductors. Superconductor Science and Technology, 1992, 5, S383-S386.	1.8	3
135	Critical current in disk shaped YBaCuO films determined by an inductive method. Superconductor Science and Technology, 1992, 5, S403-S406.	1.8	4
136	Electromagnetic instabilities and current structures in anisotropic superconductors. Physical Review B, 1992, 46, 3638-3656.	1.1	27
137	Nonlocal Josephson electrostatics and pinning in superconductors. Physical Review B, 1992, 46, 3187-3190.	1.1	141
138	Transient regimes of flux creep in high-Tc superconductors. Physical Review B, 1991, 44, 12090-12093.	1.1	58
139	Contactless measurement of voltage-current characteristics of high-Tc thin film superconductors. Physica C: Superconductivity and Its Applications, 1991, 174, 14-22.	0.6	45
140	Percolation and Flux Creep in High-Temperature Superconductors. Europhysics Letters, 1991, 15, 789-794.	0.7	18
141	Magnetic flux creep as a percolation phenomenon. Superconductor Science and Technology, 1991, 4, S91-S93.	1.8	13
142	Investigation of superconducting filament non-uniformities by an electrical method. Cryogenics, 1990, 30, 883-888.	0.9	0
143	Fragmentation of magnetic flux in anisotropic superconductors. Physical Review Letters, 1990, 65, 3197-3200.	2.9	25
144	Distribution of pinning energies and the resistive transition in superconducting films. Physical Review B, 1990, 42, 4857-4860.	1.1	44

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145	Magnetic field and temperature dependence of flux creep in oriented grained and single-crystalline YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> . Journal of Applied Physics, 1990, 68, 3498-3503.	1.1	25
146	Quench energies of composite superconductors. Cryogenics, 1989, 29, 188-190.	0.9	10
147	Superconducting glassy state induced by twins. Physica C: Superconductivity and Its Applications, 1989, 162-164, 233-234.	0.6	0
148	Motion of a kink in a bistable medium with hysteresis. Physica D: Nonlinear Phenomena, 1989, 35, 382-394.	1.3	4
149	Influence of the Surface Irregularity on the Bean-Livingston Barrier in Type II Superconductors. Physica Status Solidi (B): Basic Research, 1988, 145, K47.	0.7	3
150	Self-heating in normal metals and superconductors. Reviews of Modern Physics, 1987, 59, 941-999.	16.4	319
151	On dissipative structures in nonuniform media. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 109, 405-407.	0.9	1
152	Localization of nonlinear waves in randomly inhomogeneous media. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 105, 31-33.	0.9	9
153	Origination and oscillations of normal zone in superconductors. IEEE Transactions on Magnetics, 1983, 19, 236-239.	1.2	3
154	On the theory of normal zone propagation in superconductors. IEEE Transactions on Magnetics, 1981, 17, 220-223.	1.2	5
155	Asymmetry of the normal zone propagation velocity in superconductors. Cryogenics, 1981, 21, 102-104.	0.9	4
156	Thermomagnetic effects, stability and oscillations in the critical state in hard superconductors. Journal Physics D: Applied Physics, 1981, 14, 1129-1138.	1.3	0