

Boris Maiorov

List of Publications by Year in descending order

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124
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87723

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docs citations

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times ranked

2600
citing authors

#	ARTICLE	IF	CITATIONS
1	Strongly enhanced current densities in superconducting coated conductors of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x} + \text{BaZrO}_3$. Nature Materials, 2004, 3, 439-443.	13.3	1,118
2	Materials science challenges for high-temperature superconducting wire. Nature Materials, 2007, 6, 631-642.	13.3	670
3	Synergetic combination of different types of defect to optimize pinning landscape using BaZrO_3 -doped $\text{YBa}_2\text{Cu}_3\text{O}_7$. Nature Materials, 2009, 8, 398-404.	13.3	496
4	Angular-dependent vortex pinning mechanisms in $\text{YBa}_2\text{Cu}_3\text{O}_7$ coated conductors and thin films. Applied Physics Letters, 2004, 84, 2121-2123.	1.5	254
5	Overcoming the barrier to 1000 \AA -cm width superconducting coatings. Applied Physics Letters, 2005, 87, 162505.	1.5	182
6	Progress in Nanoengineered Microstructures for Tunable High-Current, High-Temperature Superconducting Wires. Advanced Materials, 2008, 20, 391-407.	11.1	162
7	Systematic enhancement of in-field critical current density with rare-earth ion size variance in superconducting rare-earth barium cuprate films. Applied Physics Letters, 2004, 84, 5329-5331.	1.5	127
8	Self-assembled, rare earth tantalate pyrochlore nanoparticles for superior flux pinning in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films. Superconductor Science and Technology, 2009, 22, 022001.	1.8	109
9	Pseudoisotropic Upper Critical Field in Cobalt-Doped SrFe_2As_2 Films. Physical Review Letters, 2009, 102, 117004.	2.9	104
10	Identification of Intrinsic ab-Plane Pinning in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Films and Coated Conductors. IEEE Transactions on Applied Superconductivity, 2005, 15, 2808-2811.	1.1	103
11	Improved flux pinning in $\text{YBa}_2\text{Cu}_3\text{O}_7$ with nanorods of the double perovskite Ba_2YNbO_6 . Superconductor Science and Technology, 2010, 23, 055201.	1.8	99
12	Mixed pinning landscape in nanoparticle-introduced $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin films. Applied Physics Letters, 2009, 95, 162505.	1.1	95
13	Second Generation HTS Wire Based on RABiTS Substrates and MOD YBCO. IEEE Transactions on Applied Superconductivity, 2005, 15, 2611-2616.	1.1	92
14	Understanding High Critical Currents in $\text{YBa}_2\text{Cu}_3\text{O}_7$ Thin Films and Coated Conductors. Journal of Low Temperature Physics, 2004, 135, 87-98.	0.6	84
15	Progress in Performance Improvement and New Research Areas for Cost Reduction of 2G HTS Wires. IEEE Transactions on Applied Superconductivity, 2011, 21, 3049-3054.	1.1	83
16	Strongly enhanced flux pinning in one-step deposition of $\text{BaFe}_2(\text{As}_{0.66}\text{P}_{0.33})_2$ superconductor films with uniformly dispersed BaZrO_3 nanoparticles. Nature Communications, 2013, 4, 2499.	5.8	83
17	Influence of crystalline texture on vortex pinning near the ab-plane in $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin films and coated conductors. Physica C: Superconductivity and Its Applications, 2004, 412-414, 976-982.	0.6	76
18	Correlated enhancement of H_{c2} and J_c in carbon nanotube doped MgB_2 . Superconductor Science and Technology, 2007, 20, L12-L15.	1.8	74

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19	Rare earth ion size effects and enhanced critical current densities in $Y_2\text{Fe}_{17}\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ coated conductors. Applied Physics Letters, 2005, 86, 032505.	1.5	65
20	Anomalous Proximity Effect in Underdoped $Y\text{Ba}_2\text{Cu}_3\text{O}_{6+x}$ Josephson Junctions. Physical Review Letters, 2000, 85, 3708-3711.	2.9	60
21	Microstructural and superconducting properties of high current metal-organic chemical vapor deposition $Y\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ coated conductor wires. Influence of random point defects introduced by proton irradiation on critical current density and vortex dynamics of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{O}_{7-x}$ films. Superconductor Science and Technology, 2015, 28, 045025.	1.8	60
22	YBCO films grown by reactive co-evaporation on simplified IBAD-MgO coated conductor templates. Superconductor Science and Technology, 2010, 23, 014018.	1.1	58
23	Tuning nanoparticle size for enhanced functionality in perovskite thin films deposited by metal organic deposition. NPG Asia Materials, 2017, 9, e447-e447.	1.8	57
24	SiC and carbon nanotube distinctive effects on the superconducting properties of bulk MgB_2 . Journal of Applied Physics, 2008, 103, 023907.	3.8	57
25	The effects of density and size of BaMO_3 ($M=\text{Zr}, \text{Nb}, \text{Sn}$) nanoparticles on the vortex glassy and liquid phase in $(Y,\text{Gd})\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ coated conductors. Superconductor Science and Technology, 2013, 26, 035008.	1.1	56
26	Influence of naturally grown nanoparticles at the buffer layer in the flux pinning in $Y\text{Ba}_2\text{Cu}_3\text{O}_7$ coated conductors. Superconductor Science and Technology, 2006, 19, 891-895.	1.8	55
27	Thickness dependence of critical current density in $Y\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ films with BaZrO_3 and $Y_2\text{O}_3$ addition. Superconductor Science and Technology, 2009, 22, 085013.	1.8	54
28	Resonant ultrasound spectroscopy: The essential toolbox. Review of Scientific Instruments, 2019, 90, 121401.	1.8	53
29	Influence of growth temperature on critical current and magnetic flux pinning structures in $Y\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$. Applied Physics Letters, 2007, 91, 162501.	0.6	50
30	Strong pinning and elastic to plastic vortex crossover in Na-doped CaFeAs_2 single crystals. Physical Review B, 2013, 84, 020407.	1.5	46
31	The effect of lattice strain on the diameter of BaZrO_3 nanorods in epitaxial $Y\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ films. Superconductor Science and Technology, 2014, 27, 044010.	1.1	46
32	Liquid vortex phase and strong c -axis pinning in low anisotropy $\text{BaCo}_2\text{FeAs}_2$ pnictide films. Superconductor Science and Technology, 2011, 24, 055007.	1.8	45
33	High critical currents by isotropic magnetic-flux-pinning centres in a $3\ \mu\text{m}$ -thick $Y\text{Ba}_2\text{Cu}_3\text{O}_7$ superconducting coated conductor. Superconductor Science and Technology, 2007, 20, L20-L23.	1.8	44
34	Interfacial Strain-Induced Oxygen Disorder as the Cause of Enhanced Critical Current Density in Superconducting Thin Films. Advanced Functional Materials, 2009, 19, 835-841.	1.8	42
35	1000 A cm^{-2} in a $2\ \mu\text{m}$ thick $Y\text{Ba}_2\text{Cu}_3\text{O}_7$ film with BaZrO_3 and Y_2O_3 additions. Superconductor Science and Technology, 2010, 23, 115016.	7.8	42
36		1.8	42

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37	Universal lower limit on vortex creep in superconductors. Nature Materials, 2017, 16, 409-413.	13.3	41
38	Progress in scale-up of second-generation high-temperature superconductors at SuperPower Inc. Physica C: Superconductivity and Its Applications, 2005, 426-431, 849-857.	0.6	39
39	Composition and concentration of pinning by extrinsic point-like defects and intrinsic strong columnar defects in BaFe ₂ As ₂ High-temperature change of the creep rate in YBa ₂ Cu ₃ O _{7-x} nanocomposite films. Journal of Applied Physics, 2006, 100, 053904.	1.1	39
40	High-temperature change of the creep rate in YBa ₂ Cu ₃ O _{7-x} nanocomposite films. Journal of Applied Physics, 2006, 100, 053904.	1.1	37
41	Microstructure and transport properties of Y-rich YBa ₂ Cu ₃ O _{7-x} thin films. Journal of Applied Physics, 2006, 100, 053904.	1.1	36
42	Magnetoresistance in polymer-assisted deposited Sr- and Ca-doped lanthanum manganite films. Applied Physics Letters, 2006, 88, 232510.	1.5	33
43	Effect of the misalignment between the applied and internal magnetic fields on the critical currents of tilted coated conductors. Applied Physics Letters, 2005, 86, 132504.	1.5	32
44	Upward shift of the vortex solid phase in high-temperature-superconducting wires through high density nanoparticle addition. Scientific Reports, 2016, 6, 20436.	1.6	32
45	Control of Flux Pinning in MOD YBCO Coated Conductor. IEEE Transactions on Applied Superconductivity, 2007, 17, 3347-3350.	1.1	31
46	Self-assembled multilayers and enhanced superconductivity in (YBa ₂ Cu ₃ O _{7-x}) _{0.5} :(BaZrO ₃) _{0.5} nanocomposite films. Journal of Applied Physics, 2009, 106, .	1.1	31
47	Comparative Study of REBa ₂ Cu ₃ O _{7-x} Films for Coated Conductors. IEEE Transactions on Applied Superconductivity, 2005, 15, 2723-2726.	1.1	30
48	Vortex liquid-glass transition up to 60 T in nanoengineered coated conductors grown by metal organic deposition. Applied Physics Letters, 2010, 96, .	1.5	30
49	Upper critical field and thermally activated flux flow in single-crystalline REBa ₂ Cu ₃ O _{7-x} films. Applied Physics Letters, 2010, 96, .	1.1	30
50	The role of interfacial defects in enhancing the critical current density of YBa ₂ Cu ₃ O _{7-x} coatings. Superconductor Science and Technology, 2009, 22, 125002.	1.8	28
51	Doping-dependent nonlinear Meissner effect and spontaneous currents in high-T _c superconductors. Physical Review B, 2005, 71, .	1.1	27
52	Vortex pinning landscape in YBa ₂ Cu ₃ O ₇ films grown by hybrid liquid phase epitaxy. Superconductor Science and Technology, 2007, 20, S223-S229.	1.8	27
53	Much simplified ion-beam assisted deposition-TiN template for high-performance coated conductors. Journal of Applied Physics, 2010, 108, .	1.1	27
54	Origin of the multiple configurations that drive the response of $\hat{\gamma}$ -plutonium's elastic moduli to temperature. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11158-11161.	3.3	27

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55	Doping on structural and superconducting properties in $\text{Ca}_{1-x}\text{Na}_x\text{FeAs}_2$	1.1	25
56	Skyrmion Lattice Topological Hall Effect near Room Temperature. Scientific Reports, 2018, 8, 15510.	1.6	25
57	Influence of Tilted Geometries on Critical Current in Superconducting Thin Films. IEEE Transactions on Applied Superconductivity, 2005, 15, 2582-2585.	1.1	24
58	Angular and field properties of the critical current and melting line of Co-doped SrFe_2As_2 epitaxial films. Superconductor Science and Technology, 2009, 22, 125011.	1.8	23
59	Interrelation between persistent photoconductivity and oxygen order in $\text{GdBa}_2\text{Cu}_3\text{O}_x$ thin films. Physical Review B, 1997, 56, 3552-3555.	1.1	22
60	Magnetic ordering in the frustrated chain candidate $\text{J}_1\text{BaNd}_2\text{O}_4$	1.1	22
61	The role of stacking faults in the critical current density of MOD films through a thickness dependence study. Superconductor Science and Technology, 2009, 22, 015022.	1.8	21
62	Annealing disorder and photoinduced order of oxygen chains in detwinned $\text{YBa}_2\text{Cu}_3\text{O}_{6.65}$ single crystals probed by Raman scattering. Physical Review B, 2000, 61, 4298-4304.	1.1	20
63	Mixed-Valence Perovskite Thin Films by Polymer-Assisted Deposition. Journal of the American Ceramic Society, 2008, 91, 1858-1863.	1.9	20
64	Improved microstructure and enhanced low-field c in $(\text{Y}_{0.67}\text{Eu}_{0.33})\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$ films. Superconductor Science and Technology, 2008, 21, 025001.	1.8	20
65	Interactive Growth Effects of Rare Earth Nanoparticles on Nanorod Formation in $\text{YBa}_2\text{Cu}_3\text{O}_x$ Thin Films. Advanced Functional Materials, 2013, 23, 4826-4831.	7.8	20
66	Guidelines for optimizing random and correlated pinning in rare-earth-based superconducting films. Superconductor Science and Technology, 2006, 19, S55-S59.	1.8	19
67	Smectic Vortex Phase in Optimally Doped $\text{YBa}_2\text{Cu}_3\text{O}_7$ Thin Films. Physical Review Letters, 2008, 100, 027004.	2.9	19
68	Effects of the Variable Lorentz Force on the Critical Current in Anisotropic Superconducting Thin Films. IEEE Transactions on Applied Superconductivity, 2007, 17, 3697-3700.	1.1	17
69	CuO	1.1	17
70	Rare-earth dependence of photoinduced chain-oxygen ordering in $\text{RBa}_2\text{Cu}_3\text{O}_{7-x}$ ($x \sim 0.3$) investigated by Raman scattering. Physical Review B, 2001, 65, .	1.1	16
71	Elastic-to-plastic crossover below the peak effect in the vortex solid of $\text{YBa}_2\text{Cu}_3\text{O}_7$ single crystals. Physical Review B, 2002, 65, .	1.1	16
72	Anisotropic magnetocrystalline coupling of the skyrmion lattice in MnSi . Physical Review B, 2018, 97, .	1.1	16

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73	High temperature mechanical properties of fluorite crystal structured materials (CeO ₂ , ThO ₂ , and) Tj ETQq1 1 0.784314 rgBT /Overlook 554, 153035.	1.3	16
74	High critical current densities in YBa ₂ Cu ₃ O _{7-x} films grown at high rates by hybrid liquid phase epitaxy. Applied Physics Letters, 2005, 87, 252507.	1.5	15
75	Vortex creep in TFAâ€“YBCO nanocomposite films. Superconductor Science and Technology, 2014, 27, 115008.	1.8	15
76	Microstructural Evolution With the Change in Thickness of Superconducting Films. IEEE Transactions on Applied Superconductivity, 2007, 17, 3243-3246.	1.1	14
77	Direct Visualization of Current-Stimulated Oxygen Migration in YBa ₂ Cu ₃ O _{7-x} Thin Films. ACS Nano, 2020, 14, 11765-11774.	7.3	14
78	Hole-doping dependence of percolative phase separation in Pr _{0.5} Ca _{0.2} Sr _{0.3} MnO ₃ around half doping. Physical Review B, 2002, 66, .	1.1	13
79	Light-induced oxygen-ordering dynamics in (Y,Pr)Ba ₂ Cu ₃ O _{6.7} : A Raman spectroscopy and Monte Carlo study. Physical Review B, 2004, 70, .	1.1	13
80	Vortex solid state in YBa ₂ Cu ₃ O _{7-x} twinned crystals. Physical Review B, 2001, 64, .	1.1	12
81	Structural and superconducting properties of (Y,Gd)Ba ₂ Cu ₃ O _{7-x} grown by MOCVD on samarium zirconate buffered IBAD-MgO. Superconductor Science and Technology, 2008, 21, 105023.	1.8	12
82	Composite $\{Y_2O_3-Al_2O_3\}$ as Diffusion Barrier/Nucleation Layer for HTS Coated Conductors Based on IBAD MgO. IEEE Transactions on Applied Superconductivity, 2009, 19, 3459-3462.	1.1	12
83	First-order phase transition of the vortex lattice in twinned YBa ₂ Cu ₃ O ₇ single crystals in tilted magnetic fields. Physical Review B, 2000, 61, 12427-12432.	1.1	11
84	High current, low cost YBCO conductorsâ€”whatâ€™s next?. Superconductor Science and Technology, 2010, 23, 034009.	1.8	11
85	Increment of the collective pinning energy in Na _{1-x} Ca _x Fe ₂ As ₂ single crystals with random point defects introduced by proton irradiation. Superconductor Science and Technology, 2014, 27, 095004.	1.8	11
86	Elastic moduli of ¹³⁹ Pu-239 reveal aging in real time. Journal of Applied Physics, 2017, 121, 125107. Intrinsic anisotropy versus effective pinning anisotropy in	1.1	11
87	xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>YB</mml:mi><mml:msub><mml:mi>a</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>C</mml:mi><mml:msub><mml:mi>u</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math> thin	1.1	11
88	Skyrmion lattice creep at ultra-low current densities. Communications Materials, 2020, 1, .	2.9	11
89	Photoinduced superconducting nanowires in GdBa ₂ Cu ₃ O _{6.5} films. Applied Physics Letters, 1998, 73, 120-122.	1.5	10
90	Ultrafine Multilayers of Complex Metal Oxide Films. Advanced Materials, 2007, 19, 1917-1920.	11.1	10

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91	Investigation of (Y,Gd)Ba ₂ Cu ₃ O _{7-x} grown by MOCVD on a simplified IBAD MgO template. Superconductor Science and Technology, 2010, 23, 014011.	1.8	10
92	Inversion of the upper critical field anisotropy in FeTeS films. Superconductor Science and Technology, 2014, 27, 044005.	1.8	10
93	Determining elastic anisotropy of textured polycrystals using resonant ultrasound spectroscopy. Journal of Materials Science, 2021, 56, 10053-10073.	1.7	10
94	Oxygen overdoping in superconducting and non-superconducting Y _{1-x} Pr _x Ba ₂ Cu ₃ O _y . Physica B: Condensed Matter, 2002, 320, 333-336.	1.3	9
95	Persistent photo-excitation in GdBa ₂ Cu ₃ O _{6.5} in a simultaneous Raman and electrical-transport experiment. Physical Review B, 2005, 72, .	1.1	9
96	Study of $\{m\text{Sm}\}_{m\text{x}}\{m\text{Zr}\}_{1-m\text{x}}\{m\text{O}\}_{m\text{y}}$ Buffer Layer and Its Effects on YBCO Properties. IEEE Transactions on Applied Superconductivity, 2007, 17, 3409-3412.	1.1	9
97	Attenuation of interfacial pinning enhancement in YBCO using a PrBCO buffer layer. Physica C: Superconductivity and Its Applications, 2009, 469, 2033-2036.	0.6	8
98	Nanorod Self-Assembly in High J _c YBa ₂ Cu ₃ O _{7-x} Films with Ru-Based Double Perovskites. Materials, 2011, 4, 2042-2056.	1.3	8
99	Strong enhancement of the critical current at the antiferromagnetic transition in ErNi ₂ B ₂ C single crystals. Physical Review B, 2013, 87, .	1.1	8
100	Characterization of Er-Added YBCO Coated Conductor Produced by Metal Organic Deposition (MOD). IEEE Transactions on Applied Superconductivity, 2007, 17, 3359-3362.	1.1	7
101	Dynamics and Critical Currents in Fast Superconducting Vortices at High pulsed Magnetic Fields. Physical Review Applied, 2019, 11, .	1.5	7
102	Comparative Study of Microstructural Properties for YBa ₂ Cu ₃ O ₇ Films on Single-crystal and Ni-based Metal Substrates. Journal of Materials Research, 2005, 20, 2055-2060.	1.2	6
103	Key Microstructural Features of MOD $\{m\text{YBa}\}_2\{m\text{Cu}\}_3\{m\text{O}\}_{7-\text{partial}}$ Films on Textured Nickel Substrates. IEEE Transactions on Applied Superconductivity, 2007, 17, 3259-3262.	1.1	6
104	$\{m\text{YBa}\}_2\{m\text{Cu}\}_3\{m\text{O}\}_7$ Coated Conductor Grown by Hybrid Liquid Phase Epitaxy. IEEE Transactions on Applied Superconductivity, 2007, 17, 2537-2541.	1.1	6
105	High _c YBa ₂ Cu ₃ O _{7-x} films grown at very high rates by liquid assisted growth incorporating lightly Au-doped SrTiO ₃ buffers. Superconductor Science and Technology, 2009, 22, 015009.	1.8	6
106	Observation of lock-in phenomena in heavy-ion-irradiated single crystal of Ba(Fe _{0.93} Co _{0.07}) ₂ As ₂ . Physical Review B, 2014, 89, .	1.1	6
107	High anisotropic critical current densities in MgB ₂ tapes. Journal of Physics: Conference Series, 2008, 97, 012129.	0.3	5
108	SINGLE-WALL CARBON NANOTUBES ADDITION EFFECTS ON THE SUPERCONDUCTING PROPERTIES OF MgB ₂ . International Journal of Modern Physics B, 2009, 23, 3465-3469.	1.0	5

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109	High J_c in YBCO Films Grown at Very High Rates by Liquid Mediated Growth. IEEE Transactions on Applied Superconductivity, 2009, 19, 3180-3183.	1.1	5
110	Reply to Janoschek et al.: The excited $\hat{\Gamma}$ -phase of plutonium. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E269.	3.3	5
111	The role of thermally and chemically stable composite Y ₂ O ₃ :Al ₂ O ₃ in the development of YBa ₂ Cu ₃ O _{7-x} films on metal substrates. Superconductor Science and Technology, 2010, 23, 045012.	1.8	4
112	Comment on "Strong Vortex Liquid Correlation from Multiterminal Measurements on Untwinned YBa ₂ Cu ₃ O _{7-x} Single Crystals". Physical Review Letters, 2002, 88, 139703; author reply 139704.	2.9	3
113	$\frac{J_c}{J_{c0}} = \frac{1}{1 + \left(\frac{H}{H_{c2}}\right)^2}$ Cu	1.1	3
114	Magnetoelastic standing waves induced in UO ₂ by microsecond magnetic field pulses. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	3
115	Raman-study of photoinduced chain-oxygen ordering in RBa ₂ Cu ₃ O _{7-δ} . IEEE Transactions on Applied Superconductivity, 2003, 13, 3192-3195.	1.1	2
116	Bose-Glass-Like Phases in Oriented-Twin YBa ₂ Cu ₃ O _{7-x} Crystals. Journal of Low Temperature Physics, 2004, 135, 131-134.	0.6	2
117	Hall effect in La _{0.6} Sr _{0.4} MnO ₃ thin films. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1836-1838.	1.0	2
118	Engineered reactive cosputtered Sm _x Zr _{1-x} O _y thin films as buffer layers for YBa ₂ Cu ₃ O _{7-x} coated conductors. Journal of Materials Research, 2007, 22, 1082-1086.	1.2	2
119	Nanostructured epitaxial thin films of Fe-based superconductors with enhanced superconducting properties. Materials Research Society Symposia Proceedings, 2012, 1434, 35.	0.1	2
120	Materials science challenges for high-temperature superconducting wire. , 2010, , 299-310.		1
121	A new scaling approach and quantitative angular critical current measurement using magnetization. Superconductor Science and Technology, 2016, 29, 030501.	1.8	1
122	Asymmetric phase diagram and phase separation in. Physica B: Condensed Matter, 2002, 320, 111-114.	1.3	0
123	Comparison of Different Routes for Improving Vortex Pinning in YBa ₂ Cu ₃ O ₇ Thin Films and Coated Conductors. AIP Conference Proceedings, 2006, , .	0.3	0
124	Strongly enhanced current densities in superconducting coated conductors of YBa ₂ Cu ₃ O _{7-x} + BaZrO ₃ . , 2010, , 327-331.		0