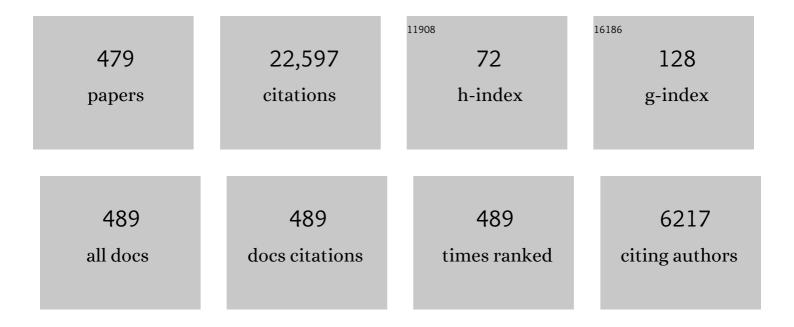
## David C Larbalestier

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Analysis of local burnout in a sub-scale test coil for the 32 T magnet after spontaneous quenches during fast ramping. Superconductor Science and Technology, 2022, 35, 075009.	1.8	6
2	Influence of twist pitch on hysteretic losses and transport J <sub> c </sub> in overpressure processed high J <sub> c </sub> Bi-2212 round wires. Superconductor Science and Technology, 2022, 35, 064004.	1.8	6
3	A Real-Time Monitoring System for Investigating Electromagnetic Behaviors of an HTS Coil. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	9
4	Optimizing vortex pinning in YBa2Cu3O7-x superconducting films up to high magnetic fields. Communications Materials, 2022, 3, .	2.9	7
5	Effect of heat treatments on superconducting properties and connectivity in K-doped BaFe2As2. Scientific Reports, 2021, 11, 3143.	1.6	6
6	Correlation of critical current density to quasi-biaxial texture and grain boundary cleanliness in fully dense Bi-2212 wires. Superconductor Science and Technology, 2021, 34, 035018.	1.8	11
7	Conundrum of strongly coupled supercurrent flow in both under- and overdoped Bi-2212 round wires. Physical Review Materials, 2021, 5, .	0.9	5
8	Critical Current Distributions of Recent Bi-2212 Round Wires. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-6.	1.1	10
9	Effects of Wire Diameter and Filament Size on the Processing Window of Bi-2212 Round Wire. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-6.	1.1	11
10	Origin of the enhanced Nb3Sn performance by combined Hf and Ta doping. Scientific Reports, 2021, 11, 17845.	1.6	15
11	Influence of strain-driven segregation in low-angle grain boundaries on critical current density of Y0.9Nd0.1Ba2Cu3O7-d. Superconductor Science and Technology, 2021, 34, 025008.	1.8	2
12	Understanding quench in no-insulation (NI) REBCO magnets through experiments and simulations. Superconductor Science and Technology, 2020, 33, 035002.	1.8	41
13	Process to densify Bi2Sr2CaCu2O X round wire with overpressure before coil winding and final overpressure heat treatment. Superconductor Science and Technology, 2020, 33, 025010.	1.8	6
14	Evidence of Kramer extrapolation inaccuracy for predicting high field Nb3Sn properties. Journal of Physics: Conference Series, 2020, 1559, 012062.	0.3	1
15	The Effect of Reinforcement Substrate Alloy Selection on Mechanical Properties of REBCO Coated Conductors. IOP Conference Series: Materials Science and Engineering, 2020, 756, 012023.	0.3	0
16	A study on the extent of Ag protrusions in different TiO2-coated Bi-2212 wires. IOP Conference Series: Materials Science and Engineering, 2020, 756, 012017.	0.3	1
17	A CORC <sup>®</sup> cable insert solenoid: the first high-temperature superconducting insert magnet tested at currents exceeding 4 kA in 14 T background magnetic field. Superconductor Science and Technology, 2020, 33, 05LT03.	1.8	44
18	Synthesis routes to eliminate oxide impurity segregation and their influence on intergrain connectivity in K-doped BaFe <sub>2</sub> As <sub>2</sub> polycrystalline bulks. Superconductor Science and Technology, 2020, 33, 084010.	1.8	14

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19	Development of general expressions for the temperature and magnetic field dependence of the critical current density in coated conductors with variable properties. Superconductor Science and Technology, 2020, 33, 044011.	1.8	18
20	Design and Performance Estimation of a 20 T 46 mm No-Insulation All-REBCO User Magnet. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	5
21	The 40 T Superconducting Magnet Project at the National High Magnetic Field Laboratory. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	54
22	Influence of variable Ca-doping on the critical current density of low-angle grain boundaries in YBa2Cu3O7â^'d. Journal of Applied Physics, 2020, 128, .	1,1	3
23	Analyses of the plastic deformation of coated conductors deconstructed from ultra-high field test coils. Superconductor Science and Technology, 2020, 33, 095012.	1.8	50
24	Chemically degraded grain boundaries in fine-grain Ba <sub>0.6</sub> K <sub>0.4</sub> Fe <sub>2</sub> As <sub>2</sub> polycrystalline bulks. Applied Physics Express, 2020, 13, 113002.	1.1	9
25	Investigation of Precipitation and Segregation of Secondary Phase Byproducts in Intermetallic Superconducting Materials. Microscopy and Microanalysis, 2019, 25, 2246-2247.	0.2	0
26	Stable, predictable and training-free operation of superconducting Bi-2212 Rutherford cable racetrack coils at the wire current density of 1000 A/mm2. Scientific Reports, 2019, 9, 10170.	1.6	52
27	Ta, Ti and Hf effects on Nb <sub>3</sub> Sn high-field performance: temperature-dependent dopant occupancy and failure of Kramer extrapolation. Superconductor Science and Technology, 2019, 32, 124003.	1.8	18
28	Investigation of the melt-growth process of YbBa <sub>2</sub> Cu <sub>3</sub> O <sub>7â^îí</sub> powder in Ag-sheathed tapes. CrystEngComm, 2019, 21, 1369-1377.	1.3	1
29	45.5-tesla direct-current magnetic field generated with a high-temperature superconducting magnet. Nature, 2019, 570, 496-499.	13.7	432
30	An Integrated Coil Form Test Coil Design for High Current REBCO DC Solenoids. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	6
31	Design of Strain-Limited Bi-2223 Insert Coils for High-Field Magnets. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.1	1
32	High-Performance Bi-2212 Round Wires Made With Recent Powders. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	49
33	Prediction of the J <sub>C</sub> (B) Behavior of Bi-2212 Wires at High Field. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.1	6
34	Beneficial influence of Hf and Zr additions to Nb4at%Ta on the vortex pinning of Nb <sub>3</sub> Sn with and without an O source. Superconductor Science and Technology, 2019, 32, 044006.	1.8	42
35	Optimization of a Novel Melt-Growth Heat Treatment of YbBa2Cu3O7-Î′ /Ag Tapes. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4.	1.1	0
36	Double-Disordered HTS-Coated Conductors and Their Assemblies Aimed for Ultra-High Fields: Large Area Tapes. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.	1.1	20

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37	Effect of <i>î±</i> -particle irradiation on a NdFeAs(O,F) thin film. Superconductor Science and Technology, 2018, 31, 034002.	1.8	7
38	Very-high thermal and electrical conductivity in overpressure-processed Bi2Sr2CaCu2O8+x wires. Materials Research Express, 2018, 5, 056001.	0.8	13
39	Fabrication and Testing of a Bi-2223 Test Coil for High Field NMR Magnets. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4.	1.1	5
40	Evidence from EXAFS for Different Ta/Ti Site Occupancy in High Critical Current Density Nb3Sn Superconductor Wires. Scientific Reports, 2018, 8, 4798.	1.6	15
41	An intermetallic powder-in-tube approach to increased flux-pinning in Nb <sub>3</sub> Sn by internal oxidation of Zr. Superconductor Science and Technology, 2018, 31, 014002.	1.8	15
42	Evidence for preferential flux flow at the grain boundaries of superconducting RF-quality niobium. Superconductor Science and Technology, 2018, 31, 045001.	1.8	4
43	Controlling Cu–Sn mixing so as to enable higher critical current densities in RRP <sup>A®</sup> Nb <sub>3</sub> Sn wires. Superconductor Science and Technology, 2018, 31, 064001.	1.8	33
44	Tripled critical current in racetrack coils made of Bi-2212 Rutherford cables with overpressure processing and leakage control. Superconductor Science and Technology, 2018, 31, 105009.	1.8	26
45	Development of a persistent superconducting joint between Bi-2212/Ag-alloy multifilamentary round wires. Superconductor Science and Technology, 2017, 30, 025020.	1.8	18
46	An Experimental and Analytical Study of Periodic and Aperiodic Fluctuations in the Critical Current of Long Coated Conductors. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	17
47	Experimental Study of Potential Heat Treatment Issues of Large Bi-2212 Coils. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	12
48	Method for generating linear current-field characteristics and eliminating charging delay in no-insulation superconducting magnets. Superconductor Science and Technology, 2017, 30, 035020.	1.8	16
49	Bi-2223 Test Coils for High-Resolution NMR Magnets. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	14
50	J e (4.2 K, 31.2 T) beyond 1 kA/mm2 of a ~3.2 μm thick, 20 mol% Zr-added MOCVD REBCO Scientific Reports, 2017, 7, 6853.	coated cor	nductor.
51	Development of low angle grain boundaries in lightly deformed superconducting niobium and their influence on hydride distribution and flux perturbation. Journal of Applied Physics, 2017, 121, .	1.1	15
52	Effects of Filament Size on Critical Current Density in Overpressure Processed Bi-2212 Round Wire. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.1	22
53	Tensile properties and critical current strain limits of reinforced Bi-2212 conductors for high field magnets. IOP Conference Series: Materials Science and Engineering, 2017, 279, 012022.	0.3	6
54	Improvement of small to large grain A15 ratio in Nb <sub>3</sub> Sn PIT wires by inverted multistage heat treatments. IOP Conference Series: Materials Science and Engineering, 2017, 279, 012019.	0.3	11

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55	Effect of sheath material and reaction overpressure on Ag protrusions into the TiO2insulation coating of Bi-2212 round wire. IOP Conference Series: Materials Science and Engineering, 2017, 279, 012021.	0.3	8
56	Development of Iron-based Superconducting Bulk Magnet. TEION KOGAKU (Journal of Cryogenics and) Tj ETQq	000 <u>8.1</u> gBT	/Overlock 10
57	Lattice location of Ta and Ti in doped Nb3Sn. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C872-C872.	0.0	0
58	Record current density of 344 A mm <sup>â^'2</sup> at 4.2 K and 17 T in CORC <sup>®</sup> accelerator magnet cables. Superconductor Science and Technology, 2016, 29, 055009.	1.8	59
59	Understanding the densification process of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <i><sub>x</sub></i> round wires with overpressure processing and its effect on critical current density. Superconductor Science and Technology, 2016, 29, 105005.	1.8	19
60	Evaluation of critical current density and residual resistance ratio limits in powder in tube Nb <sub>3</sub> Sn conductors. Superconductor Science and Technology, 2016, 29, 085003.	1.8	30
61	Sample and length-dependent variability of 77 and 4.2 K properties in nominally identical RE123 coated conductors. Superconductor Science and Technology, 2016, 29, 054006.	1.8	31
62	Correlation of filament distortion and RRR degradation in drawn and rolled PIT and RRP Nb <sub>3</sub> Sn wires. Superconductor Science and Technology, 2016, 29, 084008.	1.8	8
63	Intrinsic and extrinsic pinning in NdFeAs(O,F): vortex trapping and lock-in by the layered structure. Scientific Reports, 2016, 6, 36047.	1.6	35
64	Metallographic autopsies of full-scale ITER prototype cable-in-conduit conductors after full cyclic testing in SULTAN: III. The importance of strand surface roughness in long twist pitch conductors. Superconductor Science and Technology, 2016, 29, 074002.	1.8	18
65	Small grains: a key to high-field applications of granular Ba-122 superconductors?. Superconductor Science and Technology, 2016, 29, 025004.	1.8	44
66	Influence of the Oxygen Partial Pressure on the Phase Evolution During Bi-2212 Wire Melt Processing. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.1	8
67	Ceramic Insulation of Bi2Sr2CaCu2O8-x Round Wire for High-Field Magnet Applications. IEEE Transactions on Applied Superconductivity, 2016, , 1-1.	1.1	5
68	Significant enhancement of compositional and superconducting homogeneity in Ti rather than Ta-doped Nb3Sn. Applied Physics Letters, 2016, 108, .	1.5	22
69	Comparison of growth texture in round Bi2212 and flat Bi2223 wires and its relation to high critical current density development. Scientific Reports, 2015, 5, 8285.	1.6	74
70	Large grain CBMM Nb ingot slices: An ideal test bed for exploring the microstructure-electromagnetic property relationships relevant to SRF. AIP Conference Proceedings, 2015, , .	0.3	0
71	Study of grain boundary transparency in(Yb1â^'xCax)Ba2Cu3Obicrystal thin films over a wide temperature, field, and field orientation range. Physical Review B, 2015, 91, .	1.1	12
	Evidence of incomplete annealing at 800 ŰC and the effects of 120 ŰC baking on the crystal orientation		

Evidence of incomplete annealing at 800 A°C and the effects of 120 A°C baking on the crystal orientation
and the surface superconducting properties of cold-worked and chemically polished Nb.
Superconductor Science and Technology, 2015, 28, 075003.

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73	Development of TiO <sub>2</sub> electrical insulation coating on Ag-alloy sheathed Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8â^'<i>x</i></sub> round-wire. Superconductor Science and Technology, 2015, 28, 035010.	1.8	17
74	Critical current of dense Bi-2212 round wires as a function of axial strain. Superconductor Science and Technology, 2015, 28, 032001.	1.8	34
75	Composition and connectivity variability of the A15 phase in PIT Nb <sub>3</sub> Sn wires. Superconductor Science and Technology, 2015, 28, 095001.	1.8	21
76	Metallographic autopsies of full-scale ITER prototype cable-in-conduit conductors after full testing in SULTAN: 1. The mechanical role of copper strands in a CICC. Superconductor Science and Technology, 2015, 28, 085005.	1.8	15
77	Broad Temperature Pinning Study of 15 mol.% Zr-Added (Gd, Y)–Ba–Cu–O MOCVD Coated Conductors. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.1	12
78	Atomic and electronic structures of superconducting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mm Physical Review B, 2015, 91, .</mm </mml:msub></mml:mrow></mml:math 	l:mm≥2 <td>nm<b>8:</b>mn&gt;</td>	nm <b>8:</b> mn>
79	Broad temperature range study of <i>Jc</i> and <i>Hirr</i> anisotropy in YBa2Cu3Ox thin films containing either Y2O3 nanoparticles or stacking faults. Applied Physics Letters, 2015, 106, .	1.5	28
80	Demonstration of an iron-pnictide bulk superconducting magnet capable of trapping over 1 T. Superconductor Science and Technology, 2015, 28, 112001.	1.8	46
81	Metallographic autopsies of full-scale ITER prototype cable-in-conduit conductors after full cyclic testing in SULTAN: II. Significant reduction of strand movement and strand damage in short twist pitch CICCs. Superconductor Science and Technology, 2015, 28, 125003.	1.8	17
82	Engineering current density in excess of 200 A mmâ^'2at 20 T in CORC®magnet cables containing RE-Ba2Cu3O7â^´Î´tapes with 38μm thick substrates. Superconductor Science and Technology, 2015, 28, 124001.	1.8	31
83	Evidence for composition variations and impurity segregation at grain boundaries in high current-density polycrystalline K- and Co-doped BaFe2As2 superconductors. Applied Physics Letters, 2014, 105, .	1.5	21
84	Specific heat of Nb3Sn: The case for a single gap. APL Materials, 2014, 2, .	2.2	3
85	Strongly enhanced vortex pinning from 4 to 77 K in magnetic fields up to 31 T in 15 mol.% Zr-added (Gd,) Tj ETQ	q1_10.78 2.2	4314 rgBT  0 121
86	Observation of the Microstructure of Grain Boundary Oxides in Superconducting RF-Quality Niobium With High-Resolution TEM (Transmission Electron Microscope). IEEE Transactions on Applied Superconductivity, 2014, 24, 68-73.	1.1	8
87	Isotropic round-wire multifilament cuprate superconductor for generation of magnetic fields above 30 T. Nature Materials, 2014, 13, 375-381.	13.3	296
88	Examination of the trade-off between intrinsic and extrinsic properties in the optimization of a modern internal tin Nb <sub>3</sub> Sn conductor. Superconductor Science and Technology, 2014, 27, 065013.	1.8	36
89	An explanation of how split melt processing can enhance the critical current density of Bi2212 round wires based on examination of bubble size and density formed in the melt. Superconductor Science and Technology, 2014, 27, 055004.	1.8	17
90	Progress in the Development of a Superconducting 32 T Magnet With REBCO High Field Coils. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.1	126

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91	Aberration-Corrected S/TEM at Florida State University. Microscopy Today, 2014, 22, 42-49.	0.2	3
92	Development of very high Jc in Ba(Fe1-xCox)2As2 thin films grown on CaF2. Scientific Reports, 2014, 4, 7305.	1.6	45
93	The effect of axial and transverse loading on the transport properties of ITER Nb <sub>3</sub> Sn strands. Superconductor Science and Technology, 2013, 26, 084004.	1.8	65
94	Performance of titanium oxide–polymer insulation in superconducting coils made of Bi-2212/Ag-alloy round wire. Superconductor Science and Technology, 2013, 26, 075009.	1.8	19
95	Reduction of Gas Bubbles and Improved Critical Current Density in Bi-2212 Round Wire by Swaging. IEEE Transactions on Applied Superconductivity, 2013, 23, 6400206-6400206.	1.1	45
96	Artificially engineered superlattices of pnictide superconductors. Nature Materials, 2013, 12, 392-396.	13.3	70
97	Evidence for length-dependent wire expansion, filament dedensification and consequent degradation of critical current density in Ag-alloy sheathed Bi-2212 wires. Superconductor Science and Technology, 2013, 26, 055018.	1.8	21
98	Reversible and irreversible mechanical effects in real cable-in-conduit conductors. Superconductor Science and Technology, 2013, 26, 114004.	1.8	25
99	Facility Implementation and Comparative Performance Evaluation of Probe-Corrected TEM/STEM with Schottky and Cold Field Emission Illumination. Microscopy and Microanalysis, 2013, 19, 487-495.	0.2	9
100	Evidence that filament fracture occurs in an ITER toroidal field conductor after cyclic Lorentz force loading in SULTAN. Superconductor Science and Technology, 2012, 25, 075007.	1.8	47
101	Procedures for evaluating filament cracking during fatigue testing of Nb3Sn strand. AIP Conference Proceedings, 2012, , .	0.3	10
102	Observation of important current-limiting defects in a recent high pinning force MOCVD IBAD-MgO coated conductor. Superconductor Science and Technology, 2012, 25, 025002.	1.8	11
103	xmins:mmi="http://www.w3.org/1998/Math/Math/Math/MathWL_display="inline"> <mmi:msub><mmi:mrow /&gt;<mml:mn>3</mml:mn>nanorods at low-temperature in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"</mml:math </mmi:mrow </mmi:msub>		

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109	Dependence of Epitaxial \${m Ba}{({m Fe}_{1-{m x}}{m Co}_{m x})}_{2}{m As}_{2}\$ Thin Films Properties on \${m SrTiO}_{3}\$ Template Thickness. IEEE Transactions on Applied Superconductivity, 2011, 21, 2882-2886.	1.1	8
110	Evidence for long range movement of Bi-2212 within the filament bundle on melting and its significant effect on <i>J</i> <sub>c</sub> . Superconductor Science and Technology, 2011, 24, 075016.	1.8	31
111	Doubled critical current density in Bi-2212 round wires by reduction of the residual bubble density. Superconductor Science and Technology, 2011, 24, 082001.	1.8	71
112	Void and phase evolution during the processing of Bi-2212 superconducting wires monitored by combined fast synchrotron micro-tomography and x-ray diffraction. Superconductor Science and Technology, 2011, 24, 115004.	1.8	43
113	Bubble formation within filaments of melt-processed Bi2212 wires and its strongly negative effect on the critical current density. Superconductor Science and Technology, 2011, 24, 075009.	1.8	82
114	Properties of recent IBAD–MOCVD coated conductors relevant to their high field, low temperature magnet use. Superconductor Science and Technology, 2011, 24, 035001.	1.8	97
115	The behavior of grain boundaries in the Fe-based superconductors. Reports on Progress in Physics, 2011, 74, 124511.	8.1	127
116	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
117	Suppressed Superconductivity on the Surface of Superconducting RF Quality Niobium for Particle Accelerating Cavities. , 2011, , .		3
118	Magneto-Optical Study High-Purity Niobium for Superconducting RF Application. AIP Conference Proceedings, 2011, , .	0.3	9
119	Significant enhancement of upper critical fields by doping and strain in iron-based superconductors. Physical Review B, 2011 84 Superfluid density measurements of <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>1.1</td><td>135</td></mml:math>	1.1	135
120	display="inline"> <mml:mrow><mml:mi mathvariant="normal">Ba</mml:mi><mml:mo stretchy="false"&gt;(<mml:msub><mml:mi) (mathvariant="&lt;/td&gt;&lt;td&gt;" 0="" 10="" 307="" 50="" etqq0="" normal"="" overlock="" rgbt="" td="" tf="" tj=""> 1.1</mml:mi)></mml:msub></mml:mo </mml:mrow>	Co27	
121	Revie Anisotropy of the irreversibility field for Zr-doped (Y,Gd)Ba2Cu3O7â^xthin films up to 45 T. Physical Review B, 2011, 84, .	1.1	8
122	Evidence that the upper critical field of Nb3Sn is independent of whether it is cubic or tetragonal. Applied Physics Letters, 2011, 99, .	1.5	11
123	New Developments in \${m Nb}_{3}{m Sn}\$ PIT Strand: The Effects of Titanium and Second Phase Additions on the Superconducting Properties. IEEE Transactions on Applied Superconductivity, 2011, 21, 2546-2549.	1.1	1
124	Development of a Multifilament PIT \${m V}_{3}{m Ga}\$ Conductor for Fusion Applications. IEEE Transactions on Applied Superconductivity, 2011, 21, 2529-2532.	1.1	2
125	35.4 T field generated using a layer-wound superconducting coil made of (RE)Ba2Cu3O7â^'x (RE = rare) Tj ET	-Qq1 1 0.7 1.5	784314 rg8T 150
126	Self-assembled oxide nanopillars in epitaxial BaFe2As2 thin films for vortex pinning. Applied Physics Letters, 2011, 98, .	1.5	42

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127	Heat treatment control of Ag–Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub><i>x</i></sub> multifilamentary round wire: investigation of time in the melt. Superconductor Science and Technology, 2011, 24, 115009.	1.8	26
128	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
129	Evidence for electromagnetic granularity in polycrystalline Sm1111 iron-pnictides with enhanced phase purity. Superconductor Science and Technology, 2011, 24, 045010.	1.8	41
130	Superconductivity at 100—Where we've been and where we're going. MRS Bulletin, 2011, 36, 590-593.	1.7	3
131	Anisotropic in-plane reversible strain effect in Y <sub>0.5</sub> Gd <sub>0.5</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7 â^ î</sub> coated conductors. Superconductor Science and Technology, 2011, 24, 115010.	1.8	31
132	Relationship between Current Transport Properties and the Microstructure in a Random Polycrystalline Fe-Oxypnictide Bulk. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2010, 74, 444-452.	0.2	2
133	Template engineering of Co-doped BaFe2As2 single-crystal thin films. , 2010, , 321-326.		0
134	High-T <sub>c</sub> superconducting materials for electric power applications. , 2010, , 311-320.		644
135	New Fe-based superconductors: properties relevant for applications. Superconductor Science and Technology, 2010, 23, 034003.	1.8	253
136	Magnetic characterization of <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">altimg="si4.gif" overflow="scroll"&gt;<mml:mrow><mml:mtext>Ba</mml:mtext><mml:mo stretchy="false"&gt;(<mml:msub><mml:mrow><mml:mtext>Fe</mml:mtext></mml:mrow><mml:mrow></mml:mrow></mml:msub></mml:mo </mml:mrow></mml:math>	< <b>om</b> eni:mn:	> <b>0</b> .9
137	Superconductivity and Its Applications, 2010, 470, S397-S398. Disorder induced effects on the critical current density of iron pnictide BaFe1.8Co0.2As2 single crystals. Physica C: Superconductivity and Its Applications, 2010, 470, S452-S453.	0.6	2
138	Template engineering of Co-doped BaFe2As2 single-crystal thin films. Nature Materials, 2010, 9, 397-402.	13.3	185
139	Disorder effects and current percolation in FeAs-based superconductors. Superconductor Science and Technology, 2010, 23, 054006.	1.8	12
140	Filament to filament bridging and its influence on developing high critical current density in multifilamentary Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub><i>x</i></sub> round wires. Superconductor Science and Technology, 2010, 23, 025009.	1.8	60
141	MgO platelets and high critical field in MgB2thin films doped with carbon from methane. Superconductor Science and Technology, 2010, 23, 049801-049801.	1.8	0
142	Strong vortex pinning in Co-doped BaFe2As2 single crystal thin films. Applied Physics Letters, 2010, 96, .	1.5	66
143	Pair-breaking effects and coherence peak in the terahertz conductivity of superconductingBaFe2â^'2xCo2xAs2thin films. Physical Review B, 2010, 82, .	1.1	32
144	Nanoscale disorder in pure and doped MgB <sub>2</sub> thin films. Superconductor Science and Technology, 2010, 23, 095008.	1.8	13

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145	33.8 TESLA WITH A YBa[sub 2]Cu[sub 3]O[sub 7â^'x] SUPERCONDUCTING TEST COIL. AIP Conference Proceedings, 2010, , .	0.3	14
146	High Field Magnets With HTS Conductors. IEEE Transactions on Applied Superconductivity, 2010, 20, 576-582.	1.1	175
147	Angular dependence of <i>J</i> <sub>c</sub> for YBCO coated conductors at low temperature and very high magnetic fields. Superconductor Science and Technology, 2010, 23, 014003.	1.8	76
148	The effect of strain on grains and grain boundaries in YBa2Cu3O7â~δcoated conductors. Superconductor Science and Technology, 2010, 23, 014004.	1.8	33
149	Suppression of the Critical Temperature of Superconducting NdFeAs(OF) Single Crystals by Kondo-Like Defect Sites Induced by <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mi>α</mml:mi></mml:math> -Particle Irradiation. Physical Review Letters, 2010, 104. 087002.	2.9	70
150	Small anisotropy, weak thermal fluctuations, and high field superconductivity in Co-doped iron pnictide Ba(Fe1â^'xCox)2As2. Applied Physics Letters, 2009, 94, .	1.5	337
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27

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