

David A Cardwell

List of Publications by Year in descending order

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238
docs citations

238
times ranked

1479
citing authors

#	ARTICLE	IF	CITATIONS
1	Waveform Control Pulsed Field Magnetization of RE-Ba-Cu-O Bulk Superconducting Rings. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	5
2	Trapped Fields >1 T in a Bulk Superconducting Ring by Pulsed Field Magnetization. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	4
3	Dynamic guidance performance of GdBaCuO and YBaCuO bulk single grain superconductors under a varying external magnetic field. Journal Physics D: Applied Physics, 2022, 55, 355001.	1.3	2
4	Improved mechanical properties through recycling of Y-Ba-Cu-O bulk superconductors. Journal of the European Ceramic Society, 2021, 41, 3480-3492.	2.8	6
5	Improved trapped field performance of single grain Y-Ba-Cu-O bulk superconductors containing artificial holes. Journal of the American Ceramic Society, 2021, 104, 6309-6318.	1.9	10
6	A reliable technique to fabricate superconducting joints between single grain, Y-Ba-Cu-O bulk superconductors. Superconductor Science and Technology, 2021, 34, 094003.	1.8	7
7	Reliable 4.8 T trapped magnetic fields in Gd-Ba-Cu-O bulk superconductors using pulsed field magnetization. Superconductor Science and Technology, 2021, 34, 034002.	1.8	12
8	The magnetic and levitation characteristics of single-grain YBaCuO and GdBaCuO-Ag bulk superconductors in high magnetic fields. Journal of Applied Physics, 2021, 130, .	1.1	4
9	Flux vortex dynamics in type-II superconductors. Superconductor Science and Technology, 2020, 33, 014003.	1.8	2
10	Reliable single grain growth of (RE)BCO bulk superconductors with enhanced superconducting properties. Superconductor Science and Technology, 2020, 33, 024004.	1.8	30
11	Composite stacks for reliable > 17 T trapped fields in bulk superconductor magnets. Superconductor Science and Technology, 2020, 33, 02LT01.	1.8	32
12	Characterisation of the mechanical failure and fracture mechanisms of single grain Y-Ba-Cu-O bulk superconductors. Superconductor Science and Technology, 2020, 33, 015003.	1.8	4
13	Numerical optimisation of mechanical ring reinforcement for bulk high-temperature superconductors. Journal of Physics: Conference Series, 2020, 1559, 012031.	0.3	0
14	A simple, reliable and robust reinforcement method for the fabrication of (RE)-Ba-Cu-O bulk superconductors. Superconductor Science and Technology, 2020, 33, 054005.	1.8	6
15	Flux jumps in ring-shaped and assembled bulk superconductors during pulsed field magnetization. Superconductor Science and Technology, 2020, 33, 034001.	1.8	11
16	Distribution of the superconducting critical current density within a Gd-Ba-Cu-O single grain. Superconductor Science and Technology, 2020, 33, 044009.	1.8	26
17	The growth and superconducting properties of RE-Ba-Cu-O single grains with combined RE elements (RE=Ag and Y). Superconductor Science and Technology, 2020, 33, 035003.	1.8	6
18	Pulsed-field magnetisation of Y-Ba-Cu-O bulk superconductors fabricated by the infiltration growth technique. Superconductor Science and Technology, 2020, 33, 115012.	1.8	5

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19	Buffer-assisted Top-seeded Infiltration and Growth for Fabricating Dense, Single-grain (RE)-Ba-Cu-O Bulk Superconductors. IEEJ Transactions on Power and Energy, 2020, 140, 148-153.	0.1	2
20	Enhanced Mechanical Properties of Single-Domain YBCO Bulk Superconductors Processed With Artificial Holes. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.1	13
21	Magnetic levitation and guidance performance of $Y\text{-Ba-Cu-O}$ and $Gd\text{-Ba-Cu-O}$ bulk superconductors under low ambient pressure. Journal Physics D: Applied Physics, 2019, 52, 365001.	1.3	9
22	Improving Mechanical Strength of YBCO Bulk Superconductors by Addition of Ag. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	19
23	Penetration depth of shielding currents due to crossed magnetic fields in bulk (RE)-Ba-Cu-O superconductors. Superconductor Science and Technology, 2019, 32, 035010.	1.8	7
24	Magnetic Shielding of Open and Semi-closed Bulk Superconductor Tubes: The Role of a Cap. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-9.	1.1	9
25	Comparison of the superconducting properties of Y-Ba-Cu-O and Y-Ba-Cu-O-Ag bulk superconductors. IOP Conference Series: Materials Science and Engineering, 2019, 502, 012181.	0.3	1
26	Cost-effective isothermal top-seeded melt-growth of single-domain YBCO superconducting ceramics. Solid State Sciences, 2019, 88, 74-80.	1.5	15
27	Synthesis of Y_2BaCuO_5 nano-whiskers by a solution blow spinning technique and their successful introduction into single-grain, YBCO bulk superconductors. Ceramics International, 2019, 45, 3948-3953.	2.3	28
28	The effect of size and aspect ratio on the trapped field properties of single grain, $Y\text{-Ba-Cu-O}$ bulk superconductors. Superconductor Science and Technology, 2019, 32, 025005.	1.8	13
29	Numerical modelling of mechanical stresses in bulk superconductor magnets with and without mechanical reinforcement. Superconductor Science and Technology, 2019, 32, 034002.	1.8	29
30	Demagnetization Study of Pulse-Field Magnetized Bulk Superconductors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	4
31	The successful incorporation of Ag into single grain, $Y\text{-Ba-Cu-O}$ bulk superconductors. Superconductor Science and Technology, 2018, 31, 035008.	1.8	18
32	A robust seeding technique for the growth of single grain (RE)BCO and (RE)BCO-Ag bulk superconductors. Superconductor Science and Technology, 2018, 31, 044003.	1.8	21
33	Dynamic levitation performance of $Gd\text{-Ba-Cu-O}$ and $Y\text{-Ba-Cu-O}$ bulk superconductors under a varying external magnetic field. Superconductor Science and Technology, 2018, 31, 035010.	1.8	21
34	Toward Optimization of Multi-Pulse, Pulsed Field Magnetization of Bulk High-Temperature Superconductors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-7.	1.1	30
35	Spatial Distribution of Flexural Strength in $Y\text{-Ba-Cu-O}$ Bulk Superconductors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	10
36	A trapped field of 14.3 T in $Y\text{-Ba-Cu-O}$ bulk superconductors fabricated by buffer-assisted seeded infiltration and growth. Superconductor Science and Technology, 2018, 31, 125004.	1.8	29

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37	Exploiting flux jumps for pulsed field magnetisation. Superconductor Science and Technology, 2018, 31, 105005.	1.8	31
38	Bulk superconductors: a roadmap to applications. Superconductor Science and Technology, 2018, 31, 103501.	1.8	152
39	High Trapped Fields in C-doped MgB ₂ Bulk Superconductors Fabricated by Infiltration and Growth Process. Scientific Reports, 2018, 8, 13320.	1.6	28
40	Advantages of multi-seeded (RE)BaCuO superconductors for magnetic levitation applications. Superconductor Science and Technology, 2018, 31, 095008.	1.8	16
41	Quantification of the level of samarium/barium substitution in the Ag-Sm _{1+x} Ba _{2-\tilde{x}} Cu ₃ O _{7-\tilde{y}} system. Journal of the European Ceramic Society, 2018, 38, 5036-5042.	2.8	1
42	The Measurement and Modeling of the Levitation Force Between Single-Grain YBCO Bulk Superconductors and Permanent Magnets. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-10.	1.1	13
43	A portable magnetic field of >3 T generated by the flux jump assisted, pulsed field magnetization of bulk superconductors. Applied Physics Letters, 2017, 110, .	1.5	40
44	Pulsed Field Magnetization of Bridge-Seeded Bulk YBCO Using Solenoid and Split Coils. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	8
45	Processing and Properties of Bar-Shaped Single-Seeded and Multi-Seeded YBCO Bulk Superconductors by a Top-Seeded Melt Growth Technique. Journal of Superconductivity and Novel Magnetism, 2017, 30, 1397-1403.	0.8	5
46	Full Magnetization of Bulk (RE)Ba ₂ Cu ₃ O _{7-\tilde{y}} Magnets With Various Rare-Earth Elements Using Pulsed Fields at 77 K. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.1	13
47	Microstructural evolution in infiltration-growth processed MgB ₂ bulk superconductors. Journal of the American Ceramic Society, 2017, 100, 2451-2460.	1.9	13
48	Improvements in the processing of large grain, bulk YBaCuO superconductors via the use of additional liquid phase. Superconductor Science and Technology, 2017, 30, 015017.	1.8	18
49	A novel pre-sintering technique for the growth of YBaCuO superconducting single grains from raw metal oxides. Superconductor Science and Technology, 2017, 30, 095001.	1.8	4
50	Multiple seeding for the growth of bulk GdBCOAg superconductors with single grain behaviour. Superconductor Science and Technology, 2017, 30, 015003.	1.8	14
51	Growth rate of YBCO-Ag superconducting single grains. IOP Conference Series: Materials Science and Engineering, 2017, 279, 012027.	0.3	4
52	The use of buffer pellets to pseudo hot seed (RE)BaCuO(Ag) single grain bulk superconductors. Superconductor Science and Technology, 2016, 29, 015010.	1.8	29
53	Microstructure and Composition of Primary and Recycled Single Grains of YBCO, GdBCOAg, and SmBCOAg Bulk Superconductors. Journal of the American Ceramic Society, 2016, 99, 3111-3119.	1.9	14
54	Microstructural evolution in multiseeded YBCO bulk samples grown by the TSMG process. Superconductor Science and Technology, 2016, 29, 115005.	1.8	2

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55	Transport in Bulk Superconductors: A Practical Approach?. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.1	9
56	An improved top seeded infiltration growth method for the fabrication of Y-Ba-Cu-O bulk superconductors. Journal of the European Ceramic Society, 2016, 36, 615-624.	2.8	53
57	Factors Affecting the Growth of Multiseeded Superconducting Single Grains. Crystal Growth and Design, 2016, 16, 5110-5117.	1.4	15
58	A novel, two-step top seeded infiltration and growth process for the fabrication of single grain, bulk (RE)BCO superconductors. Superconductor Science and Technology, 2016, 29, 095010.	1.8	25
59	Comparison of the effects of platinum and CeO ₂ on the properties of single grain, Sm-Ba-Cu-O bulk superconductors. Superconductor Science and Technology, 2016, 29, 125002.	1.8	11
60	Effect of Pt and CeO ₂ on Growth of Y-123/nano-Y ₂ O ₃ Single Grain Superconductors. IEEE Transactions on Applied Superconductivity, 2016, , 1-1.	1.1	3
61	Enhanced trapped field performance of bulk high-temperature superconductors using split coil, pulsed field magnetization with an iron yoke. Superconductor Science and Technology, 2016, 29, 074003.	1.8	63
62	Depth-dependent critical-current density of melt-processed Y-Ba-Cu-O discs determined by the third-harmonic technique: Surface barrier and intrinsic pinning. Physica C: Superconductivity and Its Applications, 2016, 527, 1-8.	0.6	1
63	Processing and applications of (RE)BCO and MgB ₂ bulk superconductors: an introduction to the special issue. Superconductor Science and Technology, 2016, 29, 060302.	1.8	3
64	Pulsed Field Magnetization of Single-Grain Bulk YBCO Processed From Graded Precursor Powders. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.1	6
65	Mitigation of Demagnetization of Bulk Superconductors by Time-Varying External Magnetic Fields. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	10
66	Control of Y-211 content in bulk YBCO superconductors fabricated by a buffer-aided, top seeded infiltration and growth melt process. Superconductor Science and Technology, 2016, 29, 034007.	1.8	26
67	A trapped magnetic field of 3 T in homogeneous, bulk MgB ₂ superconductors fabricated by a modified precursor infiltration and growth process. Superconductor Science and Technology, 2016, 29, 035008.	1.8	27
68	Computation of the Field in an Axial Gap, Trapped-Flux Type Superconducting Electric Machine. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.1	6
69	A Reliable Method for Recycling (RE)BaCuO (RE: Sm, Gd, Y) Bulk Superconductors. Journal of the American Ceramic Society, 2015, 98, 2760-2766.	1.9	18
70	A new seeding technique for the reliable fabrication of large, SmBCO single grains containing silver using top seeded melt growth. Superconductor Science and Technology, 2015, 28, 035014.	1.8	27
71	Influence of Time-Varying External Magnetic Fields on Trapped Fields in Bulk Superconductors. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.1	14
72	Processing and Properties of Bulk Y-Ba-Cu-O Superconductors Fabricated by Top Seeded Melt Growth from Precursor Pellets Containing a Graded CeO ₂ Composition. Crystal Growth and Design, 2015, 15, 907-914.	1.4	24

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73	Buffer Pellets for High-Yield, Top-Seeded Melt Growth of Large Grain Y-Ba-Cu-O Superconductors. <i>Crystal Growth and Design</i> , 2015, 15, 1472-1480.	1.4	57
74	Synthesis of dense bulk MgB_2 by an infiltration and growth process. <i>Superconductor Science and Technology</i> , 2015, 28, 015012.	1.8	26
75	Simulating the In-Field AC and DC Performance of High-Temperature Superconducting Coils. <i>IEEE Transactions on Applied Superconductivity</i> , 2015, 25, 1-5.	1.1	47
76	Numerical simulation and analysis of single grain YBCO processed from graded precursor powders. <i>Superconductor Science and Technology</i> , 2015, 28, 035016.	1.8	8
77	Effect of Y-211 particle size on the growth of single grain Y-Ba-Cu-O bulk superconductors. <i>Journal of Crystal Growth</i> , 2015, 412, 31-39.	0.7	17
78	Influence of soft ferromagnetic sections on the magnetic flux density profile of a large grain, bulk Y-Ba-Cu-O superconductor. <i>Superconductor Science and Technology</i> , 2015, 28, 095008.	1.8	27
79	A flux extraction device to measure the magnetic moment of large samples; application to bulk superconductors. <i>Review of Scientific Instruments</i> , 2015, 86, 025107.	0.6	6
80	Use of $\text{Sm}_{123} + \text{Sm}_{211}$ Mixed-Powder Buffers to Assist the Growth of SmBCO and ZrO_2 -doped SmBCO Single Grain, Bulk Superconductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2015, 25, 1-5.	1.1	6
81	Characterization of Bulk MgB_2 Synthesized by Infiltration and Growth. <i>IEEE Transactions on Applied Superconductivity</i> , 2015, 25, 1-4.	1.1	7
82	Numerical Analysis of Non-Uniformities and Anisotropy in High-Temperature Superconducting Coils. <i>IEEE Transactions on Applied Superconductivity</i> , 2015, 25, 1-5.	1.1	11
83	Pulsed field magnetization of 0° and 45° bridge-seeded Y-Ba-Cu-O bulk superconductors. <i>Superconductor Science and Technology</i> , 2015, 28, 125002.	1.8	16
84	The Influence of Y-211 Content on the Growth Rate and Y-211 Distribution in Y-Ba-Cu-O Single Grains Fabricated by Top Seeded Melt Growth. <i>Crystal Growth and Design</i> , 2014, 14, 6367-6375.	1.4	44
85	Modelling and comparison of trapped fields in (RE)BCO bulk superconductors for activation using pulsed field magnetization. <i>Superconductor Science and Technology</i> , 2014, 27, 065008.	1.8	112
86	A trapped field of 17.6 T in melt-processed, bulk Gd-Ba-Cu-O reinforced with shrink-fit steel. <i>Superconductor Science and Technology</i> , 2014, 27, 082001.	1.8	457
87	Mechanical characterization of GdBCO/Ag and YBCO single grains fabricated by top-seeded melt growth at 77 and 300 K. <i>Superconductor Science and Technology</i> , 2014, 27, 115011.	1.8	31
88	Effect of the size of GdBCO-Ag secondary magnet on the static forces performance of linear synchronous motors. <i>Superconductor Science and Technology</i> , 2014, 27, 115016.	1.8	4
89	Permanent Magnet Enhancement of Fully Superconducting $\text{MgB}_2\text{-YBa}_2\text{Cu}_3\text{O}_{7-x}$ Bearing. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 923-929.	0.8	7
90	Fishtail effects and improved critical current density in polycrystalline bulk MgB_2 containing carbon nanotubes. <i>Physica C: Superconductivity and Its Applications</i> , 2013, 492, 6-10.	0.6	9

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91	The Use of an MgB_2 Hollow Cylinder and Pulse Magnetized (RE)BCO Bulk for Magnetic Levitation Applications. IEEE Transactions on Applied Superconductivity, 2013, 23, 6800604-6800604.	1.1	15
92	Magneto-Optical Imaging of Superconductors for Liquid Hydrogen Applications. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1499-1502.	0.8	14
93	Improving the superconducting properties of single grain Sm-Ba-Cu-O bulk superconductors fabricated in air by increased control of Sm/Ba substitution effects. Superconductor Science and Technology, 2013, 26, 095012.	1.8	11
94	The influence of a grain boundary on the thermal transport properties of bulk, melt-processed Y-Ba-Cu-O . Superconductor Science and Technology, 2013, 26, 015006.	1.8	6
95	A Comparison of 0° and 45° bridge-seeded, YBCO single grains. Journal of the American Ceramic Society, 2013, 96, 1757-1762.	1.9	14
96	Bulk YBCO seeded with 45° bridge-seeds of different lengths. Superconductor Science and Technology, 2013, 26, 015012.	1.8	15
97	The processing and properties of single grain Y-Ba-Cu-O fabricated from graded precursor powders. Superconductor Science and Technology, 2013, 26, 125021.	1.8	18
98	Growth of large sized $\text{YBa}_2\text{Cu}_3\text{O}_7$ single crystals using the top seeded melt growth process. Superconductor Science and Technology, 2012, 25, 075012.	1.8	18
99	Alternating-current susceptibility and critical-current density of melt-processed Gd-Ba-Cu-O-Ag single grains: effect of intrinsic edge pinning. Superconductor Science and Technology, 2012, 25, 014010.	1.8	2
100	Properties of grain boundaries in bulk, melt processed Y-Ba-Cu-O fabricated using bridge-shaped seeds. Superconductor Science and Technology, 2012, 25, 045006.	1.8	17
101	Focus section on superconducting power systems. Superconductor Science and Technology, 2012, 25, 010301-010301.	1.8	0
102	A trapped field of ≈ 3 T in bulk MgB_2 fabricated by uniaxial hot pressing. Superconductor Science and Technology, 2012, 25, 112002.	1.8	92
103	Simulation studies on the magnetization of (RE)BCO bulk superconductors using various split-coil arrangements. Superconductor Science and Technology, 2012, 25, 025016.	1.8	11
104	Synthesis of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ and Y_2BaCuO_5 Nanocrystalline Powders for YBCO Superconductors Using Carbon Nanotube Templates. ACS Nano, 2012, 6, 5395-5403.	7.3	43
105	Seeded Infiltration and Growth of Bulk YBCO Nano-Composites. IEEE Transactions on Applied Superconductivity, 2011, 21, 2698-2701.	1.1	18
106	Microstructure and Superconducting Properties of Single Grains of Y-Ba-Cu-O Containing Y-2411(M) and Y_2O_3 . IEEE Transactions on Applied Superconductivity, 2011, 21, 1576-1578.	1.1	5
107	Spin Anisotropy of the Magnetic States in the $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ and Superconducting States of Optimally doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. http://www.w3.org/1998/Math/MathML $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$	1.1	23
108	A simple method for recycling GdBCO-Ag single grain bulk superconductors. Superconductor Science and Technology, 2011, 24, 075010.	1.8	6

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109	Growth rate of YBCO single grains containing Y-2411(M). Journal of Physics: Conference Series, 2010, 234, 012039.	0.3	9
110	Characterization of nano-composite M-2411/Y-123 thin films by electron backscatter diffraction and in-field critical current measurements. Journal of Physics: Conference Series, 2010, 234, 012006.	0.3	1
111	Magneto-thermal phenomena in bulk high temperature superconductors subjected to applied AC magnetic fields. Superconductor Science and Technology, 2010, 23, 075006.	1.8	16
112	Axial and radial ac susceptibility measurements on melt-processed single-grain Y-Ba-Cu-O discs. Superconductor Science and Technology, 2010, 23, 045010.	1.8	2
113	Recycling of multi-grain, melt processed bulk (RE)BCO superconductors. Superconductor Science and Technology, 2010, 23, 065012.	1.8	11
114	Top seeded melt growth of Gd-Ba-Cu-O single grain superconductors. Superconductor Science and Technology, 2010, 23, 034008.	1.8	31
115	PASREG: The 7th International Workshop on the Processing and Applications of Superconducting (RE)BCO Large Grain Materials (Washington DC, 29-31 July 2010). Superconductor Science and Technology, 2010, 23, 120301-120301.	1.8	0
116	The anisotropic morphology of silver particles in Y-123/Y-24Nb1/Ag nanocomposite bulk high-temperature superconductors. Journal of Materials Research, 2010, 25, 1243-1250.	1.2	5
117	Field trapping of Y-Ba-Cu-O single grain rings joined to form the geometry of a solenoid. Superconductor Science and Technology, 2010, 23, 045014.	1.8	5
118	Self-heating of bulk high temperature superconductors of finite height subjected to a large alternating magnetic field. Superconductor Science and Technology, 2010, 23, 124004.	1.8	9
119	Multiseeded melt growth of bulk Y-Ba-Cu-O using thin film seeds. Journal of Applied Physics, 2010, 108, .	1.1	23
120	THE GENERATION OF HIGH TRAPPED FIELDS IN BULK (RE)BCO HIGH TEMPERATURE SUPERCONDUCTORS. , 2010, , .		3
121	Theoretical simulation studies of pulsed field magnetisation of (RE)BCO bulk superconductors. Journal of Physics: Conference Series, 2010, 234, 012049.	0.3	7
122	Self-assembled artificial pinning centres in thick YBCO superconducting films. Journal of Physics: Conference Series, 2010, 234, 022022.	0.3	12
123	Processing and properties of large grain Y-Ba-Cu-O containing Y2Ba4CuWOy and Ag second phase inclusions. Journal of Applied Physics, 2009, 106, 063921.	1.1	3
124	The influence of Gd-2411(Nb) on the superconducting properties of GdBCO/Ag single grains. Superconductor Science and Technology, 2009, 22, 075025.	1.8	17
125	Artificial pinning centres in YBa2Cu3O7 thin films by Gd2Ba4CuWOynanophase inclusions. Superconductor Science and Technology, 2009, 22, 034020.	1.8	22
126	Control of Y₂BaCuO₅ particle formation in bulk, single grain Y-Ba-Cu-O. Superconductor Science and Technology, 2009, 22, 065011.	1.8	13

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127	The effect of very high barium content in the precursor on the properties of GdBCO single grain bulk superconductors. <i>Journal of Materials Research</i> , 2009, 24, 10-18.	1.2	10
128	Improved Flux Pinning in Yâ€“Baâ€“Cuâ€“O Superconductors Containing Niobium Oxide. <i>IEEE Transactions on Applied Superconductivity</i> , 2009, 19, 2970-2973.	1.1	6
129	Single domain YBCO/Ag bulk superconductors fabricated by seeded infiltration and growth. <i>Journal of Physics: Conference Series</i> , 2008, 97, 012105.	0.3	5
130	Critical-current density of melt-grown single-grain Yâ€“Baâ€“Cuâ€“O disks determined by ac susceptibility measurements. <i>Superconductor Science and Technology</i> , 2008, 21, 085013.	1.8	15
131	Enhanced self-field critical current density of nano-composite YBa ₂ Cu ₃ O ₇ thin films grown by pulsed-laser deposition. <i>Europhysics Letters</i> , 2008, 82, 57006.	0.7	15
132	IMPROVED MAGNETIC FLUX PINNING IN BULK (RE)BCO SUPERCONDUCTORS. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	2
133	An ac susceptometer for the characterization of large, bulk superconducting samples. <i>Measurement Science and Technology</i> , 2008, 19, 085705.	1.4	19
134	Superconducting properties of Gd-Ba-Cu-O single grains processed from a new, Ba-rich precursor compound. <i>Journal of Physics: Conference Series</i> , 2008, 97, 012250.	0.3	5
135	Properties of GdBCO bulk superconductors melt-processed in air using a Mg-doped Ndâ€“Baâ€“Cuâ€“O generic seed crystal. <i>Superconductor Science and Technology</i> , 2007, 20, 38-43.	1.8	36
136	Flux pinning and other related phenomena in type-II superconductors. <i>Superconductor Science and Technology</i> , 2007, 20, .	1.8	1
137	Silver-doped Yâ€“Baâ€“Cuâ€“O bulk superconductors fabricated by seeded infiltration and growth. <i>Superconductor Science and Technology</i> , 2007, 20, 1065-1070.	1.8	20
138	Remagnetization of bulk high-temperature superconductors subjected to crossed and rotating magnetic fields. <i>Superconductor Science and Technology</i> , 2007, 20, S174-S183.	1.8	40
139	Behavior of bulk high-temperature superconductors of finite thickness subjected to crossed magnetic fields: Experiment and model. <i>Physical Review B</i> , 2007, 75, .	1.1	87
140	Strongly Coupled Artificial Bulk HTS Grain Boundaries With High Critical Current Densities. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 2949-2952.	1.1	19
141	Flux pinning in melt-processed nanocomposite single-grain superconductors. <i>Superconductor Science and Technology</i> , 2007, 20, S141-S146.	1.8	23
142	Growth Rate and Superconducting Properties of Gd-Ba-Cu-O Bulk Superconductors Melt Processed in Air. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 2984-2987.	1.1	23
143	Bulk Superconducting Nano-Composites With High Critical Currents. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 2953-2956.	1.1	10
144	Crystallographic Orientation of Y ₂ Ba ₄ CuMO _x (M=Nb, Zr, Ag) Nanoparticles Embedded in Bulk, Melt-Textured YBCO Studied by EBSD. <i>Journal of the American Ceramic Society</i> , 2007, 90, 2582-2588.	1.9	28

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145	The Development of a Passive Magnetic Levitation System for Wind Tunnel Models. , 2006, , .		2
146	Investigation of grain orientations of melt-textured HTSC with addition of uranium oxide, Y ₂ O ₃ and Y ₂ BaCuO ₅ . Journal of Physics: Conference Series, 2006, 43, 527-530.	0.3	1
147	Properties of Mg-doped Nd-Ba-Cu-O generic seed crystals for the top seeded melt growth of (RE)-Ba-Cu-O bulk superconductors. Journal of Physics: Conference Series, 2006, 43, 446-449.	0.3	1
148	Analysis of melt-textured YBCO with nanoscale inclusions. Journal of Physics: Conference Series, 2006, 43, 522-526.	0.3	1
149	Single grain (LRE)-Ba-Cu-O superconductors fabricated by top seeded melt growth in air. Journal of Physics: Conference Series, 2006, 43, 421-424.	0.3	2
150	EBSD characterisation of Y ₂ Ba ₄ Cu ₁₀ O _x phase in melt-textured YBCO with addition of depleted uranium oxide. Journal of Physics: Conference Series, 2006, 43, 438-441.	0.3	3
151	An electron backscatter diffraction investigation of crystallographic orientations of embedded nanoparticles within melt-textured YBCO high temperature superconductors. Superconductor Science and Technology, 2006, 19, S562-S566.	1.8	17
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