Hari Babu Nadendla

List of Publications by Year
in descending order

209 papers	4,319 citations	117571 34 h-index	175177 52 g-index
220 all docs	220 docs citations	220 times ranked	1917 citing authors

#	Article	IF	Citations
1	Comparative Analysis of Structure and Properties of Nb-B Inoculated Direct Chill Cast AA4032 Alloy Extruded from As-Cast and Homogenized Conditions. Jom, 2022, 74, 1218.	0.9	0
2	Influence of Ni in high Fe containing recyclable Al-Si cast alloys. Materials and Design, 2019, 182, 108017.	3.3	30
3	Towards industrial Al-Nb-B master alloys for grain refining Al-Si alloys. Journal of Materials Research and Technology, 2019, 8, 5631-5638.	2.6	22
4	Secondary Phase Interaction at Interfaces of High-Strength Brazed Joints made using Liquid Phase Sintered Alumina Ceramics and Ag-Cu-Ti Braze Alloys. Scientific Reports, 2018, 8, 3352.	1.6	7
5	Refinement of Mg alloys crystal structure via Nb-based heterogeneous substrates for improved performances. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 723, 70-78.	2.6	6
6	Considerations on the effect of solutal on the grain size of castings from superheated melts. Materials Letters, 2017, 201, 9-12.	1.3	4
7	Particle-induced morphological modification of Al alloy equiaxed dendrites revealed by sub-second in situ microtomography. Acta Materialia, 2017, 125, 303-310.	3.8	44
8	Influence of Cu on modifying the beta phase and enhancing the mechanical properties of recycled Al-Si-Fe cast alloys. Scientific Reports, 2017, 7, 5779.	1.6	28
9	Potential of an Al-Ti-MgAl2O4 Master Alloy and Ultrasonic Cavitation in the Grain Refinement of a Cast Aluminum Alloy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 208-219.	1.0	17
10	The grain refinement potency of bismuth in magnesium. Journal of Alloys and Compounds, 2017, 695, 971-975.	2.8	17
11	Prospects of In-Situ Î±-Al2O3 as an Inoculant in Aluminum: A Feasibility Study. Journal of Materials Engineering and Performance, 2017, 26, 4166-4176.	1.2	20
12	Improved Recyclability of Cast Al-Alloys by Engineering Î²-Al9Fe2Si2 Phase. Minerals, Metals and Materials Series, 2017, , 1139-1147.	0.3	5
13	FEA of Al-SiC composite in engine valve guides. , 2016, , .		0
14	Engineering the heterogeneous nuclei in Al-Si alloys for solidification control. Applied Materials Today, 2016, 5, 255-259.	2.3	34
15	Formation of equiaxed crystal structures in directionally solidified Al-Si alloys using Nb-based heterogeneous nuclei. Scientific Reports, 2016, 6, 39554.	1.6	37
16	Misfit paradox on nucleation potency of MgO and MgAl2O4 for Al. Materials Characterization, 2016, 119, 92-98.	1.9	14
17	The Effect of Post-grinding Heat Treatment of Alumina and Ag-Cu-Ti Braze Preform Thickness on the Microstructure and Mechanical Properties of Alumina-to-Alumina-Brazed Joints. Journal of Materials Engineering and Performance, 2016, 25, 3218-3230.	1.2	4
18	Heterogeneous Nb-Based Nuclei for the Grain Refinement of Al-Si Alloys. Jom, 2016, 68, 1301-1306.	0.9	7

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19	Morphological changes and segregation of Î²-Al 9 Fe 2 Si 2 phase: A perspective from better recyclability of cast Al-Si alloys. Materials and Design, 2016, 108, 277-288.	3.3	54
20	Nb-based heterogeneous nuclei for enhanced Î±-Mg nucleation in Mg(-Al) alloys. Materials Letters, 2016, 169, 207-209.	1.3	7
21	A trapped magnetic field of 3 T in homogeneous, bulk MgB₂superconductors fabricated by a modified precursor infiltration and growth process. Superconductor Science and Technology, 2016, 29, 035008.	1.8	27
22	Formation of MgAl₂O₄ at Al/MgO Interface. Materials Transactions, 2015, 56, 277-280.	0.4	15
23	Numerical modelling and comparison of MgB₂bulks fabricated by HIP and infiltration growth. Superconductor Science and Technology, 2015, 28, 075009.	1.8	37
24	Assessment of the influence of Alâ€“2Nbâ€“2B master alloy on the grain refinement and properties of LM6 (A413) alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 230-237.	2.6	43
25	Structureâ€“property analysis of in-situ Alâ€“MgAl2O4 metal matrix composites synthesized using ultrasonic cavitation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 30-40.	2.6	48
26	Synthesis of dense bulk MgB₂by an infiltration and growth process. Superconductor Science and Technology, 2015, 28, 015012.	1.8	26
27	On the effect of Nb-based compounds on the microstructure of Alâ€“12Si alloy. Materials Chemistry and Physics, 2015, 162, 340-345.	2.0	14
28	Characterization of Bulk MgB₂ Synthesized by Infiltration and Growth. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	7
29	Development of Al-B-C Master Alloy Under External Fields. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2862-2869.	1.1	4
30	The effect of Nbâ€“B inoculation on binary hypereutectic and near-eutectic LM13 Alâ€“Si cast alloys. Journal of Alloys and Compounds, 2015, 641, 22-29.	2.8	17
31	Refinement of the grain size of the LM25 alloy (A356) by 96Alâ€“2Nbâ€“2B master alloy. Journal of Materials Processing Technology, 2015, 222, 219-223.	3.1	23
32	Development of Alâ€“Nbâ€“B master alloys using Nb and KBF4 Powders. Materials & Design, 2015, 75, 40-46.	5.1	38
33	X-ray tomography investigation of intensive sheared Alâ€“SiC metal matrix composites. Materials Characterization, 2015, 110, 258-263.	1.9	16
34	Grain refinement of Alâ€“Si alloys by Nbâ€“B inoculation. Part II: Application to commercial alloys. Materials & Design, 2015, 66, 376-383.	5.1	74
35	Grain refinement of Alâ€“Si alloys by Nbâ€“B inoculation. Part I: Concept development and effect on binary alloys. Materials & Design, 2015, 66, 366-375.	5.1	92
36	Grain refining potency of Nbâ€“B inoculation on Alâ€“12Siâ€“0.6Feâ€“0.5Mn alloy. Journal of Alloys and Compounds, 2015, 623, 79-82.	2.8	25

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37	Twin Roll Casting of Al-Mg Alloy with High Added Impurity Content. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 2842-2854.	1.1	21
38	On the Performance of A Novel Grain Refiner in Hyper-Eutectic Al-Si Cast Alloys. , 2014, , 957-962.		0
39	Grain Refiner Development for Al Containing Mg Alloys. Materials Science Forum, 2013, 765, 145-149.	0.3	1
40	A Comparison of 0Â°â€“0Â° and 45Â°â€“45Â° bridgeâ€Seeded, <scp>YBCO</scp> single grains. Journal of the American Ceramic Society, 2013, 96, 1757-1762.	1.9	14
41	Growth of large sized Y Ba₂Cu₃O₇single crystals using the top seeded melt growth process. Superconductor Science and Technology, 2012, 25, 075012.	1.8	18
42	Properties of grain boundaries in bulk, melt processed Yâ€“Baâ€“Cuâ€“O fabricated using bridge-shaped seeds. Superconductor Science and Technology, 2012, 25, 045006.	1.8	17
43	A trapped field of >3 T in bulk MgB₂fabricated by uniaxial hot pressing. Superconductor Science and Technology, 2012, 25, 112002.	1.8	92
44	Solidification behaviour of an AA5754 Al alloy ingot cast with high impurity content. International Journal of Materials Research, 2012, 103, 1228-1234.	0.1	16
45	Synthesis of YBa₂Cu₃O_{7â^Î´} and Y₂BaCuO₅ Nanocrystalline Powders for YBCO Superconductors Using Carbon Nanotube Templates. ACS Nano, 2012, 6, 5395-5403.	7.3	43
46	Microstructural evaluation of melt conditioned twin roll cast Alâ€“Mg alloy. Materials Science and Technology, 2011, 27, 1833-1839.	0.8	29
47	Seeded Infiltration and Growth of Bulk YBCO Nano-Composites. IEEE Transactions on Applied Superconductivity, 2011, 21, 2698-2701.	1.1	18
48	Solidification Behavior of Intensively Sheared Hypoeutectic Al-Si Alloy Liquid. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1117-1126.	1.1	11
49	Influence of Intensive Melt Shearing on the Microstructure and Mechanical Properties of an Al-Mg Alloy with High Added Impurity Content. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3141-3149.	1.1	15
50	Recycling of high grade die casting AM series magnesium scrap with the melt conditioned high pressure die casting (MC-HPDC) process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 2664-2669.	2.6	21
51	The interaction of nanostripes and the twin structure in light-rare-earth-element-based 123-type high-Tc superconductors. Physica C: Superconductivity and Its Applications, 2011, 471, 66-70.	0.6	1
52	Developments in the processing of bulk (RE)BCO superconductors. Physica C: Superconductivity and Its Applications, 2011, 471, 169-178.	0.6	21
53	Spin anisotropy of the magnetic excitations in the normal and superconducting states of optimally doped YBa<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	1.1	23
54	A simple method for recycling GdBCOâ€“Ag single grain bulk superconductors. Superconductor Science and Technology, 2011, 24, 075010.	1.8	6

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55	Structural and Magnetic Properties of Ni Rich Amorphous Boride Nanoparticles. , 2011, , .		2
56	Growth rate of YBCO single grains containing Y-2411(M). Journal of Physics: Conference Series, 2010, 234, 012039.	0.3	9
57	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
58	Microstructural refinement of Alâ€“10.2%Si alloy by intensive shearing. Materials Letters, 2010, 64, 671-673.	1.3	24
59	Batch-processed GdBCOâ€“Ag bulk superconductors fabricated using generic seeds with high trapped fields. Physica C: Superconductivity and Its Applications, 2010, 470, 685-688.	0.6	64
60	Microstructural refinement of AZ91D die-cast alloy by intensive shearing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2929-2934.	2.6	39
61	Magneto-thermal phenomena in bulk high temperature superconductors subjected to applied AC magnetic fields. Superconductor Science and Technology, 2010, 23, 075006.	1.8	16
62	Recycling of multi-grain, melt processed bulk (RE)BCO superconductors. Superconductor Science and Technology, 2010, 23, 065012.	1.8	11
63	Top seeded melt growth of Gdâ€“Baâ€“Cuâ€“O single grain superconductors. Superconductor Science and Technology, 2010, 23, 034008.	1.8	31
64	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
65	Field trapping of Yâ€“Baâ€“Cuâ€“O single grain rings joined to form the geometry of a solenoid. Superconductor Science and Technology, 2010, 23, 045014.	1.8	5
66	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
67	THE GENERATION OF HIGH TRAPPED FIELDS IN BULK (RE)BCO HIGH TEMPERATURE SUPERCONDUCTORS. , 2010, , .		3
68	Self-assembled artificial pinning centres in thick YBCO superconducting films. Journal of Physics: Conference Series, 2010, 234, 022022.	0.3	12
69	Effect of intensive shearing on morphology of primary silicon and properties of hypereutectic Alâ€“Si alloy. Materials Science and Technology, 2010, 26, 975-980.	0.8	8
70	Processing and properties of large grain Yâ€“Baâ€“Cuâ€“O containing Y2Ba4CuWOy and Ag second phase inclusions. Journal of Applied Physics, 2009, 106, 063921.	1.1	3
71	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
72	Artificial pinning centres in YBa2Cu3O7â^Îthin films by Gd2Ba4CuWOynanophase inclusions. Superconductor Science and Technology, 2009, 22, 034020.	1.8	22

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73	Control of Y₂BaCuO₅particle formation in bulk, single grain Yâ€“Baâ€“Cuâ€“O. Superconductor Science and Technology, 2009, 22, 065011.	1.8	13
74	The effect of very high barium content in the precursor on the properties of GdBCO single grain bulk superconductors. Journal of Materials Research, 2009, 24, 10-18.	1.2	10
75	Fabrication of high performance Y-123/Y-24Nb1/Ag single grain composites. Physica C: Superconductivity and Its Applications, 2009, 469, 1173-1177.	0.6	12
76	Processing of Ultrafine-Size Particulate Metal Matrix Composites by Advanced Shear Technology. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 691-701.	1.1	16
77	Processing of Aluminum-Graphite Particulate Metal Matrix Composites by Advanced Shear Technology. Journal of Materials Engineering and Performance, 2009, 18, 1230-1240.	1.2	64
78	Observation of nanostripes and -clusters in (Nd,EuGd)Ba2Cu3Ox superconductors. Physica C: Superconductivity and Its Applications, 2009, 469, 168-176.	0.6	7
79	Fabrication of high performance Gdâ€“Baâ€“Cuâ€“O single grains in air using a practical melt processing technique. Physica C: Superconductivity and Its Applications, 2009, 469, 1146-1152.	0.6	8
80	Processing of advanced Al/SiC particulate metal matrix composites under intensive shearing â€“ A novel Rheo-process. Composites Part A: Applied Science and Manufacturing, 2009, 40, 144-151.	3.8	150
81	Improved Flux Pinning in Yâ€“Baâ€“Cuâ€“O Superconductors Containing Niobium Oxide. IEEE Transactions on Applied Superconductivity, 2009, 19, 2970-2973.	1.1	6
82	High-field flux mapping of (RE)BCO bulk superconductorsâ€”Development of an in situ scanning system. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 151, 79-83.	1.7	5
83	Processing of bulk Smâ€“Baâ€“Cuâ€“O nano-composite superconductors. Physica C: Superconductivity and Its Applications, 2008, 468, 1340-1344.	0.6	11
84	The possibility of negative substitution (x) in melt-processed Gd1+xBa2â^'xCu3O7â^'Î´ GdBCO bulk superconductors. Physica C: Superconductivity and Its Applications, 2008, 468, 1408-1410.	0.6	3
85	The microstructure and properties of single grain bulk Ag-doped Yâ€“Baâ€“Cuâ€“O fabricated by seeded infiltration and growth. Physica C: Superconductivity and Its Applications, 2008, 468, 1387-1390.	0.6	9
86	Influence of Sm2Ba4CuBiO phase content on Jc of SmBa2Cu3O7/Sm2Ba4CuBiO nano-composites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 151, 21-24.	1.7	6
87	The effect of Ag and Y-24W1 addition on the microstructure and superconducting properties of single grain Yâ€“Baâ€“Cuâ€“O. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 151, 40-46.	1.7	6
88	Optimum processing conditions for the fabrication of large, single grain Ag-doped YBCO bulk superconductors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 151, 2-6.	1.7	10
89	Characterization of nano-composite oxide ceramics and monitoring of oxide thin film growth by laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 1117-1121.	1.5	29
90	Single domain YBCO/Ag bulk superconductors fabricated by seeded infiltration and growth. Journal of Physics: Conference Series, 2008, 97, 012105.	0.3	5

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91	Fabrication of Metal Matrix Composites under Intensive Shearing. Solid State Phenomena, 2008, 141-143, 373-378.	0.3	13
92	Enhanced self-field critical current density of nano-composite YBa 2 Cu 3 O 7 thin films grown by pulsed-laser deposition. Europhysics Letters, 2008, 82, 57006.	0.7	15
93	IMPROVED MAGNETIC FLUX PINNING IN BULK (RE)BCO SUPERCONDUCTORS. AIP Conference Proceedings, 2008, , .	0.3	2
94	An ac susceptometer for the characterization of large, bulk superconducting samples. Measurement Science and Technology, 2008, 19, 085705.	1.4	19
95	Superconducting properties of Gd-Ba-Cu-O single grains processed from a new, Ba-rich precursor compound. Journal of Physics: Conference Series, 2008, 97, 012250.	0.3	5
96	Properties of GdBCO bulk superconductors melt-processed in air using a Mg-doped Ndâ€“Baâ€“Cuâ€“O generic seed crystal. Superconductor Science and Technology, 2007, 20, 38-43.	1.8	36
97	Silver-doped Yâ€“Baâ€“Cuâ€“O bulk superconductors fabricated by seeded infiltration and growth. Superconductor Science and Technology, 2007, 20, 1065-1070.	1.8	20
98	Remagnetization of bulk high-temperature superconductors subjected to crossed and rotating magnetic fields. Superconductor Science and Technology, 2007, 20, S174-S183.	1.8	40
99	Behavior of bulk high-temperature superconductors of finite thickness subjected to crossed magnetic fields: Experiment and model. Physical Review B, 2007, 75, .	1.1	87
100	Strongly Coupled Artificial Bulk HTS Grain Boundaries With High Critical Current Densities. IEEE Transactions on Applied Superconductivity, 2007, 17, 2949-2952.	1.1	19
101	Flux pinning in melt-processed nanocomposite single-grain superconductors. Superconductor Science and Technology, 2007, 20, S141-S146.	1.8	23
102	Growth Rate and Superconducting Properties of Gd-Ba-Cu-O Bulk Superconductors Melt Processed in Air. IEEE Transactions on Applied Superconductivity, 2007, 17, 2984-2987.	1.1	23
103	Bulk Superconducting Nano-Composites With High Critical Currents. IEEE Transactions on Applied Superconductivity, 2007, 17, 2953-2956.	1.1	10
104	Phase stability of MgO-doped Ndâ€“Baâ€“Cuâ€“O seed crystals for cold-seeded, OCMG processing. Physica C: Superconductivity and Its Applications, 2007, 463-465, 340-343.	0.6	3
105	Crystallographic Orientation of Y2Ba4CuMOx(M=Nb, Zr, Ag) Nanoparticles Embedded in Bulk, Melt-Textured YBCO Studied by EBSD. Journal of the American Ceramic Society, 2007, 90, 2582-2588.	1.9	28
106	Investigation of grain orientations of melt-textured HTSC with addition of uranium oxide, Y2O3and Y2BaCuO5. Journal of Physics: Conference Series, 2006, 43, 527-530.	0.3	1
107	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
108	Analysis of melt-textured YBCO with nanoscale inclusions. Journal of Physics: Conference Series, 2006, 43, 522-526.	0.3	1

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109	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
110	EBSD characterisation of Y2Ba4CuUOxphase in melttextured YBCO with addition of depleted uranium oxide. Journal of Physics: Conference Series, 2006, 43, 438-441.	0.3	3
111	Processing and properties of single grain (RE)â€“Baâ€“Cuâ€“O bulk superconductors. Physica C: Superconductivity and Its Applications, 2006, 445-448, 1-7.	0.6	52
112	High-performance single grain Yâ€“Baâ€“Cuâ€“O bulk superconductor fabricated by seeded infiltration and growth. Physica C: Superconductivity and Its Applications, 2006, 445-448, 277-281.	0.6	18
113	The effect of seed orientation and separation on the field trapping properties of multi-seeded, melt processed Yâ€“Baâ€“Cuâ€“O. Physica C: Superconductivity and Its Applications, 2006, 445-448, 382-386.	0.6	17
114	Processing of high performance (LRE)-Baâ€“Cuâ€“O large, single-grain bulk superconductors in air. Physica C: Superconductivity and Its Applications, 2006, 445-448, 286-290.	0.6	21
115	Enhanced magnetic flux pinning in nano-composite Yâ€“Baâ€“Cuâ€“O superconductors. Physica C: Superconductivity and Its Applications, 2006, 445-448, 353-356.	0.6	23
116	Embedded Y2Ba4CuNbOx nanoparticles in melt-textured YBCO studied by means of EBSD. Physica C: Superconductivity and Its Applications, 2006, 445-448, 379-381.	0.6	11
117	The influence of Ndâ€“Baâ€“Cuâ€“Mgâ€“O generic seed crystal composition on Tc of seeded, bulk (RE)â€“Baâ€“Cuâ€“O grains. Physica C: Superconductivity and Its Applications, 2006, 445-448, 295-298.	0.6	3
118	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
119	YBa2Cu3O7â˜Î´/Y2Ba4CuMOysingle grain nanocomposite superconductors with high critical current densities. Superconductor Science and Technology, 2006, 19, S461-S465.	1.8	40
120	Seeded infiltration and growth of single-domain Gdâ€“Baâ€“Cuâ€“O bulk superconductors using a generic seed crystal. Superconductor Science and Technology, 2006, 19, S478-S485.	1.8	42
121	Gdâ€“Baâ€“Cuâ€“O bulk superconductors fabricated by a seeded infiltration growth technique under reduced oxygen partial pressure. Superconductor Science and Technology, 2006, 19, 641-647.	1.8	27
122	A practical processing method for the fabrication of high performance, single grain (LRE)-Baâ€“Cuâ€“O superconductors. Superconductor Science and Technology, 2006, 19, S510-S516.	1.8	11
123	Grain orientations and distribution of Y2Ba4CuUOxphase in melt-textured YBCO with addition of depleted uranium oxide studied by EBSD. Superconductor Science and Technology, 2006, 19, S567-S571.	1.8	5
124	Studies of cracking behavior in melt-processed YBCO bulk superconductors. Journal of Physics: Conference Series, 2006, 43, 429-433.	0.3	3
125	Nano-composite single grain YBa2Cu3O7-Î´/Y2Ba4CuBiOybulk superconductors. Journal of Physics: Conference Series, 2006, 43, 377-380.	0.3	11
126	The effect of Y-211 precursor particle size on the microstructure and properties of Yâ€“Baâ€“Cuâ€“O bulk superconductors fabricated by seeded infiltration and growth. Superconductor Science and Technology, 2006, 19, 711-718.	1.8	49

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127	Mg-doped Nd-Ba-Cu-O generic seed crystals for the top-seeded melt growth of large-grain (rare) Tj ETQq1 1 0.784314 rgBT /Overlock	1.2	15
128	Processing of large, single grain YBa2Cu3O7â^Î´/Y2BaCuO5/Y2Ba4CuNbOy bulk composites. Physica C: Superconductivity and Its Applications, 2005, 426-431, 520-526.	0.6	14
129	Comparative study of grain orientation in melt-textured HTSC with different additions. Physica C: Superconductivity and Its Applications, 2005, 426-431, 618-624.	0.6	12
130	Novel methods to characterize bulk RE-BCO superconductors. Physica C: Superconductivity and Its Applications, 2005, 426-431, 625-631.	0.6	13
131	High Tc superconductor re-entrant cavity filter structures. Physica C: Superconductivity and Its Applications, 2005, 425, 44-51.	0.6	16
132	A practical route for the fabrication of large single-crystal (RE)â€“Baâ€“Cuâ€“O superconductors. Nature Materials, 2005, 4, 476-480.	13.3	125
133	Effect of size, morphology and crystallinity of seed crystal on the nucleation and growth of single grain Yâ€“Baâ€“Cuâ€“O. Journal of the European Ceramic Society, 2005, 25, 2935-2938.	2.8	17
134	Orientation of embedded Y2BaCuO5particles within the YBa2Cu3Oxmatrix in melt-textured YBCO superconductors. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1714-1719.	0.8	4
135	Development of a generic seed crystal for the fabrication of large grain (RE)â€“Baâ€“Cuâ€“O bulk superconductors. Superconductor Science and Technology, 2005, 18, L13-L16.	1.8	95
136	Processing of large grain Y-123 superconductors with pre-defined porous structures. Superconductor Science and Technology, 2005, 18, S15-S18.	1.8	9
137	Round robin tests on large grain melt processed Smâ€“Baâ€“Cuâ€“O bulk superconductors. Superconductor Science and Technology, 2005, 18, S173-S179.	1.8	20
138	The effect of the addition of zirconium-containing compounds on the microstructure and superconducting properties of mono-domain Yâ€“Baâ€“Cuâ€“O bulk superconductors. Superconductor Science and Technology, 2005, 18, 704-709.	1.8	11
139	Improved magnetic flux pinning in melt processed (Y,Nd)Ba2Cu3O7â^Î´ superconductor. Superconductor Science and Technology, 2005, 18, S38-S42.	1.8	15
140	Fabrication of high performance light rare earth based single-grain superconductors in air. Applied Physics Letters, 2005, 87, 202506.	1.5	46
141	Trapped Field in Individual and Stacked Rings of Bulk Melt Processed Y-Ba-Cu-O. IEEE Transactions on Applied Superconductivity, 2005, 15, 3125-3128.	1.1	6
142	The effect of nano-size ZrO2powder addition on the microstructure and superconducting properties of single-domain Yâ€“Baâ€“Cuâ€“O bulk superconductors. Superconductor Science and Technology, 2005, 18, 249-254.	1.8	37
143	Grain Boundaries in Multi-Seeded Melt-Grown Superconductors. IEEE Transactions on Applied Superconductivity, 2005, 15, 3129-3132.	1.1	14
144	Large Single Grain (RE)-Ba-Cu-O Superconductors With Nano-Phase Inclusions. IEEE Transactions on Applied Superconductivity, 2005, 15, 3090-3093.	1.1	7

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145	The effect of size, morphology and crystallinity of seed crystals on the nucleation and growth of Yâ€“Baâ€“Cuâ€“O single-grain superconductors. Superconductor Science and Technology, 2005, 18, 64-72.	1.8	29
146	Seeded infiltration and growth of large, single domain Yâ€“Baâ€“Cuâ€“O bulk superconductors with very high critical current densities. Superconductor Science and Technology, 2005, 18, 1421-1427.	1.8	100
147	The influence of the addition of depleted uranium on particle pushing in melt-processed, bulk Yâ€“Baâ€“Cuâ€“O. Superconductor Science and Technology, 2004, 17, 186-193.	1.8	11
148	The existence of a highly undercooled state during the formation of Y2BaCuO5in large grain Yâ€“Baâ€“Cuâ€“O superconductors. Superconductor Science and Technology, 2004, 17, L1-L5.	1.8	5
149	Reversible magnetization of a strong-pinning superconductor. Physical Review B, 2004, 70, .	1.1	2
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151	New Pinning Centres in YBCO Bulk Supreconductors with Depleted Uranium Addition. European Physical Journal D, 2004, 54, 469-472.	0.4	3
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