

Naomichi Sakai

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

340
papers

5,866
citations

34
h-index

65
g-index

348
ext. papers

6,068
ext. citations

1.8
avg, IF

5.07
L-index

#	Paper	IF	Citations
340	Field-Trapping Performance of Drilled MgB ₂ Bulk Superconductor Embedded With Bi-In-Sn Alloy and Al-Rod Using Pulse-Field Magnetization Processes. <i>IEEE Transactions on Applied Superconductivity</i> , 2022 , 32, 1-6	1.8	
339	NMR Relaxometry Using Outer Field of Single-Sided HTS Bulk Magnet Activated by Pulsed Field. <i>IEEE Transactions on Applied Superconductivity</i> , 2022 , 32, 1-4	1.8	1
338	Synthesis of Dense MgB Superconductor via In Situ and Ex Situ Spark Plasma Sintering Method. <i>Materials</i> , 2021 , 14,	3.5	2
337	Modelling of the pulsed field magnetisation of a REBaCuO bulk with a superconducting weld. <i>Journal of Physics: Conference Series</i> , 2021 , 2043, 012001	0.3	2
336	Pinning behavior in bulk MgB ₂ prepared using boron powder refined via high-energy ultra-sonication. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021 , 34, 1297-1301	1.5	0
335	Review on the Use of Superconducting Bulks for Magnetic Screening in Electrical Machines for Aircraft Applications. <i>Materials</i> , 2021 , 14,	3.5	5
334	Shielding Effect on Flux Trapping in Pulsed-Field Magnetizing for Mg-B Bulk Magnet. <i>Journal of Physics: Conference Series</i> , 2021 , 1975, 012019	0.3	
333	(Gd,Y,Er)Ba ₂ Cu ₃ O _y bulk superconducting system processed via infiltration growth. <i>Journal of Alloys and Compounds</i> , 2021 , 881, 160535	5.7	1
332	Complex pulse magnetization process and mechanical properties of spark plasma sintered bulk MgB ₂ . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 273, 115390	3.1	1
331	Top-seeded infiltration growth processing of single grain (Gd, Dy)BaCuO superconductors: Nano Nb ₂ O ₅ doping, enhancement of trapped field and superconducting performance. <i>Materials Chemistry and Physics</i> , 2021 , 272, 124954	4.4	0
330	Optimization of Carbon Encapsulated Boron Doping for High-Performance Bulk Sintered MgB ₂ . <i>Advanced Engineering Materials</i> , 2020 , 22, 2000478	3.5	2
329	Recent Progress on the Development of High Temperature Superconducting Bulk Materials. <i>IEEJ Transactions on Power and Energy</i> , 2020 , 140, 141-147	0.2	1
328	Occurrence of Flux Jumps in MgB ₂ Bulk Magnets during Pulse-Field Magnetization. <i>Journal of Physics: Conference Series</i> , 2020 , 1559, 012024	0.3	1
327	Magnetic Flux Trapping and Flux Jumps in Pulsed Field Magnetizing Processes in REBCO and Mg-B Bulk Magnets. <i>Journal of Physics: Conference Series</i> , 2020 , 1590, 012025	0.3	
326	Recent progress in production of infiltration-growth and melt-growth processed bulk (RE)Ba ₂ Cu ₃ O _y . <i>Superconductor Science and Technology</i> , 2020 , 33, 074002	3.1	2
325	Study on Magnetic Flux Dissipation and Field-Trapping Performance of HTS Bulk-Shaped Magnesium Diboride in Pulse-Field Magnetizing Processes. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-6	1.8	6
324	Improvement of Delamination Strength of REBCO Coated Conductors. <i>Physics Procedia</i> , 2014 , 58, 150-153		3

323	Progress in R&D of coated conductor in M-PACC project. <i>Progress in Superconductivity and Cryogenics (PSAC)</i> , 2014 , 16, 1-6		1
322	Application of a Compact Cryogen-free Superconducting Bulk Magnet to NMR. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , 2011 , 46, 139-148	0.1	21
321	Development of Single-domain Annular REBCO Bulk Superconductors for Compact Cryogen-free NMR. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , 2011 , 46, 131-138	0.1	12
320	Delamination behavior of Gd123 coated conductor fabricated by PLD. <i>Physica C: Superconductivity and Its Applications</i> , 2011 , 471, 1075-1079	1.3	28
319	Investigation of Three-Dimensional Current Distribution at Silver Diffusion Joint of RE-123 Coated Conductors Based on Magnetic Microscopy Combined With Finite Element Method. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 3403-3407	1.8	7
318	Study of HTS Bulk Current Lead With Metal Alloy Impregnation Under Vacuum. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 2214-2217	1.8	3
317	Flux pinning properties in a GdBa ₂ Cu ₃ O ₇ Bulk superconductor with the addition of magnetic alloy particles. <i>Superconductor Science and Technology</i> , 2009 , 22, 095009	3.1	41
316	Transmission Electron Microscopy and Atomic Force Microscopy Observation of Air-Processed GdBa ₂ Cu ₃ O ₇ -Superconductors Doped with Metal Oxide Nanoparticles (Metal = Zr, Zn, and Sn). <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 023002	1.4	8
315	Position feedback control using magneto impedance sensors on conveyor with superconducting magnetic levitation. <i>Sensors and Actuators A: Physical</i> , 2009 , 150, 110-115	3.9	5
314	Observation of record flux pinning in melt-textured NEG-123 superconductor doped by Nb, Mo, and Ti nanoparticles. <i>Physica C: Superconductivity and Its Applications</i> , 2009 , 469, 1196-1199	1.3	5
313	Superconducting magnetic bearing for a flywheel energy storage system using superconducting coils and bulk superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2009 , 469, 1244-1249	1.3	34
312	Solid Phase (RE ₂ BaO ₄) Liquid Phase (BaCuO ₂) Reaction: The Way to Highly Oriented ErBa ₂ Cu ₃ O _y Superconducting Thick Films on Commercial Silver Substrates. <i>Crystal Growth and Design</i> , 2009 , 9, 2404-2408	3.5	3
311	. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 3545-3548	1.8	31
310	Single domain YBCO/Ag bulk superconductors fabricated by seeded infiltration and growth. <i>Journal of Physics: Conference Series</i> , 2008 , 97, 012105	0.3	4
309	Fabrication of large Eu-Ba-Cu-O bulk superconductors for compact NMR magnet. <i>Journal of Physics: Conference Series</i> , 2008 , 97, 012238	0.3	4
308	Homogenizing field-trapping capabilities of bulk YBaCuO superconductors fabricated using BaCuO oxide substrates for practical applications. <i>Superconductor Science and Technology</i> , 2008 , 21, 045012	3.1	1
307	Record flux pinning in melt-textured NEG-123 doped by Mo and Nb nanoparticles. <i>Applied Physics Letters</i> , 2008 , 92, 162512	3.4	51
306	Practical technique of pulsed field magnetization for bulk HTS application. <i>Journal of Physics: Conference Series</i> , 2008 , 97, 012295	0.3	7

305	Thick REBaCuO films for power applications planted on silver tapes. <i>Journal of Physics: Conference Series</i> , 2008 , 97, 012145	0.3	1
304	Homogenizing field-trapping capabilities of bulk Y-Ba-Cu-O superconductors using Ba-Cu-O oxide substrate for practical applications. <i>Journal of Physics: Conference Series</i> , 2008 , 97, 012001	0.3	1
303	Pulsed field magnetization properties for a large single-grain Gd-Ba-Cu-O high-temperature superconductor bulk with a diameter of 140 mm by using a new type of pulsed copper split coil. <i>Journal of Physics: Conference Series</i> , 2008 , 97, 012278	0.3	9
302	Materials processing, pulsed field magnetization and field-pole application to propulsion motors on Gd123 bulk superconductors. <i>Journal of Physics: Conference Series</i> , 2008 , 97, 012299	0.3	4
301	Current progress in ternary LREBa ₂ Cu ₃ O _y materials and their application. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 151, 90-94	3.1	7
300	Quenching characteristics of electrical contacts using YBaCuO bulk superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 1465-1468	1.3	0
299	New method of synthesis and physical properties of thick superconducting Er-123 films. <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 1345-1349	1.3	
298	Effect of ZrO ₂ and ZnO nanoparticles inclusions on superconductive properties of the melt-processed GdBa ₂ Cu ₃ O ₇ bulk superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 1363-1365	1.3	28
297	A study on levitation force and its time relaxation behavior for a bulk superconductor-magnet system. <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 1461-1464	1.3	16
296	The microstructure and properties of single grain bulk Ag-doped YBaCuO fabricated by seeded infiltration and growth. <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 1387-1390	1.3	8
295	Preparation and properties of EuBaCuO superconducting bulk magnets for NMR application. <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 1451-1455	1.3	7
294	Diffusion joint using silver layer of YBCO coated conductors for applications. <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 1571-1574	1.3	19
293	Optimum processing conditions for the fabrication of large, single grain Ag-doped YBCO bulk superconductors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 151, 2-6	3.1	9
292	Force Density of Magnetic Bearings Using Superconducting Coils and Bulk Superconductors. <i>Quarterly Report of RTRI (Railway Technical Research Institute) (Japan)</i> , 2008 , 49, 127-132	0.3	11
291	Role of ZrO ₂ /SnO ₂ Nano-Particles on Superconducting Properties and Microstructure of Melt-Processed Gd123 Superconductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 2980-2983	1.8	2
290	Phase stability of MgO-doped NdBaCuO seed crystals for cold-seeded, OCMG processing. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 463-465, 340-343	1.3	3
289	Evaluation of fatigue properties of bulk ring superconductors for synchrotron radiation sources. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 463-465, 1333-1337	1.3	4
288	Optimization of the diffusion joint process for the Ag layers of YBCO coated conductors. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 463-465, 747-750	1.3	27

287	Magnetic properties of melt-processed large single domain GdBaCuO bulk superconductor 140 mm in diameter. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 460-462, 305-309	1.3	18
286	Magnetic field distributions of stacked large single domain GdBaCuO bulk superconductors exceeding 140mm in diameter. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 463-465, 348-352	1.3	5
285	Enhanced flux pinning of air-processed Gd123 by doping ZrO ₂ nanoparticles. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 460-462, 1341-1342	1.3	25
284	Enhanced flux pinning in GdBaCuO bulk superconductors by Zr dopants. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 463-465, 367-370	1.3	2
283	Electrical contact characteristics of YBaCuO bulk. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 463-465, 1361-1364	1.3	1
282	Potentials of RE-Ba ₂ Cu ₃ O _y in the silver base technology. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 463-465, 314-319	1.3	1
281	An effect of interface condition on electrical contact characteristics using YBaCuO bulk superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 463-465, 415-419	1.3	
280	Enhanced Superconducting Properties of Air-Processed GdBa ₂ Cu ₃ O _{7-δ} Single Domains with BaCO ₃ /BaCuO ₂ Addition. <i>Journal of Superconductivity and Novel Magnetism</i> , 2007 , 20, 309-314	1.5	4
279	Measurements of the levitation forces for a bulk GdBaCuO superconductor in high magnetic fields. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 463-465, 383-386	1.3	6
278	Formation of defects in precursors for melt-textured REBaCuO superconductors and effect of organic binder addition. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 463-465, 308-313	1.3	3
277	Temperature Dependency of Levitation Force and Its Relaxation in HTS. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 3020-3023	1.8	21
276	Defects in Green Bodies during Powder Compression Process for Fabrication of Bulk Superconductors. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , 2007 , 42, 18-23	0.1	1
275	Improvement of the field-trapping capabilities of bulk NdBaCuO superconductors using BaCuO substrates. <i>Superconductor Science and Technology</i> , 2006 , 19, S601-S606	3.1	4
274	Development of cryogenic permanent undulators operating around liquid nitrogen temperature. <i>New Journal of Physics</i> , 2006 , 8, 287-287	2.9	23
273	Recovery of trapped field distribution around a growth sector in a GdBaCuO HTS bulk with pulsed-field magnetization. <i>Superconductor Science and Technology</i> , 2006 , 19, S466-S471	3.1	20
272	Characteristics of metal impregnated bulk GdBaCuO superconductors cooled down in a magnetic field. <i>Superconductor Science and Technology</i> , 2006 , 19, S491-S493	3.1	1
271	Advances in enlargement of melt-textured GdBaCuO superconductors. <i>Superconductor Science and Technology</i> , 2006 , 19, S500-S505	3.1	23
270	Superior growth orientation control via ZnO doping of large-grain LRE-Ba ₂ Cu ₃ O _y compounds grown with MgO seeds. <i>Superconductor Science and Technology</i> , 2006 , 19, S550-S555	3.1	3

269	Contact characteristics of mechanically mated YBaCuO bulks with a deposited metal layer. <i>Superconductor Science and Technology</i> , 2006 , 19, S607-S611	3.1	3
268	Transmission electron microscopy of air-processed Gd123 superconductors with the addition of Gd ₂ Ba ₄ MCuO _x (M = Mo, Zr). <i>Superconductor Science and Technology</i> , 2006 , 19, 1285-1290	3.1	6
267	Contact Resistance Characteristics of High Temperature Superconducting Bulk - Part V 2006 ,		1
266	Flux pinning and orientation control of large grain LREBa ₂ Cu ₃ O _y . <i>Journal of Physics: Conference Series</i> , 2006 , 43, 417-420	0.3	1
265	Microstructure and superconducting properties of meltprocessed RE-Ba-Cu-O with dispersed barium cerate particles. <i>Journal of Physics: Conference Series</i> , 2006 , 43, 373-376	0.3	
264	Improvement of Thermal Stability with Alloy Impregnation in Gd-Ba-Cu-O Superconductors for Pulsed Field Magnetization. <i>Journal of Physics: Conference Series</i> , 2006 , 43, 389-392	0.3	2
263	ZnO doping effects in melt-textured (Nd _{0.33} Eu _{0.39} Gd _{0.27})Ba ₂ Cu ₃ O _y grown from MgO seed. <i>Superconductor Science and Technology</i> , 2006 , 19, L25-L28	3.1	6
262	High performance of air-processed GdBa ₂ Cu ₃ O ₇ -superconductors with fined Gd ₂ BaCuO ₅ and Gd ₂ Ba ₄ CuMoO _x additions. <i>Journal of Physics: Conference Series</i> , 2006 , 43, 454-457	0.3	1
261	Low resistance joint of the YBCO coated conductor. <i>Journal of Physics: Conference Series</i> , 2006 , 43, 166-169	1.3	23
260	Effect of RE ₂ BaCuO ₅ refinement on the critical current density and trapped field of melt-textured (Gd, Y)BaCuO bulk superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 439, 62-66	1.3	32
259	Effect of potassium addition on YBa ₂ Cu ₃ O _x superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 445-448, 128-132	1.3	2
258	Effect of metal impregnation in the field cool magnetization of bulk superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 445-448, 375-378	1.3	5
257	Diffusion joint of YBCO coated conductors using stabilizing silver layers. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 445-448, 686-688	1.3	51
256	Deformation analysis of electrical contact using YBaCuO bulk superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 445-448, 1123-1126	1.3	1
255	Levitation forces of bulk REBaCuO in high magnetic fields. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 445-448, 412-416	1.3	14
254	RE-Ba ₂ Cu ₃ O _y formation mechanism via (RE) ₂ BaO ₄ . <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 445-448, 282-285	1.3	6
253	Flux pinning and superconducting properties of ZnO added (Nd, Eu, Gd)Ba ₂ Cu ₃ O _y . <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 445-448, 403-407	1.3	0
252	Pulsed field magnetization properties for GdBaCuO superconductors impregnated with Bi ₂ Sn ₂ alloy. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 445-448, 408-411	1.3	9

251	Fabrication and superconducting properties of GdBaCuO single-grain bulk with barium cerate addition. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 445-448, 291-294	1.3	6
250	Field trapping property of GdBaCuO bulk superconductor 140mm in diameter. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 445-448, 339-342	1.3	27
249	Flux pinning properties and superconductivity of Gd-123 superconductor with addition of nanosized SnO ₂ /ZrO ₂ particles. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 445-448, 357-360	1.3	31
248	Basic Study on a Magnetically Levitated Conveyor Based on Guiding by Partial Magnetization of a High-Tc Superconductor. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2006 , 126, 248-254	0.2	2
247	Improvement of Field-trapping Capability of High-Tc Bulk Superconductors using a Ba-Cu-O Substrate. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , 2006 , 41, 170-175	1.3	91
246	Nanoscale Gd ₂ BaCuO ₅ particles in (Sm _{0.33} Eu _{0.33} Gd _{0.33})Ba ₂ Cu ₃ O _y and magnetic levitation at 90.2 K. <i>Superconductor Science and Technology</i> , 2005 , 18, L9-L12	3.1	11
245	Development of technology for a reliable fabrication of LRE-123 materials for levitation applications above 80K. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 777-782	1.3	2
244	Nanostripes in SmBa ₂ Cu ₃ O ₇ single crystals: Origin and peak effect. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 441-445	1.3	4
243	Near net shape processing of REBaCuO bulk superconductor by machining binder-added precursors. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 527-531	1.3	3
242	Design of microstructure in melt-textured bulk superconductors with the employment of granules containing ultra-fine Y ₂ BaCuO ₅ particles. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 532-536	1.3	2
241	Effect of YBaCuOM (M = Zr, Sn and Ce) addition on the superconducting properties of melt-textured Y123 bulk. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 537-542	1.3	2
240	Microstructure and superconducting properties of DyBaCuO bulk superconductors fabricated in different oxygen atmospheres. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 660-665	1.3	15
239	Electrical contact characteristics of mechanically mated YBaCuO bulks with deposited metal layer. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 815-820	1.3	
238	Three-dimensional field measurements of levitated HTS and the modeling of the shielding current. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 731-738	1.3	4
237	Solubility and superconductivity of Gd _{1+x} Ba _{2-x} Cu ₃ O ₇ compounds (x=0.1,0,0.05,0.1,0.15 and 0.2). <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 417, 77-84	1.3	14
236	Analysis of mixed ternary LREBa ₂ Cu ₃ O _y nano-structures by STM and TEM. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 196-201	1.3	4
235	Field trapping and magnetic levitation performances of large single-grain GdBaCuO at different temperatures. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 654-659	1.3	14
234	Rotation loss reduction of superconducting magnetic bearings by stacking and rearranging the shape of the bulks. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 821-825	1.3	2

233	Effect of low temperature annealing on doping level and superconducting properties for IBAD/PLD/BCO coated conductor. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 1113-1117	1.3	7
232	Tensile testing method for rare earth based bulk superconductors at liquid nitrogen temperature. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 639-643	1.3	4
231	Fabrication of GdBaCuO bulk superconductors with a cold seeding method. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 543-549	1.3	2
230	Evaluation of magnetic homogeneities of GdBaCuO bulk superconductors by different Hall probe scanning methods. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 632-638	1.3	
229	Effect of preloading on the relaxation of the levitation force in bulk YBaCuO superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 789-793	1.3	8
228	Experiment for growing large GdBaCuOAg bulk superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 515-519	1.3	18
227	Enhanced Jc in air-processed GdBa ₂ Cu ₃ O ₇ superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 613-617	1.3	12
226	Barium cerate as effective flux pinning centers in Y123 bulk materials. <i>Physica C: Superconductivity and Its Applications</i> , 2005 , 426-431, 602-607	1.3	11
225	Effect of Gd ₂ Ba ₄ CuMoO _y addition on the band structure and spatial variation of superconducting properties in GdBa ₂ Cu ₃ O ₇ single domains. <i>Superconductor Science and Technology</i> , 2005 , 18, 1082-1088	3.1	23
224	Angular dependence of the peak effect and out-of-plane modulated compositional order in melt-processed (Sm,Eu,Gd)Ba ₂ Cu ₃ O ₇ superconductors. <i>Superconductor Science and Technology</i> , 2005 , 18, S131-S135	3.1	1
223	Superconducting levitation at 90 K base for construction of non-contact liquid oxygen pumps. <i>Superconductor Science and Technology</i> , 2005 , 18, S47-S51	3.1	2
222	Effect of BaO ₂ and fine Gd ₂ BaCuO ₇ addition on the superconducting properties of air-processed GdBa ₂ Cu ₃ O ₇ . <i>Superconductor Science and Technology</i> , 2005 , 18, 229-233	3.1	40
221	The effect of inhomogeneous flux penetration into bulk superconductor by pulsed field magnetization. <i>Superconductor Science and Technology</i> , 2005 , 18, 1179-1182	3.1	5
220	Melt-processed GdBaCuO superconductor with trapped field of 3 T at 77 K. <i>Superconductor Science and Technology</i> , 2005 , 18, S126-S130	3.1	148
219	The development of melt-processed (Sm,Eu,Gd)Ba ₂ Cu ₃ O ₇ single-domain superconductors for high field applications. <i>Superconductor Science and Technology</i> , 2005 , 18, S52-S57	3.1	4
218	Irreversible field determined by pulsed magnetization and compositional fluctuation of melt-processed (Sm,Eu,Gd)Ba ₂ Cu ₃ O ₇ superconductors. <i>Superconductor Science and Technology</i> , 2005 , 18, 58-63	3.1	7
217	Measurements of three-dimensional fields of bulk superconductors in varying external fields. <i>Superconductor Science and Technology</i> , 2005 , 18, S67-S71	3.1	4
216	Spatial inhomogeneities of Gd-Ba-Cu-O bulk superconductors evaluated by different Hall probe scanning methods. <i>IEEE Transactions on Applied Superconductivity</i> , 2005 , 15, 3640-3643	1.8	7

215	ORIGIN OF ORDERING OSCILLATION OF LOCAL COMPOSITION IN MELT-PROCESSED REBa ₂ Cu ₃ O _{7-δ} SUPERCONDUCTORS (RE: Sm, Eu, Gd). <i>International Journal of Modern Physics B</i> , 2005 , 19, 159-161	1.1	1
214	Processing of high-performance (Gd, Y)-Ba-Cu-O bulk superconductors with fine RE ₂ O ₃ pinning centers. <i>IEEE Transactions on Applied Superconductivity</i> , 2005 , 15, 3110-3113	1.8	10
213	Fabrication and Superconducting Properties of YBa ₂ Cu ₃ O _{7-δ} . DELTA. Bulk Materials with Barium Cerate as Pinning Centers. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , 2005 , 40, 238-242	0.1	2
212	Flux motion in YBaCuO bulk superconductors during pulse field magnetization. <i>Superconductor Science and Technology</i> , 2004 , 17, S74-S78	3.1	
211	Effect of BaO ₂ addition on superconducting properties of melt-processed (Sm,Eu,Gd)Ba ₂ Cu ₃ O _{7-δ} superconductors. <i>Superconductor Science and Technology</i> , 2004 , 17, 545-548	3.1	17
210	Joining of YBaCuO/Ag bulk superconductors using ErBaCuO/Ag solder. <i>Superconductor Science and Technology</i> , 2004 , 17, S46-S50	3.1	7
209	Effects of subgrains on critical current properties in melt-processed REBaCuO bulk superconductors. <i>Superconductor Science and Technology</i> , 2004 , 17, S61-S65	3.1	7
208	Pinning centres in NEG-123 active at liquid oxygen temperature (90.2 K). <i>Superconductor Science and Technology</i> , 2004 , 17, S66-S69	3.1	9
207	Effect of nanoscopic ZrO ₂ particles on flux pinning in (Nd, Eu, Gd)-123/Gd-211 composites. <i>Superconductor Science and Technology</i> , 2004 , 17, 1129-1132	3.1	11
206	Direct observation and analysis of nanoscale precipitates in (Sm,Eu,Gd)Ba ₂ Cu ₃ O _y . <i>Applied Physics Letters</i> , 2004 , 85, 3504-3506	3.4	45
205	Fracture toughness of Sm123 bulk superconductors evaluated by tensile and bending tests. <i>IEEE Transactions on Applied Superconductivity</i> , 2004 , 14, 1046-1049	1.8	9
204	Deformation and fracture behavior of Sm123 bulk superconductors by compressive loading at room temperature. <i>IEEE Transactions on Applied Superconductivity</i> , 2004 , 14, 1114-1117	1.8	12
203	High-T/sub c/ superconducting magnets that function at liquid oxygen temperature. <i>IEEE Transactions on Applied Superconductivity</i> , 2004 , 14, 1206-1209	1.8	6
202	Air processing of ternary (Sm,Eu,Gd)Ba ₂ Cu ₃ O _{7-δ} superconductors with enhanced peak effects. <i>Physica C: Superconductivity and Its Applications</i> , 2004 , 402, 127-135	1.3	8
201	Processing of high-performance (Sm,Eu,Gd)Ba ₂ Cu ₃ O _{7-δ} bulk superconductors with BaO ₂ addition. <i>Physica C: Superconductivity and Its Applications</i> , 2004 , 412-414, 571-574	1.3	
200	Magnetic levitation in liquid oxygen and its applications. <i>Physica C: Superconductivity and Its Applications</i> , 2004 , 412-414, 739-743	1.3	7
199	Effects of Dy ₂ BaCuO ₅ contents on microstructure and mechanical strength of Ag-added DyBaCuO bulk superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2004 , 412-414, 651-656	1.3	27
198	Low temperature mechanical properties of Y123 bulk superconductor fabricated by the modified QMG process. <i>Physica C: Superconductivity and Its Applications</i> , 2004 , 412-414, 673-677	1.3	14

197	Mechanical properties of YBaCu blocks welded by silver added YBaCu solder. <i>Physica C: Superconductivity and Its Applications</i> , 2004 , 412-414, 678-682	1.3	3
196	Numerical simulation of a bulk superconductor during pulsed field magnetization. <i>Physica C: Superconductivity and Its Applications</i> , 2004 , 412-414, 695-698	1.3	4
195	Magnetization measurement of (Nd, Eu, Gd)Ba ₂ Cu ₃ O _y having very high irreversibility fields in pulsed high magnetic fields. <i>Physica C: Superconductivity and Its Applications</i> , 2004 , 412-414, 699-703	1.3	
194	Optimization of ternary LREBaCu materials for use at liquid oxygen temperature. <i>Physica C: Superconductivity and Its Applications</i> , 2004 , 412-414, 575-579	1.3	2
193	Magnetization properties for GdBaCu bulk superconductors with a couple of pulsed-field vortex-type coils. <i>Physica C: Superconductivity and Its Applications</i> , 2004 , 412-414, 638-645	1.3	57
192	High critical current density in REBaCu bulk superconductors with very fine RE ₂ BaCuO ₅ particles. <i>Physica C: Superconductivity and Its Applications</i> , 2004 , 412-414, 557-565	1.3	60
191	Joining of different YBaCu blocks. <i>Physica C: Superconductivity and Its Applications</i> , 2004 , 402, 119-126	1.3	11
190	High critical current density in YBaCu bulk superconductors with very fine Y ₂ 11 particles. <i>Superconductor Science and Technology</i> , 2004 , 17, S30-S35	3.1	65
189	Peak effect with tilted fields in melt-processed (Sm, Eu, Gd)Ba ₂ Cu ₃ O _{7-x} superconductors. <i>Superconductor Science and Technology</i> , 2004 , 17, S56-S60	3.1	3
188	Fracture toughness of SmBaCuO bulk superconductors at cryogenic temperatures. <i>IEEE Transactions on Applied Superconductivity</i> , 2004 , 14, 1118-1121	1.8	8
187	Critical Current Density and Trapped Field Properties of Ho-Ba-Cu-O Bulk Superconductors. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2004 , 68, 693-697	0.4	
186	Single-grain growth, microstructure and superconducting properties of (Sm, Eu) ₁₂₃ superconductors with BaCuO ₂ addition. <i>Superconductor Science and Technology</i> , 2003 , 16, 33-38	3.1	19
185	Progress in melt-processed (Nd[Sm][Gd])Ba ₂ Cu ₃ O _y superconductors. <i>Superconductor Science and Technology</i> , 2003 , 16, R1-R16	3.1	35
184	Mechanical properties of NdBaCu bulk superconductors. <i>Superconductor Science and Technology</i> , 2003 , 16, 1086-1091	3.1	12
183	Levitation of NEG-123 at the temperature of liquid oxygen (90.2 K). <i>Superconductor Science and Technology</i> , 2003 , 16, L46-L48	3.1	28
182	Superconducting properties and microstructures of ErBaCu superconductor. <i>Superconductor Science and Technology</i> , 2003 , 16, 699-706	3.1	5
181	E-J characteristics and n value of melt-textured REBa ₂ /Cu ₃ /O _x (RE: Nd, Y). <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 3109-3112	1.8	4
180	Effect of Nd ₄₂₂ addition on the mechanical properties of NdBaCu bulk superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 384, 391-398	1.3	7

179	The crystallization in the welding region for YBaCuO bulk superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 386, 495-499	1.3	1
178	Subgrain structures and superconductivity in REBaCuO bulk superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 386, 225-230	1.3	7
177	Large grain growth and superconducting properties of GdBa ₂ Cu ₃ O _{7-x} fabricated in air with BaCuO ₂ addition. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 386, 275-278	1.3	13
176	Scanning tunneling microscopy studies of high J _c NEG123 crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 388-389, 297-298	1.3	
175	Pinning properties of GdBaCuO bulk superconductor fabricated by cold seeding method. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 388-389, 407-408	1.3	5
174	Effect of Ag addition on cold-seeded melt-growth of GdBaCuO superconductor using Nd123 seed crystal. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 392-396, 468-472	1.3	4
173	Thermal conductivity of superconducting joint of YBaCuO bulk materials. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 392-396, 669-672	1.3	
172	Fracture toughness evaluation of YBCO bulk superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 392-396, 628-633	1.3	25
171	Pulsed field magnetization of large-grain GdBaCuO bulk superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 392-396, 585-588	1.3	3
170	Mechanical properties of SmBaCuO bulk superconductors at room temperature. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 392-396, 557-561	1.3	16
169	Effects of Ag content on the mechanical properties of (Nd,Eu,Gd)BaCuO bulk superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 392-396, 526-530	1.3	13
168	Superconducting properties of melt-textured REBaCuO (RE: Ho, Er and Y) bulk superconductors with various RE211 contents. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 392-396, 516-520	1.3	11
167	Welding of different YBaCuO blocks. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 392-396, 437-440	1.3	5
166	Fabrication of large-grain bulk superconductors in microgravity environment. <i>Acta Astronautica</i> , 2003 , 53, 35-43	2.9	5
165	Mechanical properties of YBaCuO blocks welded by ErBaCuO solder. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 392-396, 673-676	1.3	6
164	Microstructure and flux pinning of OCMG processed (Sm _{0.33} Eu _{0.33} Gd _{0.33})Ba ₂ Cu ₃ O _y with sub-micron Gd ₂ BaCuO ₅ second phase particles. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 392-396, 619-622	1.3	5
163	Recent progress in melt-processed (NdSmGd)Ba ₂ Cu ₃ O _y superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 392-396, 473-478	1.3	1
162	Spatial variation of superconducting properties and compositional fluctuation in large melt-processed (SmEu) ₁₂₃ single domains. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 392-396, 571-574	1.3	3

161	Superconductors for high-field use at 77 K. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 392-396, 567-570	1.3	3
160	Levitation forces of bulk superconductors in varying fields. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 392-396, 579-584	1.3	10
159	The modulation of the peak effect in melt-processed (Sm-Eu) ₁₂₃ superconductors with compositional fluctuations. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 3755-3758	1.8	4
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157	Pinning characteristics in chemically modified (Nd, Eu, Gd)BaCuO ₇ superconductors. <i>Applied Physics Letters</i> , 2003 , 82, 943-945	3.4	38
156	Magnetic and microstructure study of bulk (Sm _{0.33} Eu _{0.33} Gd _{0.33})Ba ₂ Cu ₃ O _y with submicron Gd ₂ BaCuO ₅ second-phase particles. <i>Journal of Materials Research</i> , 2003 , 18, 1073-1080	2.5	10
155	Hot-seeding melt growth of large (Sm-Eu) ₁₂₃ single domains in air with controlled chemical substitutions. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 3079-3082	1.8	7
154	Vortex pinning by mesoscopic defects: A way to levitation at liquid oxygen temperature. <i>Applied Physics Letters</i> , 2003 , 83, 5005-5007	3.4	41
153	Melt processing of single domain (Sm _{0.5} Eu _{0.5})Ba ₂ Cu ₃ O ₇ superconductors with high performance in air. <i>AIP Conference Proceedings</i> , 2002 ,	0	5
152	Effect of Silver Addition on the Mechanical and Field Trapping Properties of Gd-Ba-Cu-O Bulk Superconductors. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2002 , 66, 309-314	0.4	6
151	Subgrain Structures in RE ₁₂₃ Bulk Superconductors. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2002 , 66, 302-308	0.4	
150	Microstructures and superconducting properties of single domain (Sm _{0.5} ,Eu _{0.5})Ba ₂ Cu ₃ O ₇ superconductors fabricated in air. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 366, 157-163	1.3	23
149	Pinning properties in melt-processed YbBa ₂ Cu ₃ O ₇ with finely dispersed Yb ₂ BaCuO ₅ inclusions. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 366, 229-237	1.3	7
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147	Superconducting joint of YBaCuO superconductors using ErBaCuO solder. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 370, 53-58	1.3	32
146	J _c characteristics of melt-textured RE ₁₂₃ (RE: Nd, Y) superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 378-381, 503-507	1.3	2
145	Strong coupled joint for YBaCuO superconductors using a sintered ErBaCuO solder. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 378-381, 622-626	1.3	6
144	Development of GdBaCuO bulk magnets with very high trapped magnetic field. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 378-381, 631-635	1.3	41

143	Effect of the surface orientation on the microstructure of bulk YBaCuO joint. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 378-381, 641-645	1.3	3
142	Fabrication and characterization of LRE _{1+x} Ba _{2-x} Cu ₃ O _y (LRE: Nd, Eu, Gd, NEG) superconductors: a low oxygen partial pressure. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 378-381, 646-650	1.3	4
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140	Influence of initial composition on the flux pinning of melt-processed (Sm _x Eu _{1-x})Ba ₂ Cu ₃ O _{7-δ} . <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 378-381, 692-696	1.3	2
139	Stress-strain characteristics and fracture surface morphology of (Sm,Gd)BaCuO bulk superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 378-381, 722-726	1.3	15
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137	Effect of Nd ₄₂₂ content on the trapped fields of NdBaCuO bulk superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 378-381, 732-737	1.3	7
136	High flux pinning in ternary (NdEuCu)Ba ₂ Cu ₃ O _y superconductors at 77 K. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 378-381, 750-754	1.3	1
135	Trapped magnetic field of GdBaCuO/Ag bulk fabricated in air. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 378-381, 764-768	1.3	7
134	Effect of silver addition on the field trapping properties of GdBaCuO bulk superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 378-381, 774-778	1.3	11
133	Mechanical properties of melt-textured GdBaCuO bulk with silver addition. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 378-381, 779-782	1.3	28
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131	New type of vortex pinning structure effective at very high magnetic fields. <i>Physical Review Letters</i> , 2002 , 89, 237001	7.4	164
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128	Subgrains in large-grain RE ₁₂₃ bulk superconductors. <i>Superconductor Science and Technology</i> , 2002 , 15, 791-795	3.1	5
127	Joining Y ₁₂₃ bulk superconductors using Yb-Ba-Cu-O and Er-Ba-Cu-O solders. <i>Superconductor Science and Technology</i> , 2002 , 15, 712-716	3.1	33
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125	Tensile strength and fracture surface topography of Sm–Ba–Cu–O bulk superconductors. <i>Superconductor Science and Technology</i> , 2002 , 15, 1099-1104	3.1	13
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120	Refinement of RE ₂ 11 particles in melt-textured RE–Ba–Cu–O bulk superconductors. <i>Superconductor Science and Technology</i> , 2002 , 15, 679-682	3.1	18
119	Melt processing and enhanced superconducting properties of single domain (Sm _{0.5} Eu _{0.5}) ₁₂₃ superconductors fabricated in air. <i>Superconductor Science and Technology</i> , 2002 , 15, 675-678	3.1	10
118	An evaluation of mechanical properties of YBaCuO and (Sm,Gd)BaCuO bulk superconductors using Vickers hardness test at cryogenic temperatures. <i>IEEE Transactions on Applied Superconductivity</i> , 2002 , 12, 1755-1758	1.8	12
117	Trapped-field of RE-123 (RE=Gd,Dy) bulk superconducting magnets. <i>AIP Conference Proceedings</i> , 2002 ,	0	6
116	Recent Research and Development on Bulk Superconducting Materials.. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , 2002 , 37, 589-600	0.1	3
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110	A comparative study of enhanced flux pinning among melt-processed SmBa ₂ Cu ₃ O ₇ (Sm _{0.5} Eu _{0.5})Ba ₂ Cu ₃ O ₇ –EuBa ₂ Cu ₃ O ₇ superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 357-360, 461-465	1.3	14
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105	Cold seeded melt growth of REBaCuO superconductor (RE=Gd, Y). <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 357-360, 706-708	1.3	14
104	J _c characteristics of NdBa ₂ Cu ₃ O _{7-δ} bulk superconductor determined with ac susceptibility. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 357-360, 531-533	1.3	10
103	Processing of GdBa ₂ Cu ₃ O _{7-δ} bulk superconductor and its trapped magnetic field. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 357-360, 629-634	1.3	36
102	Single-domain NEG bulk superconductors for high magnetic field applications. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 357-360, 661-664	1.3	3
101	Vickers hardness properties of YBCO bulk superconductor at cryogenic temperatures. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 357-360, 796-798	1.3	39
100	Preparation and properties of OCMG-processed GdBaCuO bulk superconductors with very fine Gd ₂ 11 particles. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 357-360, 811-813	1.3	42
99	Enhancement of critical current density of DyBaCuO bulk superconductor by the refinement of Dy ₂ 11 particles. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 357-360, 814-816	1.3	22
98	Effect of microstructure on the superconducting properties of GdBaCuO bulk fabricated in air. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 357-360, 817-820	1.3	8
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90	Mechanical properties of REBaCuO bulk superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 335, 107-111	1.3	52

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85	Mechanical properties of Sm-Ba-Cu-O/Ag bulk superconductors. <i>Superconductor Science and Technology</i> , 2000 , 13, 770-773	3.1	57
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40	Effect of Processing Conditions on the Melt Processed La ₁₂₃ Superconductor 1997 , 709-712		1
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38	Melt Processing for Sm ₁₂₃ Bulk Superconductors 1997 , 773-776		
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33	NdBa ₂ Cu ₃ O _y Single Crystals Fabricated by Flux Method in Low Oxygen Partial Pressures 1996 , 719-722		2
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31	Mechanical Properties of OCMG-Processed Nd-Ba-Cu-O Superconductors 1996 , 723-726		1
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24	. <i>IEEE Transactions on Applied Superconductivity</i> , 1995 , 5, 1568-1571	1.8	47
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22	Preferential Formation of High T _c Phase in Nd-Ba-Cu-O Superconductors Melt-Processed in Reduced Oxygen Atmospheres 1995 , 705-708		4
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