

# Akiyasu Yamamoto

## 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.

145  
papers

3,931  
citations

32  
h-index

59  
g-index

154  
ext. papers

4,289  
ext. citations

2.9  
avg, IF

5.11  
L-index

#	Paper	IF	Citations
145	Recent Advances in Research and Development of MgB <sub>2</sub> Superconducting Bulks. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , <b>2022</b> , 57, 3-8	0.1	
144	Thickness Dependence of Trapped Magnetic Fields in Machined Bulk MgB <sub>2</sub> Superconductors. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2022</b> , 32, 1-4	1.8	1
143	Efficient estimation of material parameters using DMC-BO: Application to phase-field simulation of solid-state sintering. <i>Materials Today Communications</i> , <b>2022</b> , 30, 103089	2.5	1
142	Enhanced critical current density in K-doped Ba122 polycrystalline bulk superconductors via fast densification.. <i>IScience</i> , <b>2022</b> , 25, 103992	6.1	0
141	BOXVIA: Bayesian optimization executable and visualizable application. <i>SoftwareX</i> , <b>2022</b> , 18, 101019	2.7	
140	Crystalline boron monosulfide nanosheets with tunable bandgaps. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 24631-24640	13	3
139	Realization of epitaxial thin films of the superconductor K-doped BaFe <sub>2</sub> As <sub>2</sub> . <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	1
138	Thermal response of the iron-based Ba122 superconductor to in situ and ex situ processes. <i>Superconductor Science and Technology</i> , <b>2021</b> , 34, 034004	3.1	1
137	Estimation of solid-state sintering and material parameters using phase-field modeling and ensemble four-dimensional variational method. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2021</b> , 29, 065012	2	2
136	Quantitative analysis of meandering and dimensional crossover of conduction path in 3D disordered media by percolation modeling. <i>Superconductor Science and Technology</i> , <b>2020</b> , 33, 074004	3.1	
135	Preface to the special issue Focus on 10 Years of Iron-Based Superconductors. <i>Superconductor Science and Technology</i> , <b>2020</b> , 33, 090301	3.1	1
134	Grain boundary characteristics of Fe-based superconductors. <i>Superconductor Science and Technology</i> , <b>2020</b> , 33, 043001	3.1	10
133	Trapped magnetic field and levitation force properties of multi-seeded YBCO superconductors with different seed distance. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 829, 154400	5.7	10
132	Recent Progress on the Development of High Temperature Superconducting Bulk Materials. <i>IEEE Transactions on Power and Energy</i> , <b>2020</b> , 140, 141-147	0.2	1
131	From a fascinating phenomenon towards an enabling technology: a breakthrough for higher and more reliable field trapping in HTS bulks. <i>Superconductor Science and Technology</i> , <b>2020</b> , 33, 120501	3.1	
130	Evolution of intergranular microstructure and critical current properties of polycrystalline Co-doped BaFe <sub>2</sub> As <sub>2</sub> through high-energy milling. <i>Superconductor Science and Technology</i> , <b>2020</b> , 33, 094010	3.1	7
129	The formation of defects and their influence on inter- and intra-granular current in sintered polycrystalline 122 phase Fe-based superconductors. <i>Superconductor Science and Technology</i> , <b>2019</b> , 32, 084003	3.1	10

128	Semimetallicity of free-standing hydrogenated monolayer boron from MgB <sub>2</sub> . <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	15
127	Three-dimensional phase-field simulation of microstructure formation during solid-state sintering in polycrystalline superconducting materials. <i>The Proceedings of the Computational Mechanics Conference</i> , <b>2019</b> , 2019.32, 034	0	
126	Development of Highly Pure Polycrystalline Superconducting MgB <sub>2</sub> Bulks by Mg Vapor Transport (MVT) Method. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2019</b> , 83, 341-345	0.4	1
125	Enhanced upper critical field in Co-doped Ba122 superconductors by lattice defect tuning. <i>APL Materials</i> , <b>2019</b> , 7, 111107	5.7	9
124	Effect of the premixing of MgB <sub>2</sub> powder on microstructures and electromagnetic properties in PIT-processed MgB <sub>2</sub> wires. <i>Materials Research Express</i> , <b>2019</b> , 6, 026003	1.7	3
123	Recent advances in iron-based superconductors toward applications. <i>Materials Today</i> , <b>2018</b> , 21, 278-302	21.8	200
122	High Trapped Fields in C-doped MgB Bulk Superconductors Fabricated by Infiltration and Growth Process. <i>Scientific Reports</i> , <b>2018</b> , 8, 13320	4.9	19
121	Formation Mechanism of Boron-Based Nanosheet through the Reaction of MgB <sub>2</sub> with Water. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 10587-10593	3.8	33
120	High-performance dense MgB <sub>2</sub> superconducting wire fabricated from mechanically milled powder. <i>Superconductor Science and Technology</i> , <b>2017</b> , 30, 044006	3.1	34
119	Microstructural evolution in infiltration-growth processed MgB <sub>2</sub> bulk superconductors. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 2451-2460	3.8	10
118	Numerical modelling of iron-pnictide bulk superconductor magnetization. <i>Superconductor Science and Technology</i> , <b>2017</b> , 30, 105009	3.1	8
117	Selective mass enhancement close to the quantum critical point in BaFe(As P). <i>Scientific Reports</i> , <b>2017</b> , 7, 4589	4.9	6
116	Chemically and Mechanically Engineered Flux Pinning for Enhanced Electromagnetic Properties of MgB <sub>2</sub> . <i>Springer Series in Materials Science</i> , <b>2017</b> , 65-108	0.9	1
115	Development of Iron-based Superconducting Bulk Magnet. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , <b>2017</b> , 52, 397-404	0.1	
114	Small grains: a key to high-field applications of granular Ba-122 superconductors?. <i>Superconductor Science and Technology</i> , <b>2016</b> , 29, 025004	3.1	37
113	A trapped magnetic field of 3 T in homogeneous, bulk MgB <sub>2</sub> superconductors fabricated by a modified precursor infiltration and growth process. <i>Superconductor Science and Technology</i> , <b>2016</b> , 29, 035008	3.1	20
112	Microstructural connectivity in sintered ex-situ MgB <sub>2</sub> bulk superconductors. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 656, 172-180	5.7	11
111	Multi-scale Observation of Grain Structure in Iron-based Superconductor. <i>Materia Japan</i> , <b>2016</b> , 55, 600-600		1

110	Development of Polycrystalline Bulk MgB <sub>2</sub> Superconducting Magnet by Hot-pressing. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2016</b> , 80, 457-461	0.4	3
109	Bulk MgB <sub>2</sub> Permanent Magnets. <i>Asian Journal of Social Science Studies</i> , <b>2016</b> , 537-548	1.3	
108	A defect detection method for MgB <sub>2</sub> superconducting and iron-based Ba(Fe,Co) <sub>2</sub> As <sub>2</sub> wires. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 152601	3.4	11
107	Electromagnetic properties and microstructures of in situ MgB <sub>2</sub> wires made from three types of boron powders. <i>Superconductor Science and Technology</i> , <b>2016</b> , 29, 105016	3.1	7
106	Dependences on RE of superconducting properties of transition metal co-doped (Ca,RE)FeAs <sub>2</sub> with RE= La, Gd. <i>Physica C: Superconductivity and Its Applications</i> , <b>2015</b> , 518, 14-17	1.3	6
105	Microstructural Characteristics of Ball-Milled Self-Sintered Ex Situ MgB <sub>2</sub> Bulks. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2015</b> , 25, 1-5	1.8	5
104	Co and Mn doping effect in polycrystalline (Ca,La) and (Ca,Pr)FeAs <sub>2</sub> superconductors. <i>Superconductor Science and Technology</i> , <b>2015</b> , 28, 065001	3.1	20
103	Enhanced trapped field in MgB <sub>2</sub> bulk magnets by tuning grain boundary pinning through milling. <i>Superconductor Science and Technology</i> , <b>2015</b> , 28, 055016	3.1	23
102	Demonstration of an iron-pnictide bulk superconducting magnet capable of trapping over 1 T. <i>Superconductor Science and Technology</i> , <b>2015</b> , 28, 112001	3.1	40
101	One-step growth of SmFeAs(O,F) films by molecular beam epitaxy using FeF <sub>2</sub> as a fluorine source. <i>Superconductor Science and Technology</i> , <b>2015</b> , 28, 015005	3.1	16
100	Numerical modelling and comparison of MgB <sub>2</sub> bulks fabricated by HIP and infiltration growth. <i>Superconductor Science and Technology</i> , <b>2015</b> , 28, 075009	3.1	22
99	Systematic change of flux pinning in (Dy,RE) <sub>123</sub> and (Y,RE) <sub>123</sub> melt-solidified bulks with unit cell orthorhombicity. <i>Superconductor Science and Technology</i> , <b>2015</b> , 28, 015014	3.1	7
98	Synthesis of dense bulk MgB <sub>2</sub> by an infiltration and growth process. <i>Superconductor Science and Technology</i> , <b>2015</b> , 28, 015012	3.1	19
97	A new layered iron arsenide superconductor: (Ca,Pr)FeAs <sub>2</sub> . <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 846-9	16.4	92
96	Dramatic effects of chlorine doping on J <sub>c</sub> and microstructure of fluorine-free MOD Y123 thin films. <i>Superconductor Science and Technology</i> , <b>2014</b> , 27, 095017	3.1	10
95	Effects of post-annealing and cobalt co-doping on superconducting properties of (Ca,Pr)Fe <sub>2</sub> As <sub>2</sub> single crystals. <i>Physica C: Superconductivity and Its Applications</i> , <b>2014</b> , 505, 1-5	1.3	8
94	Self-sintering-assisted high intergranular connectivity in ball-milled ex situ MgB <sub>2</sub> bulks. <i>Superconductor Science and Technology</i> , <b>2014</b> , 27, 114001	3.1	12
93	Enhancement of intergranular current density of Sm-based oxypnictide superconductors with Sn addition. <i>Superconductor Science and Technology</i> , <b>2014</b> , 27, 085010	3.1	8

92	Magnetic microscopy for characterization of local critical current in iron-sheathed MgB <sub>2</sub> wires. <i>Physica C: Superconductivity and Its Applications</i> , <b>2014</b> , 504, 62-64	1.3	8
91	Influences of material processing on the microstructure and inter-granular current properties of polycrystalline bulk Ba(Fe,Co) <sub>2</sub> As <sub>2</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2014</b> , 504, 28-32	1.3	9
90	Effects of phosphorous doping on the superconducting properties of SmFeAs(O,F). <i>Physica C: Superconductivity and Its Applications</i> , <b>2014</b> , 504, 19-23	1.3	2
89	Mechanism for high critical current density in situ MgB <sub>2</sub> wire with large area-reduction ratio. <i>Superconductor Science and Technology</i> , <b>2014</b> , 27, 055003	3.1	17
88	Roles of intrinsic anisotropy and band pairbreaking effects on critical currents in tilted-c-axis MgB <sub>2</sub> films probed by magneto-optical and transport measurements. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	7
87	Permanent magnet with MgB <sub>2</sub> bulk superconductor. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 032601	3.4	73
86	Synthesis and physical properties of Ca <sub>1-x</sub> RE <sub>x</sub> FeAs <sub>2</sub> with RE = La, Gd. <i>Applied Physics Express</i> , <b>2014</b> , 7, 073102	2.4	33
85	Understanding routes for high connectivity in situ MgB <sub>2</sub> by self-sintering. <i>Superconductor Science and Technology</i> , <b>2014</b> , 27, 044012	3.1	8
84	Recent developments in melt processed Gd-123 and MgB <sub>2</sub> materials at RTRI. <i>Physica C: Superconductivity and Its Applications</i> , <b>2014</b> , 496, 5-10	1.3	5
83	Effects of Mn and Ni doping on the superconductivity of SmFeAs(O,F). <i>Physica C: Superconductivity and Its Applications</i> , <b>2013</b> , 494, 57-61	1.3	16
82	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2013</b> , 23, 7300605-7300605	1.8	26
81	Synthesis of Bi <sub>2</sub> 223 by Low $P_{O_2}$ Sintering. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2013</b> , 23, 6400604-6400604	1.8	7
80	Synthesis of Denser In Situ $MgB_2$ Bulks Using $MgB_4$ Precursor. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2013</b> , 23, 7101005-7101005	1.8	4
79	Critical Current Properties of $c$ -Axis Oriented Hg(Re) <sub>1223</sub> Bulks. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2013</b> , 23, 6800404-6800404	1.8	
78	Significant enhancement of the intergrain coupling in lightly F-doped SmFeAsO superconductors. <i>Superconductor Science and Technology</i> , <b>2013</b> , 26, 065006	3.1	10
77	Irreversibility lines of layered Fe-based superconductors with thick blocking layers. <i>Solid State Communications</i> , <b>2012</b> , 152, 640-643	1.6	5
76	Effect of Packing Density on Critical Current Density at High Magnetic Fields in Polycrystalline $MgB_2$ Superconductors. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 123103	1.4	3
75	Synthesis of RE <sub>123</sub> Melt-Solidified Bulks under Low Pressure Pure Oxygen. <i>Physics Procedia</i> , <b>2012</b> , 36, 568-571		1

74	Critical Current Properties of c-Axis Oriented Bi(Pb)2223 Bulks Sintered under High Gas Pressures. <i>Physics Procedia</i> , <b>2012</b> , 36, 665-668		3
73	New Layered Nickel Arsenides (Ni2As2)(Ba3Sc2O5), (Ni2As2)(Ba4Sc2O6) and (Ni2As2)(Ba4Sc3O8). <i>Physics Procedia</i> , <b>2012</b> , 36, 727-730		0
72	Strongly connected ex situ MgB <sub>2</sub> polycrystalline bulks fabricated by solid-state self-sintering. <i>Superconductor Science and Technology</i> , <b>2012</b> , 25, 115022	3.1	37
71	High-T <sub>c</sub> and high-J <sub>c</sub> SmFeAs(O,F) films on fluoride substrates grown by molecular beam epitaxy. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1434, 45		1
70	Towards the Realization of Higher Connectivity in MgB <sub>2</sub> Conductors: In-situ or Sintered Ex-situ?. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 010105	1.4	8
69	Growth of superconducting SmFeAs(O, F) epitaxial films by F diffusion. <i>Superconductor Science and Technology</i> , <b>2012</b> , 25, 035007	3.1	22
68	Towards the Realization of Higher Connectivity in MgB <sub>2</sub> Conductors: In-situ or Sintered Ex-situ?. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 010105	1.4	15
67	Effect of Packing Density on Critical Current Density at High Magnetic Fields in Polycrystalline MgB <sub>2</sub> Superconductors. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 123103	1.4	
66	The behavior of grain boundaries in the Fe-based superconductors. <i>Reports on Progress in Physics</i> , <b>2011</b> , 74, 124511	14.4	112
65	Simple Route to Grow High-Quality MgB <sub>2</sub> Thin Films by Pyrolysis of Decaborane (B <sub>10</sub> H <sub>14</sub> ) in Mg Vapor. <i>Applied Physics Express</i> , <b>2011</b> , 4, 073101	2.4	7
64	High-T <sub>c</sub> and high-J <sub>c</sub> SmFeAs(O,F) films on fluoride substrates grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 232505	3.4	51
63	Evidence for electromagnetic granularity in polycrystalline Sm1111 iron-pnictides with enhanced phase purity. <i>Superconductor Science and Technology</i> , <b>2011</b> , 24, 045010	3.1	37
62	A novel approach to the manipulation of body-parts ownership using a bilateral master-slave system <b>2011</b> ,		9
61	Template engineering of Co-doped BaFe <sub>2</sub> As <sub>2</sub> single-crystal thin films. <i>Nature Materials</i> , <b>2010</b> , 9, 397-402		173
60	Disorder effects and current percolation in FeAs-based superconductors. <i>Superconductor Science and Technology</i> , <b>2010</b> , 23, 054006	3.1	10
59	A new homologous series of iron pnictide oxide superconductors (Fe <sub>2</sub> As <sub>2</sub> )(Ca <sub>n</sub> +2(Al, Ti) <sub>n</sub> O <sub>y</sub> ) (n= 2, 3, 4). <i>Superconductor Science and Technology</i> , <b>2010</b> , 23, 115005	3.1	56
58	Development of c-Axis Oriented MgB <sub>2</sub> Bulks by Magnetic Field Orientation Method. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2010</b> , 74, 428-433	0.4	3
57	Relationship between Current Transport Properties and the Microstructure in a Random Polycrystalline Fe-Oxypnictide Bulk. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2010</b> , 74, 444-452	0.4	2

56	New Fe-based superconductors: properties relevant for applications. <i>Superconductor Science and Technology</i> , <b>2010</b> , 23, 034003	3.1	228
55	Disorder induced effects on the critical current density of iron pnictide BaFe <sub>1.8</sub> Co <sub>0.2</sub> As <sub>2</sub> single crystals. <i>Physica C: Superconductivity and Its Applications</i> , <b>2010</b> , 470, S452-S453	1.3	2
54	Critical current properties at high magnetic fields in polycrystalline MgB <sub>2</sub> superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>2010</b> , 470, 1406-1410	1.3	5
53	Interpretation of X-Ray Line Profile of Polycrystalline $\text{MgB}_2$ . <i>IEEE Transactions on Applied Superconductivity</i> , <b>2009</b> , 19, 2690-2693	1.8	1
52	Small anisotropy, weak thermal fluctuations, and high field superconductivity in Co-doped iron pnictide Ba(Fe <sub>1-x</sub> Cox) <sub>2</sub> As <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2009</b> , 94, 062511	3.4	300
51	Intergrain current flow in a randomly oriented polycrystalline SmFeAsO <sub>0.85</sub> oxypnictide. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 142502	3.4	67
50	Development of high critical current density in multifilamentary round-wire Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ by strong overdoping. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 152516	3.4	31
49	Effects of disorder on the superconducting properties of BaFe <sub>1.8</sub> Co <sub>0.2</sub> As <sub>2</sub> single crystals. <i>Superconductor Science and Technology</i> , <b>2009</b> , 22, 095011	3.1	20
48	High-field phase-diagram of Fe arsenide superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>2009</b> , 469, 566-574	1.3	26
47	Weak-link behavior of grain boundaries in superconducting Ba(Fe <sub>1-x</sub> Cox) <sub>2</sub> As <sub>2</sub> bicrystals. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 212505	3.4	151
46	Combined microstructural and magneto-optical study of current flow in polycrystalline forms of Nd and Sm Fe-oxypnictides. <i>Superconductor Science and Technology</i> , <b>2009</b> , 22, 015010	3.1	41
45	Neutron irradiation of SmFeAsO <sub>1-x</sub> F <sub>x</sub> . <i>Superconductor Science and Technology</i> , <b>2009</b> , 22, 065015	3.1	14
44	Evidence for two distinct scales of current flow in polycrystalline Sm and Nd iron oxypnictides. <i>Superconductor Science and Technology</i> , <b>2008</b> , 21, 095008	3.1	118
43	Essential factors for the critical current density in superconducting MgB <sub>2</sub> : connectivity and flux pinning by grain boundaries. <i>Superconductor Science and Technology</i> , <b>2008</b> , 21, 015008	3.1	66
42	Evidence for electromagnetic granularity in the polycrystalline iron-based superconductor LaO <sub>0.89</sub> F <sub>0.11</sub> FeAs. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 252501	3.4	58
41	Dramatic effects of Ag addition on low temperature synthesis of MgB <sub>2</sub> . <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 97, 012255	0.3	7
40	Liquid dependence of microstructuring on paraffin substrate using submerged laser heating. <i>Applied Physics A: Materials Science and Processing</i> , <b>2008</b> , 91, 445-450	2.6	
39	Critical current density and flux pinning in superconducting MgB <sub>2</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2008</b> , 468, 1833-1835	1.3	8

38	Limiting factors of normal-state conductivity in superconducting MgB <sub>2</sub> : an application of mean-field theory for a site percolation problem. <i>Superconductor Science and Technology</i> , <b>2007</b> , 20, 658-666	3.1	133
37	How to improve critical current properties of Bi2223 and MgB <sub>2</sub> tapes. <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 463-465, 802-806	1.3	4
36	J <sub>c</sub> enhancement of high density MgB <sub>2</sub> bulk made by Premix-PICT-Diffusion method. <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 460-462, 581-582	1.3	19
35	Influence of dopant particle size on the critical current properties and microstructures of MgB <sub>2</sub> bulks doped with TiC and SiC. <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 463-465, 807-811	1.3	8
34	Flux pinning properties of undoped and C-doped MgB <sub>2</sub> bulks with controlled grain sizes. <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 460-462, 572-573	1.3	8
33	Effects of rare earth doping on the superconducting properties of MgB <sub>2</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 463-465, 225-228	1.3	16
32	Catalytic effect of silver addition on the low temperature phase formation of MgB <sub>2</sub> . <i>Superconductor Science and Technology</i> , <b>2007</b> , 20, 307-311	3.1	35
31	Magneto-Optical Studies on Polycrystalline $\text{MgB}_2$ Bulks Manufactured by Different Processes. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2007</b> , 17, 2746-2749	1.8	2
30	Doping Effects of $\text{TiC}$ and $\text{Mo}_2\text{C}$ on Critical Current Properties of $\text{MgB}_2$ Tapes. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2006</b> , 16, 1411-1414	1.8	12
29	Electrostatic tactile display with thin film slider and its application to tactile telepresentation systems. <i>IEEE Transactions on Visualization and Computer Graphics</i> , <b>2006</b> , 12, 168-77	4	113
28	Grain Size Determinants and Grain-Boundary Pinning in In-situ MgB <sub>2</sub> Bulks. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , <b>2006</b> , 41, 497-504	0.1	2
27	Improved critical current properties of MgB <sub>2</sub> bulks by controlling microstructures. <i>Journal of Physics: Conference Series</i> , <b>2006</b> , 43, 119-122	0.3	15
26	Strong Relationship between Irreversibility Field and Crystallinity Discovered in Undoped and Carbon Substituted MgB <sub>2</sub> Bulks. <i>Journal of Physics: Conference Series</i> , <b>2006</b> , 43, 111-114	0.3	
25	Critical current characteristics in MgB <sub>2</sub> bulks. <i>Physica C: Superconductivity and Its Applications</i> , <b>2006</b> , 445-448, 474-477	1.3	17
24	Reactivity of carbides in synthesis of MgB <sub>2</sub> bulks. <i>Physica C: Superconductivity and Its Applications</i> , <b>2006</b> , 445-448, 801-805	1.3	24
23	Crystallinity and flux pinning properties of MgB <sub>2</sub> bulks. <i>Physica C: Superconductivity and Its Applications</i> , <b>2006</b> , 445-448, 806-810	1.3	22
22	Carbon Substitution Effects on Critical Current Properties of Superconductor MgB <sub>2</sub> . <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , <b>2006</b> , 41, 489-496	0.1	1
21	Thermal Tactile Presentation with On-Site Parameter Identification of Finger <b>2005</b> ,		15



20	Effects of B4C doping on critical current properties of MgB <sub>2</sub> superconductor. <i>Superconductor Science and Technology</i> , <b>2005</b> , 18, 1323-1328	3.1	158
19	High critical current properties of MgB <sub>2</sub> bulks prepared by a diffusion method. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 222502	3.4	56
18	Effects of sintering conditions on critical current properties and microstructures of MgB <sub>2</sub> bulks. <i>Physica C: Superconductivity and Its Applications</i> , <b>2005</b> , 426-431, 1220-1224	1.3	19
17	Flux pinning properties of impurity doped MgB <sub>2</sub> bulks synthesized by diffusion method. <i>Physica C: Superconductivity and Its Applications</i> , <b>2005</b> , 426-431, 1225-1230	1.3	18
16	Tactile telepresence system using PVDF sensors and electrostatic stimulator <b>2005</b> ,		1
15	Universal relationship between crystallinity and irreversibility field of MgB <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2005</b> , 86, 212502	3.4	128
14	Doping effects on critical current properties of MgB <sub>2</sub> /sub 2/ bulks synthesized by modified powder-in-tube method. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2005</b> , 15, 3292-3295	1.8	31
13	Improved critical current properties observed in MgB <sub>2</sub> bulks synthesized by low-temperature solid-state reaction. <i>Superconductor Science and Technology</i> , <b>2005</b> , 18, 116-121	3.1	127
12	Generic positive effects of low level impurity doping on flux pinning properties of HTSC and MgB <sub>2</sub> /sub 2/. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2005</b> , 15, 3778-3781	1.8	8
11	Arrangement planning for multiple self-moving trays in human supporting production cell "attentive workbench" <b>2005</b> ,		4
10	Relationship between Crystallinity and Critical Current Properties of MgB <sub>2</sub> Bulks. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , <b>2005</b> , 40, 466-472	0.1	3
9	Enhanced critical current properties observed in Na <sub>2</sub> CO <sub>3</sub> -doped MgB <sub>2</sub> . <i>Superconductor Science and Technology</i> , <b>2004</b> , 17, 926-930	3.1	31
8	Synthesis of highJ <sub>c</sub> MgB <sub>2</sub> bulks with high reproducibility by a modified powder-in-tube method. <i>Superconductor Science and Technology</i> , <b>2004</b> , 17, 921-925	3.1	68
7	Control of thermal tactile display based on prediction of contact temperature <b>2004</b> ,		60
6	Crystal growth and characterization of MgB <sub>2</sub> : the relation between structural and superconducting properties. <i>Superconductor Science and Technology</i> , <b>2003</b> , 16, 213-220	3.1	32
5	V-Y advancement posterior thigh fasciocutaneous flaps for total anal canal and large perianal defects. <i>Annals of Plastic Surgery</i> , <b>1996</b> , 37, 340-1	1.7	9
4	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1993</b> , 3, 95-103	1.8	12
3	Direct Electrostatic Transportation of Frozen Droplets in Liquid Nitrogen for Single Cryopreserved Cell Processing		1

2	Electrostatic tactile display for presenting surface roughness sensation	17
1	Evaluation of MR-compatibility of Electrostatic Linear Motor	12