

Satoshi Awaji

List of Publications by Year in descending order

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651
papers

8,778
citations

76196

40
h-index

118652

62
g-index

656
all docs

656
docs citations

656
times ranked

4180
citing authors

#	ARTICLE	IF	CITATIONS
1	Substitution for copper in a high-Tc superconductor YBa ₂ Cu ₃ O _{7-δ} . Nature, 1987, 328, 512-514.	13.7	387
2	Significantly enhanced critical current densities in MgB ₂ tapes made by a scaleable nanocarbon addition route. Applied Physics Letters, 2006, 88, 072502.	1.5	177
3	Quantum Hall effect in a bulk antiferromagnet EuMnBi ₂ with magnetically confined two-dimensional Dirac fermions. Science Advances, 2016, 2, e1501117.	4.7	171
4	Geochemistry of a long in-situ section of intrusive slow-spread oceanic lithosphere: Results from IODP Site U1309 (Atlantis Massif, 30°N Mid-Atlantic-Ridge). Earth and Planetary Science Letters, 2009, 279, 110-122.	1.8	144
5	First performance test of a 25 T cryogen-free superconducting magnet. Superconductor Science and Technology, 2017, 30, 065001.	1.8	128
6	Realization of practical level current densities in Sr _{0.6} K _{0.4} Fe ₂ As ₂ tape conductors for high-field applications. Applied Physics Letters, 2014, 104, 202601.	1.5	119
7	Drilling constraints on lithospheric accretion and evolution at Atlantis Massif, Mid-Atlantic Ridge 30°N. Journal of Geophysical Research, 2011, 116, .	3.3	112
8	Development and large volume production of extremely high current density YBa ₂ Cu ₃ O ₇ superconducting wires for fusion. Scientific Reports, 2021, 11, 2084.	1.6	106
9	Magnetic Field-Induced Insulator-Semimetal Transition in a Pyrochlore $\frac{Nd}{O} \frac{2}{7}$ Physical Review Letters, 2015, 115, 056402.	1.8	76
10	High transport current superconductivity in powder-in-tube Ba _{0.6} K _{0.4} Fe ₂ As ₂ tapes at 27 T. Superconductor Science and Technology, 2018, 31, 015017.	1.8	76
11	Large transport critical currents of powder-in-tube Sr _{0.6} K _{0.4} Fe ₂ As ₂ /Ag superconducting wires and tapes. Physica C: Superconductivity and Its Applications, 2010, 470, 183-186.	0.6	72
12	Magnetic Field Induced Sign Reversal of the Anomalous Hall Effect in a Pyrochlore Ferromagnet Nd ₂ Mo ₂ O ₇ : Evidence for a Spin Chirality Mechanism. Physical Review Letters, 2003, 90, 257202.	2.9	71
13	11 T liquid helium-free superconducting magnet. Cryogenics, 1996, 36, 1019-1025.	0.9	64
14	Noncontact measurement of thermal conductivity of liquid silicon in a static magnetic field. Applied Physics Letters, 2007, 90, 094102.	1.5	64
15	High critical current density and low anisotropy in textured Sr _{1-x} K _x Fe ₂ As ₂ tapes for high field applications. Scientific Reports, 2012, 2, 998.	1.6	64
16	Hot pressing to enhance the transport J _c of Sr _{0.6} K _{0.4} Fe ₂ As ₂ superconducting tapes. Scientific Reports, 2014, 4, 6944.	1.6	64
17	Angular dependence of the upper critical field and the critical current density for Y ₁ Ba ₂ Cu ₃ O _{7-δ} films. Journal of Applied Physics, 1991, 69, 1543-1546.	1.1	61
18	X-ray diffraction study of the structural phase transition of Ni ₂ MnGa alloys in high magnetic fields. Solid State Communications, 2000, 113, 671-676.	0.9	61

#	ARTICLE	IF	CITATIONS
19	Containerless Melting of Glass by Magnetic Levitation Method. Japanese Journal of Applied Physics, 2000, 39, L324-L326.	0.8	61
20	Improvements of fabrication processes and enhancement of critical current densities in (Ba,K)Fe ₂ As ₂ HIP wires and tapes. Superconductor Science and Technology, 2018, 31, 055016.	1.8	59
21	New 25 T Cryogen-Free Superconducting Magnet Project at Tohoku University. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.1	58
22	The influence of the geometric characteristics of nanorods on the flux pinning in high-performance BaMO ₃ -doped SmBa ₂ Cu ₃ O _y films (M = Hf, Sn). Superconductor Science and Technology, 2014, 27, 065001.	1.8	57
23	Tuning nanoparticle size for enhanced functionality in perovskite thin films deposited by metal organic deposition. NPC Asia Materials, 2017, 9, e447-e447.	3.8	57
24	15 T Cryocooled Nb ₃ Sn Superconducting Magnet with a 52 mm Room Temperature Bore. Japanese Journal of Applied Physics, 1998, 37, L1148-L1150.	0.8	54
25	Characteristics of REBCO Coated Conductors for 25 T Cryogen-Free Superconducting Magnet. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	53
26	Development of High Field Heat-Treatment Equipment and Relevant Applications. Japanese Journal of Applied Physics, 1997, 36, L673-L675.	0.8	52
27	Critical current properties in HTS tapes. Physica C: Superconductivity and Its Applications, 2003, 392-396, 1053-1062.	0.6	52
28	Superconducting Properties of 100-m Class Sr _{0.6} K _{0.4} Fe ₂ As ₂ Tape and Pancake Coils. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	52
29	Cu-NMR studies of Nd _{2-x} Ce _x CuO _{4-y} . Physica C: Superconductivity and Its Applications, 1989, 160, 8-16.	0.6	48
30	J _c enhancement of YBa ₂ Cu ₃ O ₇ films on polycrystalline silver substrates by metalorganic chemical vapor deposition in high magnetic fields. Applied Physics Letters, 2000, 77, 3633-3635.	1.5	48
31	Enhancement of critical current densities in (Ba,K)Fe ₂ As ₂ wires and tapes using HIP technique. Superconductor Science and Technology, 2016, 29, 115002.	1.8	48
32	The effect of ZrSi ₂ and SiC doping on the microstructure and J _c properties of PIT processed MgB ₂ tapes. Superconductor Science and Technology, 2006, 19, 133-137.	1.8	46
33	Flux-Pinning Properties of BaHfO ₃ -Doped EuBCO-Coated Conductors Fabricated by Hot-Wall PLD. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	46
34	Highly strengthened multifilamentary (Nb,Ti) ₃ Sn wires stabilized with CuNb composite. IEEE Transactions on Magnetics, 1994, 30, 1871-1874.	1.2	45
35	High-performance irreversibility field and flux pinning force density in BaHfO ₃ -doped GdBa ₂ Cu ₃ O _y tape prepared by pulsed laser deposition. Applied Physics Express, 2015, 8, 023101.	1.1	45
36	Improvement in <i>J_c</i> performance below liquid nitrogen temperature for SmBa ₂ Cu ₃ O _y superconducting films with BaHfO ₃ nano-rods controlled by low-temperature growth. APL Materials, 2016, 4, .	2.2	44

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37	Noncontact modulated laser calorimetry in a dc magnetic field for stable and supercooled liquid silicon. <i>Measurement Science and Technology</i> , 2010, 21, 025901.	1.4	42
38	Liquid helium-free superconducting magnets and their applications. <i>Cryogenics</i> , 1994, 34, 639-642.	0.9	41
39	Improvement of mechanical and superconducting properties in CuNb/(Nb,Ti) ₃ Sn wires by applying bending strain at room temperature. <i>Superconductor Science and Technology</i> , 2003, 16, 733-738.	1.8	41
40	Development of modulated laser calorimetry using a solid platinum sphere as a reference. <i>Measurement Science and Technology</i> , 2007, 18, 2059-2066.	1.4	41
41	Grain boundary segregation in a bronze-route Nb ₃ Sn superconducting wire studied by atom probe tomography. <i>Superconductor Science and Technology</i> , 2013, 26, 055008.	1.8	41
42	Strongly enhanced current densities in Sr _{0.6} K _{0.4} Fe ₂ As ₂ + Sn superconducting tapes. <i>Scientific Reports</i> , 2014, 4, 4465.	1.6	40
43	Magnetic levitation experiments in Tohoku University. <i>Physica B: Condensed Matter</i> , 1998, 256-258, 618-620.	1.3	39
44	Effects of drawing and high-pressure sintering on the superconducting properties of (Ba,K)Fe ₂ As ₂ powder-in-tube wires. <i>Superconductor Science and Technology</i> , 2015, 28, 125014.	1.8	38
45	High critical current density in textured Ba-122/Ag tapes fabricated by a scalable rolling process. <i>Scripta Materialia</i> , 2015, 99, 33-36.	2.6	38
46	Nb ₃ Sn multifilamentary wires with CuNb reinforcing stabilizer. <i>IEEE Transactions on Applied Superconductivity</i> , 1993, 3, 1006-1009.	1.1	37
47	Angular dependence of critical current properties in YBCO coated tape under high magnetic field up to 18 T. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 378-381, 1113-1117.	0.6	37
48	Transport Characteristics of CVD-YBCO Coated Conductor under Hoop Stress. <i>IEEE Transactions on Applied Superconductivity</i> , 2008, 18, 1131-1134.	1.1	37
49	BMO-Doped REBCO-Coated Conductors for Uniform In-Field I_{c} by Hot-Wall PLD Process Using IBAD Template. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-4.	1.1	37
50	Effect of high magnetic field on the two-step martensitic-phase transition in Ni ₂ MnGa. <i>Applied Physics Letters</i> , 2000, 76, 37-39.	1.5	36
51	Room and low temperature direct three-dimensional-strain measurements by neutron diffraction on as-reacted and prebent CuNb ₃ Sn wire. <i>Journal of Applied Physics</i> , 2007, 101, 103913.	1.1	36
52	Large magneto-thermopower in MnGe with topological spin texture. <i>Nature Communications</i> , 2018, 9, 408.	5.8	36
53	Magnetic levitation experiments in Tohoku University. <i>Physica B: Condensed Matter</i> , 2001, 294-295, 729-735.	1.3	35
54	Noncontact modulated laser calorimetry of liquid silicon in a static magnetic field. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	35

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55	Anisotropic properties of the anomalous second peak in the magnetization curves and the irreversibility field of YBa ₂ Cu ₃ O _y (6.6 ≤ y ≤ 6.9) single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1995, 251, 255-262.	0.6	34
56	Development of High Strength Pancake Coil With Stress Controlling Structure by REBCO Coated Conductor. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 4601204-4601204.	1.1	34
57	Enhancement of critical current densities by high-pressure sintering in (Sr,K)Fe ₂ As ₂ PIT wires. <i>Superconductor Science and Technology</i> , 2014, 27, 095002.	1.8	34
58	Review on Bi ₂ Sr ₂ CaCu ₂ O whiskers. <i>Superconductor Science and Technology</i> , 2006, 19, R81-R99.	1.8	33
59	Current Transport Properties of 200 A-200 m-Class IBA ₂ YBCO Coated Conductor Over Wide Range of Magnetic Field and Temperature. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 3207-3210.	1.1	32
60	Critical current density of MgB ₂ thin film with pinning centres introduced by deposition in oxygen atmosphere. <i>Superconductor Science and Technology</i> , 2005, 18, 1460-1463.	1.8	31
61	(Nb,Ti)/ ₃ Sn superconducting wire with CuNb reinforcing stabilizer. <i>IEEE Transactions on Applied Superconductivity</i> , 2002, 12, 1067-1070.	1.1	30
62	Performance of a Cryogen-Free 30 T-Class Hybrid Magnet. <i>IEEE Transactions on Applied Superconductivity</i> , 2006, 16, 934-939.	1.1	30
63	Characteristics of high-performance BaHfO ₃ -doped SmBa ₂ Cu ₃ O _y superconducting films fabricated with a seed layer and low-temperature growth. <i>Superconductor Science and Technology</i> , 2015, 28, 065013.	1.8	30
64	Transport and magnetic properties of La _x Sr _{1-x} TiO ₃ . <i>Physica B: Condensed Matter</i> , 1990, 165-166, 1185-1186.	1.3	29
65	The effect of high strength static magnetic fields and ionizing radiation on gene expression and DNA damage in <i>Caenorhabditis elegans</i> . <i>Bioelectromagnetics</i> , 2008, 29, 605-614.	0.9	29
66	Insulating phase of a two-dimensional electron gas in Mg _x Zn _{1-x} O heterostructures below $\frac{1}{2}$. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 013001.	1.1	29
67	ae Beautirulac™ unconventional synthesis and processing technologies of superconductors and some other materials. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 013001.	2.8	29
68	Flux pinning properties of correlated pinning at low temperatures in ErBCO films with inclined columnar defects. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	29
69	Enhanced Critical Current Density of MgB ₂ Superconductor Synthesized in High Magnetic Fields. <i>Japanese Journal of Applied Physics</i> , 2006, 45, L493-L496.	0.8	28
70	Flux Pinning Properties at Low Temperatures in BaHfO_3 -Doped $\text{SmBa}_2\text{Cu}_3\text{O}_y$ Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 8001104-8001104.	1.1	28
71	Approaches in controllable generation of artificial pinning center in REBa ₂ Cu ₃ O _y -coated conductor for high-flux pinning. <i>Superconductor Science and Technology</i> , 2017, 30, 104002.	1.8	28
72	Crystal growth of ammonium chloride in magnetic levitation conditions. <i>Journal of Crystal Growth</i> , 2000, 209, 1013-1017.	0.7	27

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73	Cryogen-Free Superconducting and Hybrid Magnets. Journal of Low Temperature Physics, 2003, 133, 17-30.	0.6	27
74	Cryogen-free hybrid magnet for magnetic levitation. Physica C: Superconductivity and Its Applications, 2003, 386, 485-489.	0.6	27
75	Percolative transition and scaling of transport E - J characteristics in YBCO coated ibad tape. IEEE Transactions on Applied Superconductivity, 2003, 13, 2607-2610.	1.1	27
76	Critical current density and microstructure of iron sheathed multifilamentary Sr _{1-x} KxFe ₂ As ₂ /Ag composite conductors. Journal of Applied Physics, 2015, 118, .	1.1	27
77	Crossover from intrinsic to extrinsic pinning for YBa ₂ Cu ₃ O ₇ films. Cryogenics, 1999, 39, 569-577.	0.9	26
78	Estimation of E _c characteristics in a YBCO coated conductor at low temperature and very high magnetic field. Physica C: Superconductivity and Its Applications, 2003, 392-396, 1078-1082.	0.6	26
79	c-axis correlated pinning behavior near the irreversibility fields. Applied Physics Letters, 2007, 90, 122501.	1.5	26
80	Spin-wave resonance in ferromagnetic coupled Co/Cu multilayers. Journal of Magnetism and Magnetic Materials, 1997, 176, 127-133.	1.0	25
81	Crystal growth and materials processing in the magnetic levitation condition. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 2090-2093.	1.0	25
82	A Cryocooler-Cooled 19 T Superconducting Magnet With 52 mm Room Temperature Bore. IEEE Transactions on Applied Superconductivity, 2004, 14, 393-396.	1.1	25
83	Large irreversibility field in nanoscale C-doped MgB ₂ /Fe tape conductors. Superconductor Science and Technology, 2007, 20, L5-L8.	1.8	25
84	Irreversibility fields and critical current densities in strongly pinned YBa ₂ Cu ₃ O _{7-x} films with BaSnO ₃ nanorods: The influence of segmented BaSnO ₃ nanorods. Journal of Applied Physics, 2014, 116, .	1.1	25
85	Isotropic enhancement in the critical current density of YBCO thin films incorporating nanoscale Y ₂ BaCuO ₅ inclusions. Journal of Applied Physics, 2017, 122, .	1.1	25
86	Control of Thermal Convection in Water by Strong Gradient Magnetic Fields. Japanese Journal of Applied Physics, 2003, 42, L715-L717.	0.8	24
87	Development of High-Strength Nb_3Sn Conductor. IEEE Transactions on Applied Superconductivity, 2004, 14, 1004-1007.	1.1	24
88	18.1%T cryocooled superconducting magnet with a Bi ₂ 223 high- insert. Fusion Engineering and Design, 2006, 81, 2425-2432.	1.0	24
89	Flux pinning properties and microstructures of a SmBa ₂ Cu ₃ O _y film with high number density of BaHfO ₃ nanorods deposited by using low-temperature growth technique. Japanese Journal of Applied Physics, 2014, 53, 090304.	0.8	24
90	Development of Nb-Rod-Method Cu-Nb Reinforced Nb ₃ Sn Rutherford Cables for React-and-Wind Processed Wide-Bore High Magnetic Field Coils. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.1	24

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91	High-performance Ba _{1-x} K _x Fe ₂ As ₂ superconducting tapes with grain texture engineered via a scalable fabrication. <i>Science China Materials</i> , 2021, 64, 2530-2540.	3.5	24
92	Robust REBCO Insert Coil for Upgrade of 25 T Cryogen-Free Superconducting Magnet. <i>IEEE Transactions on Applied Superconductivity</i> , 2021, 31, 1-5.	1.1	24
93	Doping with a special carbohydrate, C ₉ H ₁₁ NO, to improve the <i>c</i> -axis properties of MgB ₂ tapes. <i>Superconductor Science and Technology</i> , 2010, 23, 025024.	1.8	23
94	Enhancement of In-Field Current Transport Properties in GdBCO Coated Conductors by BaHfO_3 Doping. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 8002304-8002304.	1.1	23
95	Mechanical and superconducting properties of Nb ₃ Sn wires with Nb-rod-processed CuNb reinforcement. <i>Superconductor Science and Technology</i> , 2013, 26, 094002.	1.8	23
96	Vortex pinning and dynamics in high performance Sr _{0.6} K _{0.4} Fe ₂ As ₂ superconductor. <i>Journal of Applied Physics</i> , 2016, 119, 143906.	1.1	23
97	Strong flux pinning at 4.2 K in SmBa ₂ Cu ₃ O _y coated conductors with BaHfO ₃ nanorods controlled by low growth temperature. <i>Superconductor Science and Technology</i> , 2017, 30, 084009.	1.8	23
98	Prebending effects in bronze route Nb ₃ Sn wires. <i>Superconductor Science and Technology</i> , 2005, 18, S313-S318.	1.8	22
99	Microstructure and transport critical current in Sr _{0.6} K _{0.4} Fe ₂ As ₂ superconducting tapes prepared by cold pressing. <i>Superconductor Science and Technology</i> , 2013, 26, 075003.	1.8	22
100	Flux pinning landscape up to 25 T in SmBa ₂ Cu ₃ O _y films with BaHfO ₃ nanorods fabricated by low-temperature growth technique. <i>Superconductor Science and Technology</i> , 2017, 30, 104004.	1.8	22
101	Transport current density at temperatures up to 25 K of Cu/Ag composite sheathed 122-type tapes and wires. <i>Superconductor Science and Technology</i> , 2017, 30, 115007.	1.8	22
102	Fabrication and characterization of CaKFe ₄ As ₄ round wires sintered at high pressure. <i>Applied Physics Express</i> , 2018, 11, 123101.	1.1	22
103	New Metalorganic Chemical Vapor Deposition Process in a High Magnetic Field for YBa ₂ Cu ₃ O ₇ . <i>Japanese Journal of Applied Physics</i> , 2000, 39, L726-L729.	0.8	21
104	Large T_c and B_{c2} and I_{c0} Enhancement Effect Due to the Prebending Treatment for Bronze Route Nb ₃ Sn Wires. <i>IEEE Transactions on Applied Superconductivity</i> , 2005, 15, 3564-3567.	1.1	21
105	Improved transport critical current in Ag and Pb co-doped Ba _x K _{1-x} Fe ₂ As ₂ superconducting tapes. <i>Superconductor Science and Technology</i> , 2012, 25, 035020.	1.8	21
106	Prebending Effect for Mechanical and Superconducting Properties of Nb-Rod-Processed Cu-Nb Internal-Reinforced Nb ₃ Sn Wires. <i>IEEE Transactions on Applied Superconductivity</i> , 2014, 24, 1-4.	1.1	21
107	Tailoring the vortex pinning strength of YBCO thin films by systematic incorporation of hybrid artificial pinning centers. <i>Superconductor Science and Technology</i> , 2015, 28, 114004.	1.8	21
108	Pin potential effect on vortex pinning in YBa ₂ Cu ₃ O _{7-δ} films containing nanorods: Pin size effect and mixed pinning. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	21

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109	Fabrication of small superconducting coils using $(\text{Ba,A})\text{Fe}_{2}\text{As}_{2}$ (A: Na, K) round wires with large critical current densities. Superconductor Science and Technology, 2021, 34, 105008.	1.8	21
110	Residual strain estimation in multifilamentary Nb_{3}Sn wires with CuNb reinforcement. IEEE Transactions on Applied Superconductivity, 1995, 5, 1905-1908.	1.1	20
111	Thermal stability of oxide superconductor at various temperatures. IEEE Transactions on Applied Superconductivity, 2002, 12, 1155-1158.	1.1	20
112	Annealing effects on the microstructure, electrical, and magnetic properties of jelly-rolled $\text{Cu}\text{-Nb}$ composite wires. Superconductor Science and Technology, 2005, 18, 35-40.	1.8	20
113	Effect of high magnetic field annealing on the microstructure and magnetic properties of $\text{Co}\text{-Fe}$ layered double hydroxide. Journal of Magnetism and Magnetic Materials, 2010, 322, 3023-3027.	1.0	20
114	Flux pinning properties of TFA-MOD $(\text{Y,Gd})\text{Ba}_{2}\text{Cu}_{3}\text{O}_{x}$ tapes with BaZrO_{3} nanoparticles. Superconductor Science and Technology, 2010, 23, 014006.	1.8	20
115	Enhancement of critical current density in $(\text{Ba,Na})\text{Fe}_{2}\text{As}_{2}$ round wires using high-pressure sintering. Superconductor Science and Technology, 2020, 33, 065001.	1.8	20
116	Glass spheres produced by magnetic levitation method. Journal of Non-Crystalline Solids, 2001, 293-295, 624-629.	1.5	19
117	Influence of a magnetic field on melt-growth process of $\text{YBa}_{2}\text{Cu}_{3}\text{O}_{x}$. Journal of Crystal Growth, 2001, 226, 83-87.	0.7	19
118	Observation of growth-mode change under a magnetic field in $\text{YBa}_{2}\text{Cu}_{3}\text{O}_{7-x}$. Physical Review B, 2002, 65, .	1.1	19
119	Neutron Diffraction Study on Prebending Effects for Bronze Route Nb_{3}Sn Wires Without Reinforcement. IEEE Transactions on Applied Superconductivity, 2006, 16, 1228-1231.	1.1	19
120	Improved critical current densities in MgB_{2} tapes with ZrB_{2} doping. Applied Physics Letters, 2006, 89, 132510.	1.5	19
121	Magnetic Field Design of Dipole Magnet Wound With Coated Conductor Considering Its Current Transport Characteristics. IEEE Transactions on Applied Superconductivity, 2011, 21, 1833-1837.	1.1	19
122	Anisotropy of the Critical Current Density and Intrinsic Pinning Behaviors of $\text{YBa}_{2}\text{Cu}_{3}\text{O}_{x}$ Coated Conductors. Applied Physics Express, 2011, 4, 013101.	1.1	19
123	New Fabrication Process of $\text{Cu}\text{-Nb}$ Composite for Internal Reinforcement of Nb_{3}Sn Wires. Journal of Superconductivity and Novel Magnetism, 2013, 26, 2099-2101.	0.8	19
124	Magnetostriction enhancement by high magnetic field annealing in cast $\text{Fe}_{81}\text{Ga}_{19}$ alloy. Journal of Magnetism and Magnetic Materials, 2017, 442, 128-135.	1.0	19
125	Development of Long-Length BMO-Doped REBCO Coated Conductors by Hot-Wall PLD Process. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4.	1.1	19
126	Surface morphology and growth mechanism of $\text{YBa}_{2}\text{Cu}_{3}\text{O}_{7}$ films by chemical vapor deposition in a magnetic field. Journal of Crystal Growth, 2001, 233, 483-489.	0.7	18

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127	Enhancement of Critical Current Densities by the Prebending Strain at Room Temperature for Nb ₃ Sn Wires. Japanese Journal of Applied Physics, 2003, 42, L1142-L1144.	0.8	18
128	Current sharing effect on the current instability and allowable temperature rise of composite high-TC superconductors. Physica C: Superconductivity and Its Applications, 2004, 416, 126-136.	0.6	18
129	Superconducting properties of ErBCO films with BaMO ₃ nanorods (M=Zr and Sn) by pulsed laser deposition. Physica C: Superconductivity and Its Applications, 2008, 468, 1522-1526.	0.6	18
130	and	1.8	18
131	Upgrading Design to a 25 T Cryogen-Free Superconducting Magnet Based on Low Temperature and High Magnetic Field Properties of the Practical CVD Processed Coated Conductors. IEEE Transactions on Applied Superconductivity, 2010, 20, 592-595.	1.1	18
132	Reversible Strain Response of Critical Current in Differently Processed GdBCO Coated Conductor Tapes Under Magnetic Fields. IEEE Transactions on Applied Superconductivity, 2013, 23, 8400404-8400404.	1.1	18
133	Design of a REBCO Insert Coil for a Cryogen-Free 25-T Superconducting Magnet. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.1	18
134	AC Losses of an HTS Insert in a 25-T Cryogen-Free Superconducting Magnet. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.1	18
135	Transport properties of multifilament MgB ₂ long wires and coils prepared by an internal Mg diffusion process. Superconductor Science and Technology, 2017, 30, 064003.	1.8	18
136	A record-high trapped field of 5.6 T in the stacking of MgB ₂ /TiB ₂ composite bulks prepared by an in-situ hot isostatic pressing method. Superconductor Science and Technology, 2020, 33, 125004.	1.8	18
137	Noncontact Modulated Laser Calorimetry for Liquid Austenitic Stainless Steel in dc Magnetic Field. ISIJ International, 2009, 49, 1436-1442.	0.6	18
138	Enhancement of Upper Critical Field and Critical Temperature by Prebending Process for Practical Nb ₃ Sn Wires. Japanese Journal of Applied Physics, 2004, 43, L709-L711.	0.8	17
139	Bose glass state in bulk(Nd,Eu,Gd)Ba ₂ Cu ₃ O _x with a high irreversibility field. Physical Review B, 2004, 69, .	1.1	17
140	Magnetic orientation of paraffin in a magnetic levitation furnace. Physica B: Condensed Matter, 2004, 346-347, 277-281.	1.3	17
141	Electron backscatter diffraction study of Nb ₃ Sn superconducting multifilamentary wire. Scripta Materialia, 2010, 62, 59-62.	2.6	17
142	Effect of static magnetic field on thermal conductivity measurement of a molten Si droplet by an EML technique: Comparison between numerical and experimental results. International Journal of Heat and Mass Transfer, 2010, 53, 4228-4232.	2.5	17
143	Relation Between the Crystal Axis and the Strain Dependence of Critical Current Under Tensile Strain for GdBCO Coated Conductors. IEEE Transactions on Applied Superconductivity, 2013, 23, 8400304-8400304.	1.1	17
144	Strain-controlled critical temperature in REBa ₂ Cu ₃ O _y -coated conductors. Scientific Reports, 2015, 5, 11156.	1.6	17

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145	Strengthening Effect of "Yoroi-Coil Structure" Against Electromagnetic Force. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	17
146	Delocalization of vortex in SmBa ₂ Cu ₃ O _{7-x} superconducting films with BaHfO ₃ nano-rods. Journal of Applied Physics, 2016, 120, .	1.1	17
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