Michael D Sumption

List of Publications by Year
in descending order

320	5,542	117625	118850
papers	citations	34 h-index	62 g-index

324	324	324	2482
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Addition of nanoparticle dispersions to enhance flux pinning of the YBa2Cu3O7-x superconductor. Nature, 2004, 430, 867-870.	27.8	716
2	High-transport critical current density above 30 K in pure Fe-clad MgB2 tape. Physica C: Superconductivity and Its Applications, 2001, 361, 84-90.	1.2	176
3	Review of high power density superconducting generators: Present state and prospects for incorporating YBCO windings. Cryogenics, 2005, 45, 670-686.	1.7	165
4	Prospects for improving the intrinsic and extrinsic properties of magnesium diboride superconducting strands. Superconductor Science and Technology, 2008, 21, 103001.	3.5	158
5	Development of magnesium diboride (MgB2) wires and magnets using in situ strand fabrication method. Physica C: Superconductivity and Its Applications, 2007, 456, 203-208.	1.2	130
6	Overview of MgB2Superconductor Applications. International Journal of Applied Ceramic Technology, 2007, 4, 250-259.	2.1	127
7	Large upper critical field and irreversibility field in MgB2 wires with SiC additions. Applied Physics Letters, 2005, 86, 092507.	3.3	125
8	High transport critical current density and largeHc2andHirrin nanoscale SiC doped MgB2wires sintered at low temperature. Superconductor Science and Technology, 2005, 18, 658-666.	3.5	97
9	Hysteretic loss reduction in striated YBCO. Physica C: Superconductivity and Its Applications, 2002, 382, 52-56.	1.2	92
10	A Round TableÂDiscussion on$rm MgB_2$Toward a Wide Market or a Niche Production?â€”A Summary. IEEE Transactions on Applied Superconductivity, 2006, 16, 1457-1464.	1.7	88
11	AC loss in striped (filamentary) YBCO coated conductors leading to designs for high frequencies and field-sweep amplitudes. Superconductor Science and Technology, 2005, 18, 122-134.	3.5	81
12	Island growth of Y₂BaCuO₅ nanoparticles in (211<sub>â^¼1.5) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 312 Td YBa₂Cu₃O_{7â^'Î´} films. Journal of Materials Research, 2003, 18, 2618-2623.	2.6	71
13	The critical current density of advanced internal-Mg-diffusion-processed MgB₂wires. Superconductor Science and Technology, 2012, 25, 115023.	3.5	71
14	Fully ordered Sr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>CrReO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>6</mml:mn></mml:msub></mml:math>epitaxial films: A high-temperature ferrimagnetic semiconductor. Physical Review B, 2012, 85, .	3.2	70
15	Flux jumping and a bulk-to-granular transition in the magnetization of a compacted and sintered MgB2 superconductor. Physica C: Superconductivity and Its Applications, 2001, 361, 79-83.	1.2	67
16	Enhancement and angular dependence of transport critical current density in pulsed laser deposited YBa2Cu3O7â^'x+BaSnO3 films in applied magnetic fields. Journal of Applied Physics, 2007, 102, .	2.5	67
17	Magnesium diboride superconducting RF resonant cavities for high energy particle acceleration. Superconductor Science and Technology, 2004, 17, S595-S601.	3.5	56
18	Internally Oxidized Nb₃Sn Strands with Fine Grain Size and High Critical Current Density. Advanced Materials, 2015, 27, 1346-1350.	21.0	56

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19	Compact, lightweight, superconducting power generators. IEEE Transactions on Magnetics, 2005, 41, 268-273.	2.1	55
20	Irreversibility field and flux pinning in MgB2with and without SiC additions. Superconductor Science and Technology, 2004, 17, 1180-1184.	3.5	54
21	Influence of Mg/B ratio and SiC doping on microstructure and high field transport Jc in MgB2 strands. Physica C: Superconductivity and Its Applications, 2007, 456, 180-187.	1.2	52
22	Refinement of Nb₃Sn grain size by the generation of ZrO₂ precipitates in Nb₃Sn wires. Applied Physics Letters, 2014, 104, 082602.	3.3	52
23	Transport properties of multifilamentary,in situroute, Cu-stabilized MgB2strands: one metre segments and theJc(B,T) dependence of short samples. Superconductor Science and Technology, 2006, 19, 155-160.	3.5	51
24	Critical current densities andn-values of MgB₂strands over a wide range of temperatures and fields. Superconductor Science and Technology, 2012, 25, 025001.	3.5	50
25	Enhanced critical fields and superconducting properties of pre-doped B powder-type MgB₂strands. Superconductor Science and Technology, 2011, 24, 012001.	3.5	49
26	Multifilamentary,in situroute, Cu-stabilized MgB2strands. Superconductor Science and Technology, 2005, 18, 730-734.	3.5	47
27	Drawing induced texture and the evolution of superconductive properties with heat treatment time in powder-in-tubein situprocessed MgB₂strands. Superconductor Science and Technology, 2012, 25, 065002.	3.5	47
28	The effect of chemical pressure on the structure and properties of A2CrOsO6 (A=Sr, Ca) ferrimagnetic double perovskite. Journal of Solid State Chemistry, 2016, 238, 46-52.	2.9	44
29	Continuous- and batch-processed MgB2/Fe strandsâ€“â€“transport and magnetic properties. Physica C: Superconductivity and Its Applications, 2003, 386, 555-559.	1.2	40
30	Magnetization losses in superconducting YBCO conductor-on-round-core (CORC) cables. Superconductor Science and Technology, 2014, 27, 125008.	3.5	39
31	Core-suppressed AC loss and strand-moderated contact resistance in a Nb3Sn Rutherford cable. Cryogenics, 1999, 39, 1-12.	1.7	36
32	Increases in the irreversibility field and the upper critical field of bulk MgB2 by ZrB2 addition. Applied Physics Letters, 2005, 87, 042505.	3.3	35
33	Thermally assisted flux flow and individual vortex pinning in Bi2Sr2Ca2Cu3O10 single crystals grown by the traveling solvent floating zone technique. Journal of Applied Physics, 2005, 97, 10B114.	2.5	35
34	Significant enhancement ofH_{c2}andH_{irr}in MgB₂+C₄H₆O₅bulks at a low sintering temperature of 600â€‰Â°C. Superconductor Science and Technology, 2007, 20, L51-L54.	3.5	35
35	Solenoidal coils made from monofilamentary and multifilamentary MgB2strands. Superconductor Science and Technology, 2005, 18, 961-965.	3.5	33
36	Effects of carbon concentration and filament number on advanced internal Mg infiltration-processed MgB2strands. Superconductor Science and Technology, 2013, 26, 095007.	3.5	33

#	Article	IF	Citations
37	Enhanced higher temperature (20â€“30â€‰K) transport properties and irreversibility field in nano-Dy2O3 doped advanced internal Mg infiltration processed MgB2 composites. Applied Physics Letters, 2014, 105, .	3.3	33
38	Doping effect and flux pinning mechanism of nano-SiC additions in MgB₂strands. Superconductor Science and Technology, 2011, 24, 065015.	3.5	30
39	The influence of filament size and atmosphere on the microstructure and J/sub c/ of round multifilament Bi/sub 2/Sr/sub 2/Ca/sub 1/Cu/sub 2/O/sub x/ wires. IEEE Transactions on Applied Superconductivity, 1995, 5, 1162-1166.	1.7	28
40	Analysis of magnetization, AC loss, and deff for various internal-Sn based Nb3Sn multifilamentary strands with and without subelement splitting. Cryogenics, 2004, 44, 711-725.	1.7	28
41	Carbon doping of MgB2 by toluene and malic-acid-in-toluene. Physica C: Superconductivity and Its Applications, 2011, 471, 108-111.	1.2	28
42	Kinetic analysis of MgB2 layer formation in advanced internal magnesium infiltration (AIMI) processed MgB2 wires. Acta Materialia, 2015, 96, 66-71.	7.9	28
43	Influence of heat-treatment schedules on the transport current densities of long and short segments of superconducting MgB2 wire. Physica C: Superconductivity and Its Applications, 2004, 407, 153-159.	1.2	27
44	Transport AC losses in YBCO coated conductors. Superconductor Science and Technology, 2007, 20, S299-S304.	3.5	27
45	Bi:2212/Ag-based Rutherford cables: production, processing and properties. Superconductor Science and Technology, 1999, 12, 87-96.	3.5	26
46	Anisotropic connectivity and its influence on critical current densities, irreversibility fields, and flux creep inin situprocessed MgB₂strands. Superconductor Science and Technology, 2010, 23, 045018.	3.5	26
47	Effects of Normal Load, Sliding Speed, and Surface Roughness on Tribological Properties of Niobium under Dry and Wet Conditions. Tribology Transactions, 2014, 57, 944-954.	2.0	25
48	Effect of Various Additions on Upper Critical Field and Irreversibility Field of In-Situ<tex>$rm MgB_2$</tex>Superconducting Bulk Material. IEEE Transactions on Applied Superconductivity, 2005, 15, 3204-3206.	1.7	24
49	On the Mechanism of Niobium Electropolishing. Journal of the Electrochemical Society, 2012, 159, C485-C491.	2.9	24
50	High critical current density in internally-oxidized Nb3Sn superconductors and its origin. Scripta Materialia, 2020, 186, 317-320.	5.2	24
51	Frequency dependence of magnetic ac loss in a Roebel cable made of YBCO on a Niâ€“W substrate. Superconductor Science and Technology, 2010, 23, 085009.	3.5	23
52	Influence of twist pitch and sample length on proximity effect coupling in multifilamentary composites described in terms of a field independent, two current region model. Cryogenics, 1994, 34, 491-505.	1.7	22
53	Contact resistance and cable loss measurements of coated strands and cables wound from them. IEEE Transactions on Applied Superconductivity, 1995, 5, 692-696.	1.7	22
54	Reduction and elimination of external-field AC loss in MgB2/Fe wire by in situ magnetic shielding. Physica C: Superconductivity and Its Applications, 2002, 378-381, 894-898.	1.2	22

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55	Transport and magnetic Jc of MgB2 strands and small helical coils. Applied Physics Letters, 2005, 86, 102501.	3.3	22
56	High Critical Current Density Multifilamentary ${m MgB}_{2}$ Strands. IEEE Transactions on Applied Superconductivity, 2007, 17, 2838-2841.	1.7	22
57	Electrical resistivity, Debye temperature, and connectivity in heavily doped bulk MgB2 superconductors. Journal of Applied Physics, 2009, 105, .	2.5	22
58	Experiment Setup for Calorimetric Measurements of Losses in HTS Coils Due to AC Current and External Magnetic Fields. IEEE Transactions on Applied Superconductivity, 2013, 23, 4701505-4701505.	1.7	22
59	Low AC Loss Structures in YBCO Coated Conductors With Filamentary Current Sharing. IEEE Transactions on Applied Superconductivity, 2005, 15, 2827-2830.	1.7	21
60	Calculation of the magnetization of anisotropic superconductors with cylindrical geometry in transverse fields. Applied Superconductivity, 1994, 2, 41-46.	0.5	20
61	Influence of strand surface condition on interstrand contact resistance and coupling loss in NbTi-wound Rutherford cables. Cryogenics, 1999, 39, 197-208.	1.7	20
62	Homogeneous carbon doping of magnesium diboride by high-temperature, high-pressure synthesis. Applied Physics Letters, 2014, 104, .	3.3	20
63	Catalyst-free ZnO nanowires on silicon by pulsed laser deposition with tunable density and aspect ratio. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 62, 95-103.	2.7	20
64	Thermal diffusion and quench propagation in YBCO pancake coils wound with ZnO and Mylar insulations. Superconductor Science and Technology, 2010, 23, 075004.	3.5	20
65	Eddy-current effects in twisted and wound SSC strands. IEEE Transactions on Magnetics, 1991, 27, 1791-1795.	2.1	19
66	Suppression and control of coupling currents in stabrite-coated Rutherford cable with cores of various materials and thicknesses. IEEE Transactions on Applied Superconductivity, 1997, 7, 962-966.	1.7	19
67	The effect of doping level and sintering temperature on Jc(H) performance in nano-SiC doped and pure MgB2 wires. Journal of Applied Physics, 2006, 99, 08M510.	2.5	19
68	<tex>$rm MgB_2/rm Cu$</tex>Racetrack Coil Winding, Insulating, and Testing. IEEE Transactions on Applied Superconductivity, 2005, 15, 1457-1460.	1.7	18
69	Multifilamentary MgB2-based solenoidal and racetrack coils. Physica C: Superconductivity and Its Applications, 2007, 458, 12-20.	1.2	18
70	PLASMA SYNTHESIZED BORON NANO-SIZED POWDER FOR MgB[sub 2] WIRES. AIP Conference Proceedings, 2010, , .	0.4	18
71	Stability and normal zone propagation in YBCO CORC cables. Superconductor Science and Technology, 2016, 29, 044006.	3.5	18
72	Optimization studies for processing Nb/sub 3/Al by a rapid ohmic-heating and quenching method. IEEE Transactions on Applied Superconductivity, 2001, 11, 3980-3983.	1.7	17

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73	Modeling of Transport AC Losses in Superconducting Arrays Carrying Anti-Parallel Currents. IEEE Transactions on Applied Superconductivity, 2007, 17, 1803-1806.	1.7	17
74	Wind and React and React and Wind ${m MgB}_{2}$ Solenoid, Racetrack and Pancake Coils. IEEE Transactions on Applied Superconductivity, 2007, 17, 2286-2290.	1.7	17
75	A MgB₂12.5 kVA superconductor transformer. Superconductor Science and Technology, 2009, 22, 065002.	3.5	17
76	Stability, Inter-Strand Contact Resistance, and AC Losses in YBCO Roebel Cables. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	17
77	A model for the compositions of non-stoichiometric intermediate phases formed by diffusion reactions and its application to Nb3Sn superconductors. Scientific Reports, 2016, 6, 19096.	3.3	17
78	Influence of Metal Diboride and Dy2O3 Additions on Microstructure and Properties of MgB2 Fabricated at High Temperatures and under Pressure. Scientific Reports, 2016, 6, 29306.	3.3	17
79	A model for bridging and coupling in superconductors. Physica C: Superconductivity and Its Applications, 1996, 261, 245-258.	1.2	16
80	Short-sample quenching of Nb/sub 3/Al precursor strand in support of reel-to-reel process development. IEEE Transactions on Applied Superconductivity, 1999, 9, 1433-1436.	1.7	16
81	Low loss striated YBa2Cu3O7â^'d coated conductor with filamentary current sharing. Journal of Applied Physics, 2004, 96, 6550-6556.	2.5	16
82	Excess Mg addition MgB2/Fe wires with enhanced critical current density. Journal of Applied Physics, 2008, 103, 083911.	2.5	16
83	AC Loss of Superconducting Materials in Motors and Generators for Very High Density Motors and Generators for Hybrid-Electric Aircraft. , 2018, , .		16
84	Enhanced higher temperature irreversibility field and critical current density in MgB₂ wires with Dy₂O₃ additions. Superconductor Science and Technology, 2021, 34, 025010.	3.5	16
85	Fabrication and critical current density in 16-filament stainless steel/Fe/MgB2 square wire. Solid State Communications, 2002, 124, 59-62.	1.9	15
86	AC Losses in ${m MgB}_{2}$ Multifilamentary Strands With Magnetic and Non-Magnetic Sheath Materials. IEEE Transactions on Applied Superconductivity, 2009, 19, 3106-3109.	1.7	15
87	Transverse and longitudinal resistivities in NbTi multifilamentary strands with Cu and CuMn matrices. IEEE Transactions on Applied Superconductivity, 1993, 3, 859-862.	1.7	14
88	AC loss in cored, stabrite-coated, superconducting cables in response to external compaction and variation of core thickness and width. Cryogenics, 2001, 41, 733-744.	1.7	14
89	Strain and Magnetization Properties of High Subelement Count Tube-Type ${m Nb}_{3}{m Sn}$ Strands. IEEE Transactions on Applied Superconductivity, 2011, 21, 2559-2562.	1.7	14
90	Density effect on critical current density and flux pinning properties of polycrystalline SmFeAsO_{1 â^'x}F_xsuperconductor. Superconductor Science and Technology, 2011, 24, 125012.	3.5	14

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91	Effects of cold high pressure densification on Cu sheathed Ba0.6K0.4Fe2As2 superconducting wire. Physica C: Superconductivity and Its Applications, 2012, 483, 13-16.	1.2	14
92	Validation of Finite-Element Models of Persistent-Current Effects in Nb₃Sn Accelerator Magnets. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-6.	1.7	14
93	Magnetization as a critical defining parameter for strand in precision dipole applications implications for field error and F-J stability. IEEE Transactions on Applied Superconductivity, 2001, 11, 2567-2570.	1.7	13
94	Influence of transformation heat treatment on microstructure and defects in RHQT-processed Nb/sub 3/Al. IEEE Transactions on Applied Superconductivity, 2003, 13, 3458-3461.	1.7	13
95	Magnetic, Calorimetric, and Transport Studies of Coupling and Interstrand Contact Resistance in Nb3Sn Rutherford Cables with Bimetallic Cores of Stainless Steel Bonded to Copper. AIP Conference Proceedings, 2004, , .	0.4	13
96	Modeling Current-Field Instabilities in High Performance ${m Nb}_{3}{m Sn}$ Strands in Moderate Field. IEEE Transactions on Applied Superconductivity, 2007, 17, 2714-2717.	1.7	13
97	ANGULAR MEASUREMENTS OF HTS CRITICAL CURRENT FOR HIGH FIELD SOLENOIDS. AIP Conference Proceedings, 2008, , .	0.4	13
98	HYDROGEN EMBRITTLEMENT EVALUATION IN TENSILE PROPERTIES OF STAINLESS STEELS AT CRYOGENIC TEMPERATURES. AIP Conference Proceedings, 2008, , .	0.4	13
99	Comparison of Critical Current Density in ${m MgB}_{2}$ With Different Boron Sources and Nano-Particle Dopant Additions. IEEE Transactions on Applied Superconductivity, 2009, 19, 2756-2759.	1.7	13
100	Critical current density and stability of Tube Type Nb3Sn conductors. Cryogenics, 2012, 52, 91-99.	1.7	13
101	Experimental determination of the peritectic transition temperature of MgB2 in the Mgâ€“B phase diagram. Thermochimica Acta, 2014, 576, 27-35.	2.7	13
102	Demonstration of Conduction Cooled React and Wind MgB2 Coil Segment for MRI Applications. IEEE Transactions on Applied Superconductivity, 2015, 26, 1-1.	1.7	13
103	Architecture and Transport Properties of Multifilamentary MgB2 Strands for MRI and Low AC Loss Applications. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	13
104	Phase stability at high temperatures in the Nb-Al system. IEEE Transactions on Applied Superconductivity, 2003, 13, 3462-3465.	1.7	12
105	Influence of Pre-Heat-Treatment Condition on Interstrand Contact Resistance in Nb3Sn Rutherford Cables by Calorimetric AC-Loss Measurement. AIP Conference Proceedings, 2006, , .	0.4	12
106	Influence of a Stainless Steel Core on Coupling Loss, Interstrand Contact Resistance, and Magnetization of an $hbox{Nb}_{3}hbox{Sn}$ Rutherford Cable. IEEE Transactions on Applied Superconductivity, 2008, 18, 1301-1304.	1.7	12
107	Instrumentation, cooling, and initial testing of a large, conduction-cooled, react-and-wind MgB₂ coil segment for MRI applications. Superconductor Science and Technology, 2018, 31, 085013.	3.5	12
108	AC Loss of Superconducting Materials- refined loss estimates for very high density motors and generators for hybrid-electric aircraft: MgB2 wires, Coated conductor tapes and wires. , 2019, , .		12

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109	Titanium Diffusion and Phase Formation in Tube-Type Rod-In-Tube and Internal-Tin Nb3Sn Strands. AIP Conference Proceedings, 2006, , .	0.4	11
110	Thermal Analysis of ${m MgB}_{2}$ Formation. IEEE Transactions on Applied Superconductivity, 2007, 17, 2754-2756.	1.7	11
111	Interstrand Contact Resistance in ${m Nb}_{3}{m Sn}$ Cables Under LARP-Type Preparation Conditions. IEEE Transactions on Applied Superconductivity, 2007, 17, 2494-2497.	1.7	11
112	Magnetization creep and decay in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Y</mml:mi><mml:msub><mml:mi mathvariant="normal">Ba</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Cu</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>7</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></ films with artificial nanostructure p. Physical Review B, 2008, 77, .	3.2	11
113	Temperature and Magnetic Field Dependence of Critical Current Density of YBCO With Varying Flux Pinning Additions. IEEE Transactions on Applied Superconductivity, 2009, 19, 3270-3274.	1.7	11
114	Interstrand Contact Resistance and Magnetization of ${hbox {Nb}}_{3}{hbox {Sn}}$ Rutherford Cables With Cores of Different Materials and Widths. IEEE Transactions on Applied Superconductivity, 2012, 22, 6000904-6000904.	1.7	11
115	Critical current densities and microstructures in rod-in-tube and tube type Nb₃Sn strandsâ€”present status and prospects for improvement. Superconductor Science and Technology, 2013, 26, 075015.	3.5	11
116	Critical current densities of doped MgB2 strands in low and high applied field ranges: The Jc(B) crossover effect. Physica C: Superconductivity and Its Applications, 2013, 490, 20-25.	1.2	11
117	Critical Current Density and Current Transfer Length of Multifilamentary $hbox{MgB}_{2}$ Strands of Various Design. IEEE Transactions on Applied Superconductivity, 2013, 23, 6200204-6200204.	1.7	11
118	Influence of twisting and bending on the J and n-value of multifilamentary MgB2 strands. Physica C: Superconductivity and Its Applications, 2015, 519, 118-123.	1.2	11
119	Magnetization and Flux Penetration of YBCO CORC Cable Segments at the Injection Fields of Accelerator Magnets. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	11
120	Low field flux jumping in high performance multifilamentary Nb/sub 3/Al and Nb/sub 3/Sn composite strands. IEEE Transactions on Applied Superconductivity, 1999, 9, 1455-1458.	1.7	10
121	Ti and Sn Diffusion and Its Influence on Phase Formation in Internal-Tin<tex>$rm Nb_3rm Sn$</tex>Superconductor Strands. IEEE Transactions on Applied Superconductivity, 2005, 15, 3399-3402.	1.7	10
122	Magnetic Measurements of Interstrand Contact Resistance in<tex>$rm Nb_3rm Sn$</tex>Cables in Response to Variation of Pre-Heat-Treatment Condition. IEEE Transactions on Applied Superconductivity, 2006, 16, 1200-1203.	1.7	10
123	Superconducting Properties of SiC Doped <formula formulatype="inline"><tex>${m MgB}_{2}$</tex></formula> Formed Below and Above Mg's Melting Point. IEEE Transactions on Applied Superconductivity, 2007, 17, 2750-2753.	1.7	10
124	Composition Profiles and Upper Critical Field Measurement of Internal-Sn and Tube-Type Conductors. IEEE Transactions on Applied Superconductivity, 2007, 17, 2668-2671.	1.7	10
125	Ac loss in YBCO coated conductors exposed to external magnetic fields at 50â€“200Hz. Physica C: Superconductivity and Its Applications, 2007, 466, 29-36.	1.2	10
126	Influence of heat treatment temperature and Ti doping on low-field flux jumping and stability in (Nb-Ta)₃Sn strands. Superconductor Science and Technology, 2014, 27, 095009.	3.5	10

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127	Evolution of the superconducting properties from binary to ternary APC-Nb₃Sn wires. Superconductor Science and Technology, 2021, 34, 035028.	3.5	10
128	Influence of Cable and Twist Pitch Interactions on Eddy Currents In Multifilamentary Strands Calculated Using an Anisotropic Continuum Model. , 1994, , 579-587.		10
129	AC Loss and Contact Resistance in Nb3Sn Rutherford Cables With and Without a Stainless Steel Core. , 1998, , 1077-1084.		10
130	High performance, advanced-internal-magnesium-infiltration (AIMI) MgB₂ wires processed using a vapor-solid reaction route. Superconductor Science and Technology, 2020, 33, 094004.	3.5	10
131	Accelerators, Gantries, Magnets and Imaging Systems for Particle Beam Therapy: Recent Status and Prospects for Improvement. Frontiers in Oncology, 2021, 11, 737837.	2.8	10
132	Enhanced static magnetization and creep in fine-filamentary and SSC-prototype strands via helical cabling geometry enhanced proximity effects. IEEE Transactions on Applied Superconductivity, 1993, 3, 751-756.	1.7	9
133	Influence of filamentary and strand aspect ratios on AC loss in short, untwisted samples of HTSC and LTSC superconducting multifilamentary composites. Physica C: Superconductivity and Its Applications, 2000, 337, 187-194.	1.2	9
134	The Introduction of Titanium into Internal-Tin<tex>$rm Nb_3rm Sn$</tex>by a Variety of Procedures. IEEE Transactions on Applied Superconductivity, 2005, 15, 3478-3481.	1.7	9
135	Neutron Irradiation of SiC Doped and Magnesium Rich MgB$_{2}$ Wires. IEEE Transactions on Applied Superconductivity, 2007, 17, 2814-2817.	1.7	9
136	Smoothening of niobium by electropolishing. Journal of Applied Electrochemistry, 2013, 43, 829-838.	2.9	9
137	Intrawire resistance, AC loss and strain dependence of critical current in MgB₂wires with and without cold high-pressure densification. Superconductor Science and Technology, 2014, 27, 075002.	3.5	9
138	Magnetic structure of the quasi-one-dimensionalLa3OsO7as determined by neutron powder diffraction. Physical Review B, 2015, 92, .	3.2	9
139	Reduced Magnetization and Loss in Ag–Mg Sheathed Bi2212 Wires: Systematics With Sample Twist Pitch and Length. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	9
140	The Roles of Grain Boundary Refinement and Nano-Precipitates in Flux Pinning of APC Nb₃Sn. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	9
141	Magnetic Studies of Proximity-Effect Coupling in a Very Closely Spaced Fine-Filament NbTi/CuMn Composite Superconductor. , 1990, , 231-238.		9
142	Second VAMAS a.c. loss measurement intercomparison: magnetization measurement of low-frequency (hysteretic) a.c. loss in NbTi multifilamentary strands. Cryogenics, 1997, 37, 49-60.	1.7	8
143	AC loss properties of some Bi:2212/Ag Rutherford cables and a comparison with those of cables wound with NbTi and Nb3Sn. Cryogenics, 1998, 38, 1225-1232.	1.7	8
144	Process development and microstructures of Nb/sub 3/Al precursor strand for reel-to-reel production. IEEE Transactions on Applied Superconductivity, 1999, 9, 2692-2695.	1.7	8

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145	Extraction of matrix resistivity from short samples of superconducting multifilamentary composite tapes: influence of strand twist and internal structure. Physica C: Superconductivity and Its Applications, 2000, 335, 164-169.	1.2	8
146	Real and apparent loss suppression in MgB2 superconducting composites. Physica C: Superconductivity and Its Applications, 2002, 382, 98-103.	1.2	8
147	Fabrication and properties of PIT Nb-Al and Nb-Sn based superconductors. IEEE Transactions on Applied Superconductivity, 2003, 13, 3486-3489.	1.7	8
148	Improvement of critical current density and thermally assisted individual vortex depinning in pulsed-laser-deposited YBa2Cu3O7âˆ'Î´ thin films on SrTiO3 (100) substrate with surface modification by Ag nanodots. Journal of Applied Physics, 2005, 97, 10B107.	2.5	8
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