

Michael D Sumption

List of Publications by Year in descending order

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324
docs citations

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2656
citing authors

#	ARTICLE	IF	CITATIONS
1	AC losses of Roebel and CORC [®] cables at higher AC magnetic fields and ramp rates. Superconductor Science and Technology, 2022, 35, 025006.	1.8	6
2	Magnetic, Mechanical and Thermal Modeling of Superconducting, Whole-Body, Actively Shielded, 3 T MRI Magnets Wound Using MgB ₂ Strands for Liquid Cryogen Free Operation. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-4.	1.1	2
3	Electrical Contact Resistance in REBCO Stacks and Cables With Modified Surfaces. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-6.	1.1	4
4	Flux Creep in a Bi-2212 Rutherford Cable for Particle Accelerator Applications. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	2
5	Dipole Magnets Wound Using YBCO Cables-FEM Stability Issues Modeling. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	1
6	Stability and Current Sharing in YBCO Cables – Impact of Broken Elements – FEM Modeling. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	4
7	FEM Modeling of Superconducting Whole Body, Actively Shielded 7 T MRI Magnets Wound Using Nb ₃ Sn Strands. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	0
8	Methods of Estimating AC Losses in Superconducting MgB ₂ Armature Windings With Spatial and Time Harmonics. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-7.	1.1	3
9	Low Loss Bi:2212 Superconductors for Electric Aircraft. , 2022, , .		1
10	Evolution of the superconducting properties from binary to ternary APC-Nb ₃ Sn wires. Superconductor Science and Technology, 2021, 34, 035028.	1.8	10
11	Metal composite T-junction terminals for MW-class aerospace electric power distribution. Journal of Physics: Conference Series, 2021, 1975, 012036.	0.3	1
12	The Roles of Grain Boundary Refinement and Nano-Precipitates in Flux Pinning of APC Nb ₃ Sn. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	9
13	YBCO Coated Conductor Interlayer Electrical Contact Resistance Measured From 77 K to 4 K Under Applied Pressures up to 9.4 MPa. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	7
14	The Magnetization of Bi:2212 Rutherford Cables for Particle Accelerator Applications. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	2
15	Enhanced higher temperature irreversibility field and critical current density in MgB ₂ wires with Dy ₂ O ₃ additions. Superconductor Science and Technology, 2021, 34, 025010.	1.8	16
16	Accelerators, Gantries, Magnets and Imaging Systems for Particle Beam Therapy: Recent Status and Prospects for Improvement. Frontiers in Oncology, 2021, 11, 737837.	1.3	10
17	Enhancement of B _{c1} and B _{c2} in bulk MgB ₂ superconductors with SnO ₂ Additions. Physica C: Superconductivity and Its Applications, 2020, 578, 1353749.	0.6	5
18	The Role of CHPD and AIMI processing on enhancing J _c and transverse connectivity of in-situ MgB ₂ strand. IOP Conference Series: Materials Science and Engineering, 2020, 756, 012018.	0.3	2

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19	Increased flux pinning force and critical current density in MgB ₂ by nano-La ₂ O ₃ doping. IOP Conference Series: Materials Science and Engineering, 2020, 756, 012019.	0.3	0
20	Modified Interconductor Contact Resistivity in Coated Conductor Stacks and Roebel Cables. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	8
21	High critical current density in internally-oxidized Nb ₃ Sn superconductors and its origin. Scripta Materialia, 2020, 186, 317-320.	2.6	24
22	High performance, advanced-internal-magnesium-infiltration (AIMI) MgB ₂ wires processed using a vapor-solid reaction route. Superconductor Science and Technology, 2020, 33, 094004.	1.8	10
23	A Tear-Drop Bifilar Sample Holder for Full Excitation and Stability Studies of HTS Cables at 4.2 K Using a Superconducting Transformer. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	0
24	Quench, normal zone propagation velocity, and the development of an active protection scheme for a conduction cooled, react-and-wind, MgB ₂ MRI coil segment. Superconductor Science and Technology, 2019, 32, 125003.	1.8	6
25	Influence of thermal and electrical turn-to-turn sharing on quench protection in superconducting coils for very high density motors and generators for hybrid-electric aircraft. , 2019, , .		1
26	Quench Measurements in a YBCO Pancake Coil at 77 K and 4.2 K in Magnetic Fields up to 10 Tesla. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	1
27	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.	1.1	11
28	Magnetization and Creep in YBCO Tape and CORC Cables for Particle Accelerators: Value and Modification Via Preinjection Cycle. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	8
29	Magnetization Measurements of CORC TM and Roebel Type YBCO Cables for Accelerators Using a ± 3 -T Dipole Magnetometer. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	5
30	Study of Superconducting, Structural, and Thermal Properties of SnO ₂ Added MgB ₂ Bulks. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	2
31	AC Loss of Superconducting Materials- refined loss estimates for very high density motors and generators for hybrid-electric aircraft: MgB ₂ wires, Coated conductor tapes and wires. , 2019, , .		12
32	Influence of Compaction During Reaction Heat Treatment on the Interstrand Contact Resistances of Nb ₃ Sn Rutherford Cables for Accelerator Magnets. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4.	1.1	0
33	Instrumentation, cooling, and initial testing of a large, conduction-cooled, react-and-wind MgB ₂ coil segment for MRI applications. Superconductor Science and Technology, 2018, 31, 085013.	1.8	12
34	AC Loss of Superconducting Materials in Motors and Generators for Very High Density Motors and Generators for Hybrid-Electric Aircraft. , 2018, , .		16
35	Single-Strand Excitation for Probing Current Sharing and Parallel Resistance in Cored Nb ₃ Sn Rutherford Cables at 4.2 K and 10 Tesla. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.1	0
36	Fabrication and Superconductivity of Ba _{0.6} K _{0.4} Fe ₂ As ₂ /Ag Wires and Tapes Using Mechanical Alloyed Precursor. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	1

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37	Architecture and Transport Properties of Multifilamentary MgB ₂ Strands for MRI and Low AC Loss Applications. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	13
38	AC Loss Reduction in Multifilamentary Coated Conductors With Transposed Filaments. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	3
39	Demonstration of a Practical Nb ₃ Sn Coil for an Actively Shielded Generator. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-7.	1.1	1
40	Influence of oxygen doping on critical fields in MgB ₂ bulk superconductors. IOP Conference Series: Materials Science and Engineering, 2017, 279, 012025.	0.3	2
41	Persistent-current magnetizations of Nb ₃ Sn Rutherford cables and extracted strands. IOP Conference Series: Materials Science and Engineering, 2017, 279, 012037.	0.3	1
42	Interstrand Coupling Properties of LARP High Gradient Quadrupole Cables in Response to Variations in Cable Design and Heat Treatment Condition. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	2
43	Pressure-induced property improvement of magnesium diboride wire. IOP Conference Series: Materials Science and Engineering, 2017, 279, 012024.	0.3	7
44	Stability and normal zone propagation in YBCO CORC cables. Superconductor Science and Technology, 2016, 29, 044006.	1.8	18
45	A model for the compositions of non-stoichiometric intermediate phases formed by diffusion reactions and its application to Nb ₃ Sn superconductors. Scientific Reports, 2016, 6, 19096.	1.6	17
46	Influence of Metal Diboride and Dy ₂ O ₃ Additions on Microstructure and Properties of MgB ₂ Fabricated at High Temperatures and under Pressure. Scientific Reports, 2016, 6, 29306.	1.6	17
47	A conduction cooled Nb ₃ Sn racetrack coil: Design, construction, and testing. , 2016, , .		1
48	Bulge testing of copper and niobium tubes for hydroformed RF cavities. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 654, 13-20.	2.6	3
49	The effect of chemical pressure on the structure and properties of A ₂ CrOsO ₆ (A=Sr, Ca) ferrimagnetic double perovskite. Journal of Solid State Chemistry, 2016, 238, 46-52.	1.4	44
50	Microstructures and superconducting properties of high performance MgB ₂ thin films deposited from a high-purity, dense MgB target. Applied Surface Science, 2015, 357, 452-458.	3.1	3
51	Magnetic structure of the quasi-one-dimensional La ₃ O ₇ as determined by neutron powder diffraction. Physical Review B, 2015, 92, .	1.1	9
52	Internally Oxidized Nb ₃ Sn Strands with Fine Grain Size and High Critical Current Density. Advanced Materials, 2015, 27, 1346-1350.	11.1	56
53	Demonstration of Conduction Cooled React and Wind MgB ₂ Coil Segment for MRI Applications. IEEE Transactions on Applied Superconductivity, 2015, 26, 1-1.	1.1	13
54	Validation of Finite-Element Models of Persistent-Current Effects in Nb ₃ Sn Accelerator Magnets. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-6.	1.1	14

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55	Persistent-Current Magnetization of Nb_3Sn Strands: Influence of Applied Field Angle and Transport Current. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	4
56	Kinetic analysis of MgB ₂ layer formation in advanced internal magnesium infiltration (AIMI) processed MgB ₂ wires. Acta Materialia, 2015, 96, 66-71.	3.8	28
57	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.	1.1	9
58	Effects of Core Type, Placement, and Width on the Estimated Interstrand Coupling Properties of QXF-Type Nb ₃ Sn Rutherford Cables. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.1	6
59	Inter-strand current sharing and ac loss measurements in superconducting YBCO Roebel cables. Superconductor Science and Technology, 2015, 28, 055010.	1.8	5
60	Influence of twisting and bending on the J and n-value of multifilamentary MgB ₂ strands. Physica C: Superconductivity and Its Applications, 2015, 519, 118-123.	0.6	11
61	Chemical synthesis of superconducting MgB ₂ nanopowder. Journal of Alloys and Compounds, 2015, 622, 986-988.	2.8	6
62	Homogeneous carbon doping of magnesium diboride by high-temperature, high-pressure synthesis. Applied Physics Letters, 2014, 104, .	1.5	20
63	Enhanced higher temperature (20â€“30â€“K) transport properties and irreversibility field in nano-Dy ₂ O ₃ doped advanced internal Mg infiltration processed MgB ₂ composites. Applied Physics Letters, 2014, 105, .	1.5	33
64	Refinement of Nb ₃ Sn grain size by the generation of ZrO ₂ precipitates in Nb ₃ Sn wires. Applied Physics Letters, 2014, 104, 082602.	1.5	52
65	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.	1.1	25
66	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.	1.3	20
67	Experimental determination of the peritectic transition temperature of MgB ₂ in the Mgâ€“B phase diagram. Thermochimica Acta, 2014, 576, 27-35.	1.2	13
68	Magnetization losses in superconducting YBCO conductor-on-round-core (CORC) cables. Superconductor Science and Technology, 2014, 27, 125008.	1.8	39
69	Extracted Strand Magnetizations of an HQ Type Nb_3Sn Rutherford Cable and Estimation of Transport Corrections at Operating and Injection Fields. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.1	6
70	The Effects of Ti Addition and High Cu/Sn Ratio on Tube Type Nb_3Sn Strands, and a New Type of Strand Designed to Reduce Unreacted Nb Ratio. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-4.	1.1	2
71	Influence of heat treatment temperature and Ti doping on low-field flux jumping and stability in (Nb-Ta) ₃ Sn strands. Superconductor Science and Technology, 2014, 27, 095009.	1.8	10
72	Stability, Inter-Strand Contact Resistance, and AC Losses in YBCO Roebel Cables. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.1	17

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73	Transport Critical Current Densities and n -Values of Multifilamentary MgB_2 Wires at Various Temperatures and Magnetic Fields. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.1	7
74	Cation non-stoichiometry in pulsed laser deposited $\text{Sr}_{2+y}\text{Fe}_{1+x}\text{Mo}_{1-x}\text{O}_6$ epitaxial films. Journal of Applied Physics, 2014, 116, .	1.1	3
75	Evidence for Zr site-substitution for Mg in PLD-deposited MgB_2 thin films. Superconductor Science and Technology, 2014, 27, 075009.	1.8	4
76	Intrawire resistance, AC loss and strain dependence of critical current in MgB_2 wires with and without cold high-pressure densification. Superconductor Science and Technology, 2014, 27, 075002.	1.8	9
77	Smoothing of niobium by electropolishing. Journal of Applied Electrochemistry, 2013, 43, 829-838.	1.5	9
78	Critical current densities and microstructures in rod-in-tube and tube type Nb_3Sn strands—present status and prospects for improvement. Superconductor Science and Technology, 2013, 26, 075015.	1.8	11
79	Specific Heats of Composite $\text{Bi}_2\text{212}$, Nb_3Sn , and MgB_2 Wire Conductors. IEEE Transactions on Applied Superconductivity, 2013, 23, 8800204-8800204.	1.1	5
80	Evaluation of Mechanical Properties of Tubular Materials With Hydraulic Bulge Test for Superconducting Radio Frequency (SRF) Cavities. IEEE Transactions on Applied Superconductivity, 2013, 23, 3500604-3500604.	1.1	1
81	Coupling- and Persistent-Current Magnetizations of Nb_3Sn Rutherford Cables With Cores of Stainless Steel and Woven Glass-Fiber Tape Measured by Pick-Up Coil Magnetometry. IEEE Transactions on Applied Superconductivity, 2013, 23, 4702305-4702305.	1.1	5
82	LiFeAs Pnictide Superconductor—A Simple Electrochemical Method of Preparation. IEEE Transactions on Applied Superconductivity, 2013, 23, 7300204-7300204.	1.1	4
83	Intra-wire resistance and AC loss in multi-filamentary MgB_2 wires. Superconductor Science and Technology, 2013, 26, 025002.	1.8	4
84	A model for phase evolution and volume expansion in tube type Nb_3Sn conductors. Superconductor Science and Technology, 2013, 26, 125006.	1.8	7
85	Effects of oxide precursors on superconducting properties of polycrystalline $\text{SmFeAsO}_{1-x}\text{F}_x$. Physica C: Superconductivity and Its Applications, 2013, 495, 198-201.	0.6	0
86	Critical current densities of doped MgB_2 strands in low and high applied field ranges: The $J_c(B)$ crossover effect. Physica C: Superconductivity and Its Applications, 2013, 490, 20-25.	0.6	11
87	Critical Current Density and Current Transfer Length of Multifilamentary MgB_2 Strands of Various Design. IEEE Transactions on Applied Superconductivity, 2013, 23, 6200204-6200204.	1.1	11
88	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.	1.1	22
89	Effects of carbon concentration and filament number on advanced internal Mg infiltration-processed MgB_2 strands. Superconductor Science and Technology, 2013, 26, 095007.	1.8	33
90	Analysis of materials properties of niobium tube from the results of a virtual bulge test. AIP Conference Proceedings, 2012, .	0.3	3

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91	Magnetic measurement of interstrand contact resistance and persistent-current magnetization of Nb ₃ Sn Rutherford cables with cores of MgO tape and woven S-glass ribbon. , 2012, , .		3
92	Stability and Normal Zone Propagation in a 50 Tesla Solenoid Wound of YBCO Coated Conductor Tape—FEM Modeling. IEEE Transactions on Applied Superconductivity, 2012, 22, 4705104-4705104. <small>Fully ordered Sn <math>\text{CrReO}</math> <math>\text{CrReO}</math> <math>\text{CrReO}</math> <math>\text{CrReO}</math> <small><math display="inline">\frac{2}{6}</math></small></small>	1.1	4
93	epitaxial films: A high-temperature ferrimagnetic semiconductor. Physical Review B, 2012, 85, .	1.1	70
94	Critical current densities and <i>n</i> -values of MgB ₂ strands over a wide range of temperatures and fields. Superconductor Science and Technology, 2012, 25, 025001.	1.8	50
95	Drawing induced texture and the evolution of superconductive properties with heat treatment time in powder-in-tube <i>in situ</i> processed MgB ₂ strands. Superconductor Science and Technology, 2012, 25, 065002.	1.8	47
96	A model superconducting helical undulator fabricated using a small filament, tube-type, multifilamentary Nb ₃ Sn wire. Superconductor Science and Technology, 2012, 25, 115006.	1.8	3
97	On the Mechanism of Niobium Electropolishing. Journal of the Electrochemical Society, 2012, 159, C485-C491.	1.3	24
98	Influence of Strand Design, Boron Type, and Carbon Doping Method on the Transport Properties of Powder-in-Tube $\text{MgB}_{2-x}\text{C}_x$ Strands. IEEE Transactions on Applied Superconductivity, 2012, 22, 6200110-6200110.	1.1	6
99	The Effect of Ta and Ti Additions on the Strain Sensitivity of Bulk Niobium-Tin. Physics Procedia, 2012, 36, 491-496.	1.2	6
100	Effects of cold high pressure densification on Cu sheathed Ba _{0.6} K _{0.4} Fe ₂ As ₂ superconducting wire. Physica C: Superconductivity and Its Applications, 2012, 483, 13-16.	0.6	14
101	The critical current density of advanced internal-Mg-diffusion-processed MgB ₂ wires. Superconductor Science and Technology, 2012, 25, 115023.	1.8	71
102	Interstrand Contact Resistance and Magnetization of Nb_3Sn Rutherford Cables With Cores of Different Materials and Widths. IEEE Transactions on Applied Superconductivity, 2012, 22, 6000904-6000904.	1.1	11
103	Critical current density and stability of Tube Type Nb ₃ Sn conductors. Cryogenics, 2012, 52, 91-99.	0.9	13
104	Effects of Heat Treatments on the Properties of $\text{SmFeAsO}_{1-x}\text{F}_x$ Oxypnictide Bulks Prepared via a Single-Step Route. IEEE Transactions on Applied Superconductivity, 2011, 21, 2853-2857.	1.1	1
105	Analysis of Bulk and Thin Film Model Samples Intended for Investigating the Strain Sensitivity of Niobium-Tin. IEEE Transactions on Applied Superconductivity, 2011, 21, 2550-2553.	1.1	6
106	Strain and Magnetization Properties of High Subelement Count Tube-Type $\text{m Nb}_3\text{m Sn}$ Strands. IEEE Transactions on Applied Superconductivity, 2011, 21, 2559-2562.	1.1	14
107	Transport, Magnetic, and SEM Characterization of a Novel Design Bi-2212 Strand. IEEE Transactions on Applied Superconductivity, 2011, 21, 2804-2807.	1.1	5
108	AC Magnetization Loss of a YBCO Coated Conductor Measured Using Three Different Techniques. IEEE Transactions on Applied Superconductivity, 2011, 21, 3293-3296.	1.1	8

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109	Carbon doping of MgB ₂ by toluene and malic-acid-in-toluene. Physica C: Superconductivity and Its Applications, 2011, 471, 108-111.	0.6	28
110	Design of Nb_3Sn -Based Short Period Model Superconducting Helical Undulator. IEEE Transactions on Applied Superconductivity, 2011, 21, 1713-1716.	1.1	1
111	Coupling Loss, Interstrand Contact Resistance, and Magnetization of Nb_3Sn Rutherford Cables With Cores of MgO Tape and S-Glass Ribbon. IEEE Transactions on Applied Superconductivity, 2011, 21, 2367-2371.	1.1	8
112	Density effect on critical current density and flux pinning properties of polycrystalline $\text{SmFeAsO}_{1-x}\text{F}_x$ superconductor. Superconductor Science and Technology, 2011, 24, 125012.	1.8	14
113	Enhanced critical fields and superconducting properties of pre-doped B powder-type MgB_2 strands. Superconductor Science and Technology, 2011, 24, 012001.	1.8	49
114	Doping effect and flux pinning mechanism of nano-SiC additions in MgB_2 strands. Superconductor Science and Technology, 2011, 24, 065015.	1.8	30
115	Anisotropic connectivity and its influence on critical current densities, irreversibility fields, and flux creep in <i>in situ</i> processed MgB_2 strands. Superconductor Science and Technology, 2010, 23, 045018.	1.8	26
116	Frequency dependence of magnetic ac loss in a Roebel cable made of YBCO on a $\text{Ni}\text{-}\text{W}$ substrate. Superconductor Science and Technology, 2010, 23, 085009.	1.8	23
117	Coupling- and Persistent-Current Magnetizations of Nb_3Sn Rutherford Cables. IEEE Transactions on Applied Superconductivity, 2010, 20, 1387-1390.	1.1	8
118	A Nb_3Sn -Based, Model Superconducting Helical Undulator Fabricated Using a Wind and React Process. IEEE Transactions on Applied Superconductivity, 2010, 20, 270-273.	1.1	3
119	COMPARISON OF A15 STOICHIOMETRY AND GRAIN MORPHOLOGY IN INTERNAL Sn AND TUBE TYPE STRANDS; INFLUENCE OF STRAND DESIGN, HTs AND ALLOYING. , 2010, , .		2
120	STABILITY IN Nb_3Sn CONDUCTORS; MAGNETIC AND SELF-FIELD INSTABILITY CONSIDERATIONS AT 4 K AND 2 K. , 2010, , .		2
121	PLASMA SYNTHESIZED BORON NANO-SIZED POWDER FOR MgB_2 WIRES. AIP Conference Proceedings, 2010, , .	0.3	18
122	COUPLING-CURRENT AND PERSISTENT-CURRENT MAGNETIZATIONS IN Nb_3Sn RUTHERFORD CABLES AND STRANDS. , 2010, , .		2
123	SECOND PHASE (BaGeO_3 , BaSiO_3) NANOCOLUMNS IN $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ FILMS. , 2010, , .		0
124	Thermal diffusion and quench propagation in YBCO pancake coils wound with ZnO and Mylar insulations. Superconductor Science and Technology, 2010, 23, 075004.	1.8	20
125	Comparison of Critical Current Density in MgB_2 With Different Boron Sources and Nano-Particle Dopant Additions. IEEE Transactions on Applied Superconductivity, 2009, 19, 2756-2759.	1.1	13
126	Electrical resistivity, Debye temperature, and connectivity in heavily doped bulk MgB_2 superconductors. Journal of Applied Physics, 2009, 105, .	1.1	22

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127	A Model Superconducting Helical Undulator Wound Using a Wind and React MgB_2 Multifilamentary Wire. IEEE Transactions on Applied Superconductivity, 2009, 19, 1376-1379.	1.1	5
128	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.	1.1	11
129	Transport AC Loss Reduction in Striated YBCO Coated Conductors by Magnetic Screening. IEEE Transactions on Applied Superconductivity, 2009, 19, 3352-3355.	1.1	8
130	Numerical Modeling of the AC Limiting Properties of Insulated, Conduction Cooled MgB_2 Strands. IEEE Transactions on Applied Superconductivity, 2009, 19, 1872-1875.	1.1	1
131	A MgB_2 12.5 kVA superconductor transformer. Superconductor Science and Technology, 2009, 22, 065002.	1.8	17
132	Effect of Cable Edge Deformation on RRR and Magnetization of Strands Extracted From Nb_3Sn Rutherford-Type Cables. IEEE Transactions on Applied Superconductivity, 2009, 19, 2481-2485.	1.1	4
133	Nb_3Sn Superconductors Made by an Economical Tubular Process. IEEE Transactions on Applied Superconductivity, 2009, 19, 2602-2605.	1.1	6
134	Investigation of the Effects of Low Temperature Heat Treatments on the Microstructure and Properties of Multifilamentary, Tube-Type Nb_3Sn Strands. IEEE Transactions on Applied Superconductivity, 2009, 19, 2588-2592.	1.1	8
135	AC Losses in MgB_2 Multifilamentary Strands With Magnetic and Non-Magnetic Sheath Materials. IEEE Transactions on Applied Superconductivity, 2009, 19, 3106-3109.	1.1	15
136	AC LOSSES IN YBCO COATED CONDUCTORS WITH DIFFERENT SUBSTRATES AND DIFFERENT STABILIZING LAYERS. AIP Conference Proceedings, 2008, , . Magnetization creep and decay in $\mathbb{YBaCuO$ films with artificial nanostructure p. Physical Review B, 2008, 77, .	0.3	3
137	\mathbb{YBaCuO} films with artificial nanostructure p. Physical Review B, 2008, 77, .	1.1	11
138	Niobium Tin Conductors for High Energy Physics, Fusion, MRI and NMR Applications Made by Different Techniques. IEEE Transactions on Applied Superconductivity, 2008, 18, 989-992.	1.1	6
139	Characterization of the A15 Layer Growth and Microstructure for Varying Heat Treatments in Nb_3Sn Tube Type Composites. IEEE Transactions on Applied Superconductivity, 2008, 18, 1005-1009.	1.1	7
140	Prospects for improving the intrinsic and extrinsic properties of magnesium diboride superconducting strands. Superconductor Science and Technology, 2008, 21, 103001.	1.8	158
141	Influence of a Stainless Steel Core on Coupling Loss, Interstrand Contact Resistance, and Magnetization of an Nb_3Sn Rutherford Cable. IEEE Transactions on Applied Superconductivity, 2008, 18, 1301-1304.	1.1	12
142	EFFECT OF REVERSE AUSTENITE ON THE CRYOGENIC TENSILE PROPERTIES OF 0Cr13Ni4Mo MARTENSITIC STEEL. AIP Conference Proceedings, 2008, , .	0.3	3
143	TESTS OF INSULATION SYSTEMS FOR Nb_3Sn WIND AND REACT COILS. AIP Conference Proceedings, 2008, , .	0.3	3
144	A TUBULAR PROCESS FOR MAKING Nb_3Sn CONDUCTORS. AIP Conference Proceedings, 2008, , .	0.3	8

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145	EFFECTS OF INITIAL Sn ⁺ -Cu RATIO AND HEAT TREATMENT ON THE MICROSTRUCTURE AND MICROCHEMISTRY OF Cu-Nb-Sn-Ta TUBE TYPE COMPOSITES. AIP Conference Proceedings, 2008, , .	0.3	7
146	EFFECTS OF SIMULTANEOUS TITANIUM AND TANTALUM ADDITIONS ON THE PROPERTIES OF INTERNAL TIN TYPE Nb ₃ Sn STRANDS. AIP Conference Proceedings, 2008, , .	0.3	2
147	HOT EXTRUSION OF EX-SITU MgB ₂ POWDER. AIP Conference Proceedings, 2008, , .	0.3	0
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