Toshiyuki Mito

List of Publications by Year
in descending order

379	4,516	147801	197818
papers	citations	31 h-index	49 g-index

386	386	386	1401
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Overview of the Large Helical Device project. Nuclear Fusion, 1999, 39, 1245-1256.	3.5	270
2	Goal and Achievements of Large Helical Device Project. Fusion Science and Technology, 2010, 58, 1-11.	1.1	127
3	Recent advances in the LHD experiment. Nuclear Fusion, 2003, 43, 1674-1683.	3.5	119
4	Extension of the operational regime of the LHD towards a deuterium experiment. Nuclear Fusion, 2017, 57, 102023.	3.5	116
5	Physics and engineering design studies on the Large Helical Device. Fusion Engineering and Design, 1993, 20, 3-14.	1.9	103
6	Large Helical Device (LHD) program. Journal of Fusion Energy, 1996, 15, 7-153.	1.2	67
7	Design and development of high-temperature superconducting magnet system with joint-winding for the helical fusion reactor. Nuclear Fusion, 2015, 55, 053021.	3.5	61
8	Progress summary of LHD engineering design and construction. Nuclear Fusion, 2000, 40, 599-609.	3.5	60
9	Radial electric field and transport near the rational surface and the magnetic island in LHD. Nuclear Fusion, 2004, 44, 290-295.	3.5	58
10	MHD instabilities and their effects on plasma confinement in Large Helical Device plasmas. Nuclear Fusion, 2004, 44, 217-225.	3.5	57
11	Heat transfer performance of cryogenic oscillating heat pipes for effective cooling of superconducting magnets. Cryogenics, 2011, 51, 309-314.	1.7	57
12	Development of net-current free heliotron plasmas in the Large Helical Device. Nuclear Fusion, 2009, 49, 104015.	3.5	54
13	Overview of LHD experiments. Nuclear Fusion, 2001, 41, 1355-1367.	3.5	53
14	Conceptual design activities and key issues on LHD-type reactor FFHR. Fusion Engineering and Design, 2006, 81, 2703-2712.	1.9	53
15	Optimization activities on design studies of LHD-type reactor FFHR. Fusion Engineering and Design, 2008, 83, 1690-1695.	1.9	53
16	Plasma physics and laser development for the Fast-Ignition Realization Experiment (FIREX) Project. Nuclear Fusion, 2009, 49, 104024.	3.5	45
17	Extended steady-state and high-beta regimes of net-current free heliotron plasmas in the Large Helical Device. Nuclear Fusion, 2007, 47, S668-S676.	3.5	44
18	Design Progress on the High-Temperature Superconducting Coil Option for the Heliotron-Type Fusion Energy Reactor FFHR. Fusion Science and Technology, 2011, 60, 648-652.	1.1	42

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19	Impact of heat deposition profile on global confinement of NBI heated plasmas in the LHD. Nuclear Fusion, 2003, 43, 749-755.	3.5	39
20	Conceptual design of a thin superconducting solenoid for particle astrophysics. IEEE Transactions on Magnetics, 1988, 24, 1421-1424.	2.1	37
21	Achievement of High Heat Removal Characteristics of Superconducting Magnets With Imbedded Oscillating Heat Pipes. IEEE Transactions on Applied Superconductivity, 2011, 21, 2470-2473.	1.7	36
22	Concept of magnet systems for LHD-type reactor. Nuclear Fusion, 2009, 49, 075017.	3.5	35
23	Extension of operation regimes and investigation of three-dimensional currentless plasmas in the Large Helical Device. Nuclear Fusion, 2013, 53, 104015.	3.5	35
24	Performance of the TOPAZ Thin Superconducting Solenoid Wound with Internal Winding Method. Japanese Journal of Applied Physics, 1986, 25, L440-L442.	1.5	34
25	Plasma performance and impurity behaviour in long pulse discharges on LHD. Nuclear Fusion, 2003, 43, 219-227.	3.5	34
26	Foam materials for cryogenic targets of fast ignition realization experiment (FIREX). Nuclear Fusion, 2005, 45, 1277-1283.	3.5	34
27	Development of Highly Effective Cooling Technology for a Superconducting Magnet Using Cryogenic OHP. IEEE Transactions on Applied Superconductivity, 2010, 20, 2023-2026.	1.7	33
28	Measurement and Analysis of Critical Current of 100-kA Class Simply-Stacked HTS Conductors. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	33
29	Short sample tests of aluminum-stabilized superconductors for Large Helical Device. Fusion Engineering and Design, 1993, 20, 233-242.	1.9	32
30	Present status of design and manufacture of the superconducting magnets for the Large Helical Device. IEEE Transactions on Applied Superconductivity, 1993, 3, 365-368.	1.7	31
31	Extra AC losses for a CICC coil due to the non-uniform current distribution in the cable. Cryogenics, 1998, 38, 551-558.	1.7	31
32	Asymmetrical Normal-Zone Propagation Observed in the Aluminum-Stabilized Superconductor for the LHD Helical Coils. IEEE Transactions on Applied Superconductivity, 2004, 14, 1507-1510.	1.7	31
33	Dynamic simulation of the helium refrigerator/liquefier for LHD. Cryogenics, 2005, 45, 199-211.	1.7	31
34	Conceptual design of an indirect-cooled superconducting magnet for the LHD-type fusion reactor FFHR. Fusion Engineering and Design, 2007, 82, 1487-1492.	1.9	31
35	Development of Cryogenic Oscillating Heat Pipe as a New Device for Indirect/Conduction Cooled Superconducting Magnets. IEEE Transactions on Applied Superconductivity, 2012, 22, 4703904-4703904.	1.7	31
36	Experimental Observation of Anomalous Magneto-Resistivity in 10â€“20 kA Class Aluminum-Stabilized Superconductors for the Large Helical Device. , 1994, , 459-468.		31

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37	Stability tests of the Nb-Ti cable-in-conduit superconductor with bare strands for demonstration of the Large Helical Device poloidal field coils. IEEE Transactions on Magnetics, 1994, 30, 1705-1709.	2.1	29
38	High-Temperature Superconducting Coil Option for the LHD-Type Fusion Energy Reactor FFHR. Plasma and Fusion Research, 2008, 3, S1049-S1049.	0.7	29
39	Stability of cable-in-conduit superconductors for Large Helical Device. IEEE Transactions on Applied Superconductivity, 1993, 3, 511-514.	1.7	28
40	Plasma confinement studies in LHD. Nuclear Fusion, 1999, 39, 1659-1666.	3.5	28
41	Flow damping due to stochastization of the magnetic field. Nature Communications, 2015, 6, 5816.	12.8	28
42	Superconducting test facility of NIFS for the Large Helical Device. Fusion Engineering and Design, 1993, 20, 147-151.	1.9	27
43	Construction and Operation of an Internal Coil Device with a High Temperature Superconductor. Journal of Plasma and Fusion Research, 2003, 79, 643-644.	0.4	27
44	Development and Test of JT-60SA Central Solenoid Model Coil. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	26
45	Ion cyclotron range of frequencies heating and high-energy particle production in the Large Helical Device. Nuclear Fusion, 2003, 43, 738-743.	3.5	25
46	Magnet design with 100-kA HTS STARS conductors for the helical fusion reactor. Cryogenics, 2016, 80, 243-249.	1.7	25
47	Results of the first excitation of helical coils of the Large Helical Device. IEEE Transactions on Applied Superconductivity, 2000, 10, 606-609.	1.7	24
48	Stress/strain characteristics of PIT MgB2 tapes with nickel sheathâ€“â€“effect of indium addition to the core. Physica C: Superconductivity and Its Applications, 2003, 397, 95-98.	1.2	24
49	Development and quality control of the superconductors for the helical coils of LHD. Fusion Engineering and Design, 1998, 41, 241-246.	1.9	23
50	Progress of the Design of HTS Magnet Option and R&D Activities for the Helical Fusion Reactor. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	23
51	Interstrand coupling effect on losses and current distributions in superconducting cable conductors. Cryogenics, 1994, 34, 293-301.	1.7	22
52	Tensile and bending mechanical properties of bulk superconductors at room temperature. Physica C: Superconductivity and Its Applications, 2004, 412-414, 633-637.	1.2	22
53	Development of UPS-SMES as a Protection From Momentary Voltage Drop. IEEE Transactions on Applied Superconductivity, 2004, 14, 721-726.	1.7	21
54	AC loss measurements of the experiments on a single inner vertical coil (EXSIV) for the Large Helical Device. IEEE Transactions on Applied Superconductivity, 1997, 7, 330-334.	1.7	20

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55	Performance of the Helical Coils for the Large Helical Device in Six Years' Operation. IEEE Transactions on Applied Superconductivity, 2004, 14, 1388-1393.	1.7	20
56	Upgrading the NIFS superconductor test facility for JT-60SA cable-in-conduit conductors. Fusion Engineering and Design, 2009, 84, 1442-1445.	1.9	20
57	A superconducting spectrometer for the study of hypernuclei via (Ïє, K+) reactions. Il Nuovo Cimento A, 1989, 102, 679-694.	0.2	19
58	Development of superconducting conductors for Large Helical Device. IEEE Transactions on Magnetics, 1991, 27, 2224-2227.	2.1	19
59	Short sample tests of full-scale superconducting conductors for Large Helical Device. IEEE Transactions on Magnetics, 1992, 28, 214-217.	2.1	19
60	Stabilities of the Rutherford cables with Cu matrix and CuMn barrier. IEEE Transactions on Applied Superconductivity, 1995, 5, 385-388.	1.7	19
61	Overview of long pulse operation in the Large Helical Device. Nuclear Fusion, 2000, 40, 1157-1166.	3.5	19
62	Experimental Results of Large-Current Capacity HTS Conductors. IEEE Transactions on Applied Superconductivity, 2008, 18, 1151-1154.	1.7	19
63	Summary of a 1 MJ Conduction-Cooled LTS Pulse Coil Developed for 1 MW, 1 s UPS-SMES. IEEE Transactions on Applied Superconductivity, 2009, 19, 1999-2003.	1.7	19
64	Progress in the Integrated Development of the Helical System. Fusion Science and Technology, 2010, 58, 12-28.	1.1	19
65	Design and fabrication of forced-flow coils as an R&D program for Large Helical Device. IEEE Transactions on Magnetics, 1991, 27, 2353-2356.	2.1	18
66	Superconducting current feeder system for the large helical device. IEEE Transactions on Magnetics, 1996, 32, 2422-2425.	2.1	18
67	Analysis of the normal transition event of the LHD helical coils. IEEE Transactions on Applied Superconductivity, 2000, 10, 610-613.	1.7	18
68	Kapitza conductance of an oxidized copper surface in saturated He II. Cryogenics, 2001, 41, 367-371.	1.7	18
69	Applied superconductivity and cryogenic research activities in NIFS. Fusion Engineering and Design, 2006, 81, 2389-2400.	1.9	18
70	Test operations of the VENUS superconducting magnet at KEK. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1987, 254, 317-326.	1.6	17
71	Experimental results of the R&D forced-flow poloidal coil (TOKI-PF). Fusion Engineering and Design, 1993, 20, 161-166.	1.9	17
72	Results on the superconducting magnet system for the Large Helical Device. IEEE Transactions on Applied Superconductivity, 2000, 10, 600-605.	1.7	17

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73	Coupling losses in cable-in-conduit conductors for LHD poloidal coils. Fusion Engineering and Design, 2003, 65, 39-45.	1.9	17
74	Results of Stability Test in Subcooled Helium for the R&D Coil of the LHD Helical Coil. IEEE Transactions on Applied Superconductivity, 2004, 14, 1511-1514.	1.7	17
75	Development of a 20 kA high temperature superconductor current lead. Cryogenics, 2001, 41, 539-547.	1.7	16
76	Experimental studies towards long pulse steady state operation in LHD. Nuclear Fusion, 2001, 41, 779-790.	3.5	16
77	Engineering design of the mini-RT device. IEEE Transactions on Applied Superconductivity, 2003, 13, 1500-1503.	1.7	16
78	Sawtooth Oscillation in Current-Carrying Plasma in the Large Helical Device. Physical Review Letters, 2003, 90, 205001.	7.8	16
79	Cool-down performance of the apparatus for the cryogenic target of the FIREX project. Fusion Engineering and Design, 2006, 81, 1647-1652.	1.9	16
80	Critical current measurement of prototype NbTi cable-in-conduit conductor for JT-60SA. Fusion Engineering and Design, 2009, 84, 1058-1062.	1.9	16
81	10 years of engineering and physics achievements by the Large Helical Device project. Fusion Engineering and Design, 2009, 84, 186-193.	1.9	16
82	Conceptual design of 1 GW class hybrid energy transfer line of hydrogen and electricity. Journal of Physics: Conference Series, 2010, 234, 032064.	0.4	16
83	Enhancement of Thermal Properties of HTS Magnets Using Built-in Cryogenic Oscillating Heat Pipes. IEEE Transactions on Applied Superconductivity, 2013, 23, 4602905-4602905.	1.7	16
84	Performance of a Mechanical Bridge Joint for 30-kA-Class High-Temperature Superconducting Conductors. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	16
85	Critical Current Measurement of 30 kA-Class HTS Conductor Samples. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	16
86	Research and development of superconductors and superconducting coils for the Large Helical Device. Fusion Engineering and Design, 1993, 20, 139-146.	1.9	15
87	Levitation Experiment Using a High-Temperature Superconductor Coil for a Plasma Confinement Device. Japanese Journal of Applied Physics, 2001, 40, L1029-L1031.	1.5	15
88	Development of FAIR conductor and HTS coil for fusion experimental device. Journal of Physics Communications, 2020, 4, 035009.	1.2	15
89	Extension of Improved Particle and Energy Confinement Regime in the Core of LHD Plasma. Plasma and Fusion Research, 2009, 4, 027-027.	0.7	15
90	Superconducting coil design for Large Helical Device. IEEE Transactions on Magnetics, 1991, 27, 2220-2223.	2.1	14

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91	Excitation test results on a single inner vertical coil for the Large Helical Device. IEEE Transactions on Applied Superconductivity, 1997, 7, 477-480.	1.7	14
92	High current transport test of a YBCO bulk conductor up to 25 kA. IEEE Transactions on Applied Superconductivity, 1999, 9, 1281-1284.	1.7	14
93	Experimental Investigation of the Minimum Propagation Currents and Quench Characteristics of LTS/HTS Hybrid Conductors. IEEE Transactions on Applied Superconductivity, 2007, 17, 2474-2477.	1.7	14
94	Cryogenic Stability of LTS/HTS Hybrid Conductors. IEEE Transactions on Applied Superconductivity, 2007, 17, 2486-2489.	1.7	14
95	HTS Current Leads Prepared by the TFA-MOD Processed YBCO Tapes. IEEE Transactions on Applied Superconductivity, 2011, 21, 1054-1057.	1.7	14
96	Measurement of the Joint Resistance of Large-Current YBCO Conductors. Plasma and Fusion Research, 2012, 7, 2405027-2405027.	0.7	14
97	Design and fabrication of module coil as an R&D program for Large Helical Device. IEEE Transactions on Magnetics, 1991, 27, 2361-2364.	2.1	13
98	Winding Techniques for Conduction Cooled LTS Pulse Coils for 100 kJ Class UPS-SMES as a Protection From Momentary Voltage Drops. IEEE Transactions on Applied Superconductivity, 2004, 14, 727-730.	1.7	13
99	Experimental Evaluation of Loss Generation in HTS Coils Under Various Conditions. IEEE Transactions on Applied Superconductivity, 2005, 15, 1711-1714.	1.7	13
100	Stability measurements of LTS/HTS hybrid superconductors. Fusion Engineering and Design, 2006, 81, 2485-2489.	1.9	13
101	Upgrading program for improving the cryogenic stability of LHD helical coils by lowering the operating temperature. Fusion Engineering and Design, 2006, 81, 2583-2588.	1.9	13
102	Achievement of high availability in long-term operation and upgrading plan of the LHD superconducting system. Nuclear Fusion, 2007, 47, 353-360.	3.5	13
103	Test results of a 20 kA current lead using Ag/Au stabilized Bi-2223 tapes. IEEE Transactions on Applied Superconductivity, 2001, 11, 2603-2606.	1.7	12
104	Analysis on the cryogenic stability and mechanical properties of the LHD helical coils. IEEE Transactions on Applied Superconductivity, 2002, 12, 662-665.	1.7	12
105	Performance test of Bi-2212 HTS current leads prepared by the diffusion process. IEEE Transactions on Applied Superconductivity, 2002, 12, 1332-1335.	1.7	12
106	Compressive mechanical properties of Sm123 bulk superconductor at liquid nitrogen temperature. Physica C: Superconductivity and Its Applications, 2005, 426-431, 644-648.	1.2	12
107	Experiments of Bending Strain on Reduced-Scale HTS Conductors for Fusion Energy Reactors. IEEE Transactions on Applied Superconductivity, 2010, 20, 1565-1568.	1.7	12
108	Fabrication and Superconducting Properties of the Bronze-Processed $mbox{Nb}_{3}mbox{Sn} $ Multifilamentary Wire Using Cuâ€“Snâ€“Zn Alloy Matrix. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	12

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109	Stability tests on R&D superconductors for the Large Helical Device. Cryogenics, 1991, 31, 634-639.	1.7	11
110	Sweep-rate dependences of losses in aluminum-stabilized superconducting conductors for the Large Helical Device. Fusion Engineering and Design, 1993, 20, 371-376.	1.9	11
111	Measurement of time constants for superconducting cables with Hall probes. Cryogenics, 1997, 37, 783-788.	1.7	11
112	Stability test results on the aluminum stabilized superconductor for the helical coils of LHD. IEEE Transactions on Applied Superconductivity, 1999, 9, 1113-1116.	1.7	11
113	Transport performance of Bi-2212 current leads prepared by a diffusion process. IEEE Transactions on Applied Superconductivity, 2001, 11, 2555-2558.	1.7	11
114	Development of high temperature superconducting current feeders for a large-scale superconducting experimental fusion system. IEEE Transactions on Applied Superconductivity, 2001, 11, 2611-2614.	1.7	11
115	Excitation properties and cryogenic stability of helical coils for the LHD. IEEE Transactions on Applied Superconductivity, 2001, 11, 1889-1892.	1.7	11
116	Mechanical properties and reinforcement of Bi-2212 tubular bulk superconductor for current lead. IEEE Transactions on Applied Superconductivity, 2002, 12, 1319-1322.	1.7	11
117	AE Measurement of the LHD Helical Coils. IEEE Transactions on Applied Superconductivity, 2005, 15, 1423-1426.	1.7	11
118	Validation of the High Performance Conduction-Cooled Prototype LTS Pulse Coil for UPS-SMES. IEEE Transactions on Applied Superconductivity, 2006, 16, 608-611.	1.7	11
119	Electromagnetic behavior of HTS coils in persistent current operations. Fusion Engineering and Design, 2006, 81, 2463-2466.	1.9	11
120	Development of 1ÂMJ Conduction-Cooled LTS Pulse Coil for UPS-SMES. IEEE Transactions on Applied Superconductivity, 2007, 17, 1973-1976.	1.7	11
121	AC Losses in a Conduction-Cooled LTS Pulse Coil With Stored Energy of 1 MJ for UPS-SMES as Protection From Momentary Voltage Drops. IEEE Transactions on Applied Superconductivity, 2008, 18, 783-786.	1.7	11
122	Development of a Flat-plate Cryogenic Oscillating Heat Pipe for Improving HTS Magnet Cooling. Physics Procedia, 2013, 45, 233-236.	1.2	11
123	Plan for Testing High-Current Superconductors for Fusion Reactors with A 15T Test Facility. Plasma and Fusion Research, 2015, 10, 3405012-3405012.	0.7	11
124	Heat Transfer from an Oxidized Large Copper Surface to Liquid Helium: Dependence on Surface Orientation and Treatment. Advances in Cryogenic Engineering, 1996, , 217-224.	0.3	11
125	A 3 T superconducting magnet for the amy detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 274, 95-112.	1.6	10
126	Characteristics of a dc 75 kA power supply in the superconducting magnet test facilities. Fusion Engineering and Design, 1993, 20, 201-209.	1.9	10

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127	Heat transfer of a large copper plate to liquid helium applicable to large scale superconductors. Cryogenics, 1994, 34, 321-324.	1.7	10
128	Review on the Progress of the LHD Experiment. Fusion Science and Technology, 2004, 46, 1-12.	1.1	10
129	Analysis of Joint-Resistance-Induced, Non-Uniform Current Distribution. IEEE Transactions on Applied Superconductivity, 2005, 15, 1595-1598.	1.7	10
130	Performance of cold compressors in a cooling system of an R&D superconducting coil cooled with subcooled helium. Fusion Engineering and Design, 2006, 81, 2617-2621.	1.9	10
131	Control, data acquisition, data analysis and remote participation in LHD. Fusion Engineering and Design, 2008, 83, 170-175.	1.9	10
132	Results of the Excitation Test of the LHD Helical Coils Cooled by Subcooled Helium. IEEE Transactions on Applied Superconductivity, 2008, 18, 455-458.	1.7	10
133	Overview of LHD Superconducting Magnet System and Its 10-Year Operation. Fusion Science and Technology, 2010, 58, 560-570.	1.1	10
134	Fabrication and tests of EF conductors for JT-60SA. Fusion Engineering and Design, 2011, 86, 1432-1435.	1.9	10
135	Present states and future prospect of fast ignition realization experiment (FIREX) with Gekko and LFEX Lasers at ILE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 653, 84-88.	1.6	10
136	Feasibility of HTS Magnet Option for Fusion Reactors. Plasma and Fusion Research, 2014, 9, 1405013-1405013.	0.7	10
137	Overview of transport and MHD stability study: focusing on the impact of magnetic field topology in the Large Helical Device. Nuclear Fusion, 2015, 55, 104018.	3.5	10
138	Stability Characteristics of the Aluminum Stabilized Superconductor for the LHD Helical Coils. , 1999, , 991-994.		10
139	Losses of superconducting conductors for Large Helical Device. IEEE Transactions on Magnetics, 1991, 27, 2154-2158.	2.1	9
140	Losses of aluminium-stabilized superconducting conductors for Large Helical Device. IEEE Transactions on Magnetics, 1992, 28, 210-213.	2.1	9
141	Development of 100 kA current leads for superconductor critical current measurement. Fusion Engineering and Design, 1993, 20, 217-222.	1.9	9
142	Losses in cable-in-conduit superconductors used for the poloidal coil system of the large helical device. IEEE Transactions on Applied Superconductivity, 1993, 3, 476-479.	1.7	9
143	Development and tests of a flexible superconducting bus-line for the Large Helical Device. IEEE Transactions on Magnetics, 1994, 30, 2090-2093.	2.1	9
144	Construction of a 10 kW class helium cryogenic system for the large helical device. Cryogenics, 1994, 34, 95-98.	1.7	9

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145	Bi-2212 current leads prepared by the diffusion process. IEEE Transactions on Applied Superconductivity, 2000, 10, 1481-1484.	1.7	9
146	Engineering research and development of magnetically levitated high-temperature superconducting coil system for mini-RT project. IEEE Transactions on Applied Superconductivity, 2002, 12, 948-951.	1.7	9
147	Dependence on winding tensions for stability of a superconducting coil. Cryogenics, 2003, 43, 649-658.	1.7	9
148	Consideration of conductor motions in the helical coils of the large Helical device. IEEE Transactions on Applied Superconductivity, 2003, 13, 1484-1487.	1.7	9
149	Excitation test results of the HTS floating coil for the mini-RT project. IEEE Transactions on Applied Superconductivity, 2003, 13, 1504-1507.	1.7	9
150	Influence of intersecting angles of strands on contact resistance in cable-in-conduit conductors. IEEE Transactions on Applied Superconductivity, 2003, 13, 2392-2395.	1.7	9
151	Thermal Contact Conductance Between the Bundle and the Conduit in Cable-in-Conduit Conductors. IEEE Transactions on Applied Superconductivity, 2004, 14, 1477-1480.	1.7	9
152	Critical Currents and AC Losses in ${m MgB}_{2}$ Multifilamentary Tapes With 6 Twisted Filaments. IEEE Transactions on Applied Superconductivity, 2009, 19, 2686-2689.	1.7	9
153	Conceptual Design and Development of an Indirect-cooled Superconducting Helical Coil in the FFHR. Plasma and Fusion Research, 2010, 5, S1035-S1035.	0.7	9
154	Conductor and joint test results of JT-60SA CS and EF coils using the NIFS test facility. Cryogenics, 2016, 73, 25-41.	1.7	9
155	Overall Operating Characteristics of Superconducting Current-Feeder System for the LHD. , 2000, , 1525-1532.		9
156	Design and fabrication of pool cooled helical coil as an R&D program for Large Helical Device. IEEE Transactions on Magnetics, 1991, 27, 2357-2360.	2.1	8
157	Cooldown performance of an inner vertical field coil for the Large Helical Device. IEEE Transactions on Magnetics, 1996, 32, 2252-2255.	2.1	8
158	A new winding method to reduce AC losses in stable LTS pulse coils. IEEE Transactions on Applied Superconductivity, 2003, 13, 2404-2407.	1.7	8
159	Dynamic Simulation of a Helium Liquefier. AIP Conference Proceedings, 2004, , .	0.4	8
160	Operation and Control of Helium Subcooling System of LHD Helical Coils During Change of Rotational Speed of Cold Compressors. IEEE Transactions on Applied Superconductivity, 2010, 20, 2051-2053.	1.7	8
161	Stability and Quench Test for NbTi CIC Conductor of JT-60SA Equilibrium Field Coil. IEEE Transactions on Applied Superconductivity, 2010, 20, 512-516.	1.7	8
162	Superconducting quadrupole magnet with a large rectangular aperture. Nuclear Instruments & Methods in Physics Research, 1983, 206, 57-65.	0.9	7

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163	Fabrication of the R&D forced-flow poloidal coil (TOKI-PF). Fusion Engineering and Design, 1993, 20, 153-159.	1.9	7
164	Design of a toroidal plasma confinement device with a levitated super-conducting internal coil. AIP Conference Proceedings, 1999, , .	0.4	7
165	Design, development and operation of superconducting system for LHD. , 0, , .		7
166	Measurement of Superconductor Motion in R&D Coil for Supercooling of the LHD Helical Coil. IEEE Transactions on Applied Superconductivity, 2004, 14, 1515-1518.	1.7	7
167	Prototype Development of a Conduction-Cooled LTS Pulse Coil for UPS-SMES. IEEE Transactions on Applied Superconductivity, 2005, 15, 1935-1938.	1.7	7
168	Dynamic Simulation of a Large Scale Cryogenic Plant. AIP Conference Proceedings, 2006, , .	0.4	7
169	PERFORMANCE OF UPGRADED COOLING SYSTEM FOR LHD HELICAL COILS. AIP Conference Proceedings, 2008, , .	0.4	7
170	Performance verification tests of JT-60SA CS model coil. Physica C: Superconductivity and Its Applications, 2015, 518, 96-100.	1.2	7
171	LHD Cryogenic-Control System Performance Under Various Operating Conditions. , 2000, , 1339-1346.		7
172	Prototype thin superconducting solenoid for particle astrophysics in space. IEEE Transactions on Magnetics, 1989, 25, 1663-1666.	2.1	6
173	Design of a large superconducting spectrometer magnet. IEEE Transactions on Magnetics, 1989, 25, 1667-1670.	2.1	6
174	Cryogenic compressive deformation properties of superconducting coil packs simulated for helical coils on LHD program. Cryogenics, 1992, 32, 376-379.	1.7	6
175	Rigidity tests of a superconducting coil at 4.2 K simulated for the helical coil on the LHD program. Fusion Engineering and Design, 1993, 20, 211-216.	1.9	6
176	Transverse-field losses in aluminum-stabilized superconducting conductors. IEEE Transactions on Magnetics, 1994, 30, 2491-2494.	2.1	6
177	Fracture toughness of partially welded joints of SUS316 stainless steel at 4 K by large bend-bar tests. IEEE Transactions on Magnetics, 1996, 32, 2941-2944.	2.1	6
178	Effects of the current redistribution within Nb/sub 3/Sn compacted-strand cable on its stability. IEEE Transactions on Applied Superconductivity, 1997, 7, 770-773.	1.7	6
179	Experiments of the HTS Floating Coil System in the Mini-RT Project. IEEE Transactions on Applied Superconductivity, 2004, 14, 1539-1542.	1.7	6
180	Compact stranded superconducting conductors with both low ac loss and high stability. I. Proposal of a new design. Cryogenics, 2004, 44, 617-622.	1.7	6

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