

# Tsutomu Hoshino

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3204169/publications.pdf>

Version: 2024-02-01

95  
papers

2,156  
citations

516710

16  
h-index

233421

45  
g-index

97  
all docs

97  
docs citations

97  
times ranked

1309  
citing authors

#	ARTICLE	IF	CITATIONS
1	Maximum photovoltaic power tracking: an algorithm for rapidly changing atmospheric conditions. IET Generation, Transmission and Distribution, 1995, 142, 59.	1.1	1,348
2	Fabrication and Characteristics of HTS Induction Motor by the Use of Bi-2223/Ag Squirrel-Cage Rotor. IEEE Transactions on Applied Superconductivity, 2006, 16, 1469-1472.	1.7	49
3	Design and performance of compensator for decremental persistent current in HTS magnets using linear type magnetic flux pump. Cryogenics, 2004, 44, 839-844.	1.7	39
4	DC reactor effect on bridge type superconducting fault current limiter during load increasing. IEEE Transactions on Applied Superconductivity, 2001, 11, 1944-1947.	1.7	38
5	Mechanical and superconducting properties of PIT-processed MgB <sub>2</sub> wire after heat treatment. Superconductor Science and Technology, 2003, 16, 1052-1058.	3.5	38
6	Research activities of DC superconducting power transmission line in Chubu University. Journal of Physics: Conference Series, 2008, 97, 012290.	0.4	38
7	Recent Progress of Experiment on DC Superconducting Power Transmission Line in Chubu University. IEEE Transactions on Applied Superconductivity, 2009, 19, 1778-1781.	1.7	36
8	Proposal of saturated DC reactor type superconducting fault current limiter (SFCL). Cryogenics, 2001, 41, 469-474.	1.7	29
9	Solidification of nitrogen refrigerant and its effect on thermal stability of HTSC tape. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1434-1437.	1.2	29
10	Design of 6.6 kV, 100 A saturated DC reactor type superconducting fault current limiter. IEEE Transactions on Applied Superconductivity, 2003, 13, 2012-2015.	1.7	25
11	Optimal design of superconducting generator using genetic algorithm and simulated annealing. IET Electric Power Applications, 2004, 151, 543.	1.4	23
12	Angular dependence of $E_{c0}$ characteristics and dissipative properties in Bi-2223/Ag tape. Superconductor Science and Technology, 2002, 15, 230-235.	3.5	22
13	Preliminary experiments on saturated DC reactor type fault current limiter. IEEE Transactions on Applied Superconductivity, 2002, 12, 872-875.	1.7	22
14	Improvement of dissipative property in HTS coil impregnated with solid nitrogen. Physica C: Superconductivity and Its Applications, 2003, 386, 415-418.	1.2	20
15	Current Pumping Performance of Linear-Type Magnetic Flux Pump With Use of Feedback Control Circuit System. IEEE Transactions on Applied Superconductivity, 2006, 16, 1638-1641.	1.7	19
16	Non-Inductive Variable Reactor Design and Computer Simulation of Rectifier Type Superconducting Fault Current Limiter. IEEE Transactions on Applied Superconductivity, 2005, 15, 2063-2066.	1.7	17
17	Anisotropic distributions of current density and electric field in Bi-2223/Ag coil with consideration of multifilamentary structure. Physica C: Superconductivity and Its Applications, 2005, 419, 129-140.	1.2	16
18	Conductance Peak at Zero-Bias in Ag-SiO-Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8-x</sub> Planar Tunnel Junctions. Journal of the Physical Society of Japan, 1998, 67, 1732-1737.	1.6	14

#	ARTICLE	IF	CITATIONS
19	Fundamental experiments of axial-type BSCCO-bulk superconducting motor model. IEEE Transactions on Applied Superconductivity, 2001, 11, 1964-1967.	1.7	14
20	Performance of axial-type motor with Bi-2223 HTS bulk rotor. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1531-1534.	1.2	14
21	Performance of conduction-cooled HTS tape with the aid of solid nitrogen-liquid neon mixture. Physica C: Superconductivity and Its Applications, 2004, 412-414, 1221-1224.	1.2	13
22	Preliminary study on axial-type BSCCO superconducting motor. Physica C: Superconductivity and Its Applications, 2001, 354, 100-104.	1.2	12
23	Waveform analysis of the bridge type SFCL during load changing and fault time. IEEE Transactions on Applied Superconductivity, 2003, 13, 1992-1995.	1.7	12
24	Design of Bi-2223/Ag Coil Based on Genetic Algorithm and Finite Element Method. IEEE Transactions on Applied Superconductivity, 2005, 15, 1895-1898.	1.7	12
25	Recovery time of superconducting non-inductive reactor type fault current limiter. IEEE Transactions on Magnetics, 1996, 32, 2403-2406.	2.1	11
26	Design and electrical characteristics analysis of 100 HP HTS synchronous motor in 21st century frontier project, Korea. IEEE Transactions on Applied Superconductivity, 2003, 13, 2197-2200.	1.7	11
27	Proposal of DC shield reactor type superconducting fault current limiter. Cryogenics, 2004, 44, 177-182.	1.7	11
28	Characteristics of a Persistent Current Compensator for Superconducting NMR Magnets Using Linear Type Magnetic Flux Pump. IEEE Transactions on Applied Superconductivity, 2005, 15, 1338-1341.	1.7	11
29	New Approximate Solution of Space- and Energy-Dependent Reactor Kinetics. Nuclear Science and Engineering, 1965, 23, 170-182.	1.1	10
30	Structural and superconducting properties of PIT processed sintered MgB <sub>2</sub> /Fe wires. Physica C: Superconductivity and Its Applications, 2004, 412-414, 1184-1188.	1.2	10
31	Anisotropy of critical current and glass-liquid transition flux density in Bi-2223/Ag tape. Superconductor Science and Technology, 2000, 13, 1521-1525.	3.5	9
32	Characteristics of axial-type HTS motor under different temperature conditions. IEEE Transactions on Applied Superconductivity, 2003, 13, 2201-2205.	1.7	9
33	An Approach of Optimal Design of HTS Synchronous Motor Using Genetic Algorithm. IEEE Transactions on Applied Superconductivity, 2004, 14, 896-899.	1.7	9
34	Characteristic analysis of hysteresis-type Bi-2223 bulk motor with the use of equivalent circuit. Physica C: Superconductivity and Its Applications, 2004, 405, 117-126.	1.2	9
35	Proposal of rectifier type superconducting fault current limiter with non-inductive reactor (SFCL). Cryogenics, 2004, 44, 171-176.	1.7	9
36	Characteristics of Exciting Superconducting Magnet by Magnetic Flux Pump.. IEJ Transactions on Industry Applications, 1996, 116, 183-190.	0.2	9

#	ARTICLE	IF	CITATIONS
37	Electrical characteristics of fully superconducting synchronous generator in persistent excitation mode. IEEE Transactions on Magnetics, 1992, 28, 434-437.	2.1	8
38	Preliminary studies on characteristics of series-connected resistive type superconducting fault current limiter for system design. Physica C: Superconductivity and Its Applications, 2001, 354, 120-124.	1.2	8
39	Investigation of magnetic characteristics in HTS bulk materials for motor applications. IEEE Transactions on Applied Superconductivity, 2003, 13, 2255-2258.	1.7	8
40	Analysis of Shielding Layers in HTS Cable Taking Account of Spiral Structure. IEEE Transactions on Applied Superconductivity, 2005, 15, 1747-1750.	1.7	8
41	Electromagnetic Characteristics of Axial-type HTS Motor Utilizing a Bi-2223 Bulk Rotor.. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2002, 37, 726-733.	0.1	7
42	Preliminary study on non-inductive reactor type fault current limiter. Cryogenics, 1994, 34, 753-756.	1.7	6
43	Synchronization of an axial-type Bi-2223 bulk motor operated in liquid nitrogen. Superconductor Science and Technology, 2004, 17, 1319-1323.	3.5	6
44	Performances of a Linear Type Magnetic Flux Pump for Compensating a Little Decrement Persistent Current of HTS Magnets. IEEE Transactions on Applied Superconductivity, 2004, 14, 1723-1726.	1.7	6
45	Angular dependence of current transport characteristics in a mixed state of Bi-2223/Ag multifilamentary tape. IEEE Transactions on Applied Superconductivity, 2000, 10, 1166-1169.	1.7	5
46	Influences of superconducting fault current limiter (SFCL) on superconducting generator in one-machine double-line system. IEEE Transactions on Applied Superconductivity, 2003, 13, 2206-2209.	1.7	5
47	Calculation of Space-Dependent Reactor Transfer Function by Few-Pole Expansion Method. Journal of Nuclear Science and Technology, 1968, 5, 229-235.	1.3	4
48	An Adaptive Control Concept of Reactor Power Distribution. Journal of Nuclear Science and Technology, 1970, 7, 321-322.	1.3	4
49	Fundamental design and electrical characteristics of superconducting commutatorless motor. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 1995, 115, 123-140.	0.4	4
50	A 30 kVA superconducting generator development and basic tests. IEEE Transactions on Applied Superconductivity, 2000, 10, 947-950.	1.7	4
51	ANNEALING EFFECTS ON STRUCTURAL AND SUPERCONDUCTING PROPERTIES OF MgB <sub>2</sub> /Fe WIRES. Modern Physics Letters B, 2004, 18, 791-802.	1.9	4
52	Characteristic study and three dimensional magnetic field analysis of the superconducting synchronous machine. Physica C: Superconductivity and Its Applications, 2004, 416, 108-114.	1.2	4
53	Experiment Using Variable Reactor of Rectifier Type Superconducting Fault Current Limiter With a Short-Circuited Trigger Coil. IEEE Transactions on Applied Superconductivity, 2004, 14, 626-629.	1.7	4
54	Fabrication and excitation testing of a fully superconducting brushless generator with magnetic flux pump. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 1997, 118, 35-45.	0.4	3

#	ARTICLE	IF	CITATIONS
55	Influence of magnetic field and magnetic anisotropy on the quench characteristics of Bi-2223/Ag multifilamentary tapes. IEEE Transactions on Applied Superconductivity, 2001, 11, 3341-3344.	1.7	3
56	Analysis of shielding property in Bi-2223/Ag multifilamentary tapes with multi-layer arrangement. Journal of Materials Processing Technology, 2005, 161, 22-27.	6.3	3
57	Calculation of Space-Dependent Reactor Transfer Function by Few-Pole Expansion Method. Journal of Nuclear Science and Technology, 1968, 5, 229-235.	1.3	3
58	The potential for superconducting electric motors.. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 1999, 10, 10-13.	0.1	3
59	Fundamental Design and Electrical Characteristics of Superconducting Commutatorless Motor.. IEEJ Transactions on Industry Applications, 1994, 114, 197-206.	0.2	3
60	An application of the observer to the attractive type magnetic levitation. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 1979, 99, 107-115.	0.4	2
61	Electrical characteristics of a fully superconducting brushless generator equipped with a magnetic flux pump. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 1997, 120, 64-72.	0.4	2
62	Electromagnetic characteristics of Bi-2223 disk in a rotating magnetic field. Physica C: Superconductivity and Its Applications, 2003, 392-396, 664-668.	1.2	2
63	Preliminary Test Results of Radial-Type Sintered Sm-123 Bulk Motor. IEEE Transactions on Applied Superconductivity, 2005, 15, 2198-2201.	1.7	2
64	Heat Transfer Property of Bi-2223/Ag Tape Impregnated with Solid Nitrogen near Triple Point.. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2002, 37, 465-471.	0.1	2
65	Measurement of Migration Area and Multiplication Factor of UO <sub>2</sub> -H <sub>2</sub> O Lattice. Journal of Nuclear Science and Technology, 1965, 2, 257-260.	1.3	1
66	Calculation of Thermalization of Pulsed Neutrons by Few-Pole Expansion Method. Journal of Nuclear Science and Technology, 1969, 6, 514-521.	1.3	1
67	Measurements of Neutron Thermalization Parameters of Light Water with Non-1/v Absorber Using Pulsed Neutron Technique. Journal of Nuclear Science and Technology, 1971, 8, 423-430.	1.3	1
68	Improvement of Control Performances for Low-Dimensional Number of Fuzzy Labelings. (Using Fuzzy) Tj ETQq0 0 0 rgBT /Overlock 10 T Mechanical Engineers, Part C, 1994, 60, 1315-1322.	0.2	1
69	Turn off trigger energy characteristics of the superconducting power electronics device (S-PED)-in case of type d. IEEE Transactions on Applied Superconductivity, 1999, 9, 1221-1224.	1.7	1
70	Recent technical trends of superconducting magnets in Japan. I. Magnet data base and recent progress in magnet winding current density. IEEE Transactions on Applied Superconductivity, 1999, 9, 547-552.	1.7	1
71	Conductor pitch effect on an eddy current loss of the superconducting power cable using the disassembled cable "N" data. IEEE Transactions on Applied Superconductivity, 1999, 9, 1277-1280.	1.7	1
72	Output power limit of 200 MW class brushless superconducting generator excited with magnetic flux-pump. IEEE Transactions on Applied Superconductivity, 2001, 11, 2335-2338.	1.7	1

#	ARTICLE	IF	CITATIONS
73	Analysis of FCL effect caused by superconducting DC cables for railway systems. IOP Conference Series: Materials Science and Engineering, 2017, 171, 012122.	0.6	1
74	An Application of the Observer to the Attractive type Magnetic Levitation. IEJ Transactions on Power and Energy, 1979, 99, 549-556.	0.2	1
75	Transport Characteristics in YBCO Thin Films under Applying DC and AC Currents. , 1999, , 637-640.		1
76	Effects of exciting frequency on the characteristics of attractive type magnetic levitation. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 1979, 99, 66-73.	0.4	0
77	1 to 3 GVA class superconducting power transmission cables with Nb <sub>3</sub> Sn or oxide superconductor. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 1988, 108, 75-85.	0.4	0
78	Determination of the Metallic Elements in High Tc Superconductors M-X-Cu-O (M = Ba,Sr,X = Y,La) System by Isotachopheresis Method and X-ray Fluorescence Method. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1990, 184, 297-301.	0.3	0
79	MHz band impedance analysis of oxide superconductors (YBCO). IEEE Transactions on Magnetics, 1992, 28, 763-766.	2.1	0
80	Grade Discrimination of Dried Seaweed by Fuzzy Image Measured Data and Multivariate Analysis. Journal of Japan Society for Fuzzy Theory and Systems, 1994, 6, 944-956.	0.0	0
81	Fuzzy Hybrid Control Method Applying High-Speed Inference Method.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1995, 61, 626-632.	0.2	0
82	Current status of superconducting synchronous motor in Saga University. IEEE Transactions on Magnetics, 1996, 32, 2373-2376.	2.1	0
83	Recent technical trends of superconducting magnets in Japan. II. Stability and quench characteristics. IEEE Transactions on Applied Superconductivity, 1999, 9, 600-603.	1.7	0
84	Measured-loss analysis of superconducting power transmission cable. IEEE Transactions on Applied Superconductivity, 2000, 10, 1223-1226.	1.7	0
85	Corrections to "Characteristics of axial-type hts motor under different temperature conditions". IEEE Transactions on Applied Superconductivity, 2003, 13, 3821-3821.	1.7	0
86	Study on the 1/f <sup>1/2</sup> Fluctuation of Botanic Potential. AIP Conference Proceedings, 2007, , .	0.4	0
87	Construction of Safe and Environmentally Friendly Traffic Society National Traffic Safety and Environment Laboratory. Journal of the Institute of Electrical Engineers of Japan, 2006, 126, 65-68.	0.0	0
88	Printing Process of Newspaper. Journal of the Institute of Electrical Engineers of Japan, 2008, 128, 147-150.	0.0	0
89	Levitating Force Working to Metal Specimen in Electromagnetic Levitation System using a Cusp Coil. IEJ Transactions on Power and Energy, 1981, 101, 229-236.	0.2	0
90	Analysis for Electromagnetic Levitation of Cusp Coil. IEJ Transactions on Power and Energy, 1982, 102, 219-226.	0.2	0

#	ARTICLE	IF	CITATIONS
91	1 to 3 GVA class superconducting power transmission cables with Nb <sub>3</sub> Sn or oxide superconductor.. IEEJ Transactions on Power and Energy, 1988, 108, 431-438.	0.2	0
92	Maximum Photovoltaic Power Flow to a Separately Excited DC Motor.. IEEJ Transactions on Industry Applications, 1995, 115, 1221-1228.	0.2	0
93	Charging a SMES Coil using Photovoltaic Energy.. IEEJ Transactions on Industry Applications, 1995, 115, 1424-1425.	0.2	0
94	Fabrication and Excitation Test of a Fully Superconducting Brushless Generator with Magnetic Flux pump.. IEEJ Transactions on Industry Applications, 1996, 116, 457-464.	0.2	0
95	Electrical Characteristics of Fully Superconducting Brushless Generator with Magnetic Flux Pump.. IEEJ Transactions on Industry Applications, 1996, 116, 1126-1131.	0.2	0