

Mochimitsu Komori

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1779734/publications.pdf>

Version: 2024-02-01

70
papers

462
citations

758635

12
h-index

839053

18
g-index

70
all docs

70
docs citations

70
times ranked

209
citing authors

#	ARTICLE	IF	CITATIONS
1	New Concept for Flywheel Energy Storage System Using SMB and PMB. IEEE Transactions on Applied Superconductivity, 2011, 21, 1485-1488.	1.1	70
2	Flywheel Energy Storage System Using SMB and PMB. IEEE Transactions on Applied Superconductivity, 2007, 17, 2146-2149.	1.1	35
3	Improvement of Energy Storage Flywheel System With SMB and PMB and Its Performances. IEEE Transactions on Applied Superconductivity, 2009, 19, 2091-2094.	1.1	24
4	A hybrid-type superconducting magnetic bearing system with nonlinear control. IEEE Transactions on Applied Superconductivity, 1998, 8, 79-83.	1.1	19
5	A Magnetically Driven Linear Microactuator With New Driving Method. IEEE/ASME Transactions on Mechatronics, 2005, 10, 335-338.	3.7	18
6	Static levitation in a high- T_c superconductor tile on magnet arrangements. Journal of Applied Physics, 1991, 69, 7306-7309.	1.1	15
7	A new type of superconducting journal bearing using high T_c superconductors. Cryogenics, 1992, 32, 628-633.	0.9	15
8	Dynamic characteristics of a high- T_c superconducting bearing with a set of alternating-polarity magnets. Journal of Applied Physics, 1995, 77, 899-904.	1.1	15
9	A levitated motor with superconducting magnetic bearings assisted by self-sensing AMBs. IEEE Transactions on Applied Superconductivity, 2003, 13, 2189-2192.	1.1	14
10	Real-time image processing system by using FPGA for service robots. , 2012, , .		14
11	Evaluations of a hybrid-type superconducting magnetic bearing system. IEEE Transactions on Applied Superconductivity, 1996, 6, 178-182.	1.1	13
12	Improving the Dynamics of Two Types of Flywheel Energy Storage Systems With SMBs. IEEE Transactions on Applied Superconductivity, 2005, 15, 2261-2264.	1.1	13
13	Basic Study of a Magnetically Levitated Conveyor Using Superconducting Magnetic Levitation. IEEE Transactions on Applied Superconductivity, 2005, 15, 2238-2241.	1.1	12
14	Improvement and evaluation of bearing stiffness in high T_c superconducting magnetic bearing. IEEE Transactions on Applied Superconductivity, 2001, 11, 1677-1680.	1.1	11
15	Basic Study on Superconducting Magnetic Bearing (SMB) With Superconducting Coil. IEEE Transactions on Applied Superconductivity, 2012, 22, 5201704-5201704.	1.1	11
16	Development of a superconductive levitational mechanism and its application to a superconductive radial bearing.. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 1990, 25, 411-413.	0.1	10
17	A prototype of flywheel energy storage system suppressed by hybrid magnetic bearings with H/sup α / controller. IEEE Transactions on Applied Superconductivity, 2001, 11, 1733-1736.	1.1	9
18	Improving the Dynamics of a Flywheel Energy Storage System With Superconducting Magnetic Bearings. IEEE Transactions on Applied Superconductivity, 2004, 14, 1655-1658.	1.1	9

#	ARTICLE	IF	CITATIONS
19	Application of One-Axis-Controlled Magnetic Bearing With a Hollow Shaft to Noncontact Rotation Drive. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	9
20	Proposal of New Superconducting Magnetic Bearing Using High T_c Superconducting Bulk and Coil. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	9
21	Development of a Liquid Nitrogen Pump Using Superconducting Bulk Motor. IEEE Transactions on Applied Superconductivity, 2004, 14, 1659-1662.	1.1	8
22	Drag pressures of a set of alternating polarity magnets over a superconductor tile. Journal of Applied Physics, 1991, 70, 2226-2229.	1.1	7
23	A prototype magnetically levitated stepping motor using high T_c bulk superconductors. IEEE Transactions on Applied Superconductivity, 2000, 10, 1626-1630.	1.1	7
24	A new method for improving the dynamics of superconducting magnetic bearings. IEEE Transactions on Applied Superconductivity, 2001, 11, 4065-4070.	1.1	7
25	Improvement of dynamics for a superconducting magnetic bearing (SMB) system. IEEE Transactions on Applied Superconductivity, 1998, 8, 158-163.	1.1	6
26	Basic study on magnetic levitation system using superconducting coil. Mechanical Engineering Journal, 2015, 2, 14-00535-14-00535.	0.2	6
27	Transitional behaviour between biphasic lubrication and soft elastohydrodynamic lubrication of poly(vinyl alcohol) hydrogel using microelectromechanical system pressure sensor. Biosurface and Biotribology, 2018, 4, 24-33.	0.6	6
28	A New type of superconducting bearing system using high T_c superconductors and the dynamics. Applied Superconductivity, 1994, 2, 499-509.	0.5	5
29	A Prototype Magnetically Levitated Superconducting Conveyor. IEEE Transactions on Applied Superconductivity, 2007, 17, 2170-2173.	1.1	5
30	Basic Study on Magnetically Levitated Conveyor System Using Field-Cooling Magnetization and Pulse-Field Magnetization. IEEE Transactions on Applied Superconductivity, 2011, 21, 1507-1510.	1.1	5
31	Visual navigation system based on evolutionary computation on FPGA for patrol service robot. , 2012, , .		5
32	Dynamic Characteristics of Magnetically Levitated Conveyor Using High T_c SMB. IEEE Transactions on Applied Superconductivity, 2013, 23, 3601304-3601304.	1.1	5
33	Improvement of Magnetically Levitated Superconducting Conveyor Using PMB. IEEE Transactions on Applied Superconductivity, 2009, 19, 2107-2110.	1.1	4
34	An estimation of mechanical properties of articular cartilage for biphasic finite element analyses. Journal of Biomechanical Science and Engineering, 2015, 10, 15-00228-15-00228.	0.1	4
35	Trial of Superconducting Magnetic Bearings Applied to High-Speed Turbine Rotor. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	4
36	Improvement of a magnetically levitated stepping motor using high T_c bulk superconductor. IEEE Transactions on Applied Superconductivity, 2001, 11, 1972-1975.	1.1	3

#	ARTICLE	IF	CITATIONS
37	Study on Magnetically Levitated Conveying System Using Hybrid-Magnetized High T_c Superconductors. IEEE Transactions on Applied Superconductivity, 2008, 18, 820-823.	1.1	3
38	Visual Navigation System with Real-Time Image Processing for Patrol Service Robot. , 2011, , .		3
39	3D map construction based on structure from motion using stereo vision. , 2015, , .		3
40	FPGA-based stereo vision system using census transform for autonomous mobile robot. , 2015, , .		3
41	Maximum Limit of Superconducting Persistent Current for Superconducting Magnetic Suspension System. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	3
42	Estimation Method of the Positions of Reinforcing Steel Bars by using Pulsed-Magnetization. Journal of International Council on Electrical Engineering, 2014, 4, 315-319.	0.4	2
43	One-Axis Controlled Superconducting Magnetic Levitation System Using Persistent Current. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	2
44	Biomimetic artificial cartilage: fibre reinforcement of PVA hydrogel to promote biphasic lubrication mechanism. Biosurface and Biotribology, 2019, 5, 13-19.	0.6	2
45	Dynamic Characteristics in the Horizontal Direction for New Type SMB Using SC Bulk and SC Coil. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.1	2
46	A new driving method for superconducting levitated stepping motor. IEEE Transactions on Applied Superconductivity, 2003, 13, 2243-2246.	1.1	1
47	Energy Storage Flywheel System with SMB and PMB and Its Performances. Journal of System Design and Dynamics, 2009, 3, 651-658.	0.3	1
48	Trial Application of Pulse-Field Magnetization to Magnetically Levitated Conveyor System. Advances in Condensed Matter Physics, 2012, 2012, 1-8.	0.4	1
49	Scene recognition based on gradient feature for autonomous mobile robot and its FPGA implementation. , 2015, , .		1
50	New Application Method of Static-Field Magnetization to Magnetically Levitated Mover System With High T_c Superconductors. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	1
51	Basic Study On Four Types of Superconducting Magnetic Bearings (SMBs) Using High T_c Superconductor Bulks and Superconducting Coils. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-7.	1.1	1
52	Development of musculoskeletal walking simulator for analysis of human walking and rehabilitation. Proceedings of International Conference on Artificial Life and Robotics, 2022, 27, 437-441.	0.1	1
53	A prototype of a levitation-type PM motor with a millimetre-sized rotor. , 1999, , .		0
54	Newly developed millimeter-sized superconducting linear actuator with superconducting slider. IEEE Transactions on Applied Superconductivity, 1999, 9, 4619-4623.	1.1	0

#	ARTICLE	IF	CITATIONS
55	Superconducting Bearings Assisted by Self-sensing AMBs in Liquid Nitrogen. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2003, 46, 397-402.	0.3	0
56	B08 Dynamic characteristics of flywheel energy storage system using SMB and PMB including damper. The Proceedings of the Symposium on the Motion and Vibration Control, 2013, 2013.13, _B08-1_-_B08-4_.	0.0	0
57	Local binary feature based on census transform for mobile robot. , 2014, , .		0
58	Application of one axis controlled magnetic bearing with a hollow shaft to non-contact rotation drive. , 2015, , .		0
59	High performances of magnetic levitation system by using persistent current in superconducting coil. , 2015, , .		0
60	Basic study on linear actuator using superconducting coil. , 2017, , .		0
61	Proposal of Magnetically Levitated Mover Using High T _c SC Coils. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-4.	1.1	0
62	Cryogenic motor with two radial AMBs in liquid nitrogen. AIP Advances, 2021, 11, 015021.	0.6	0
63	SUPERCONDUCTING LEVITATED STEPPING MOTOR WITH NEW DRIVING METHODS. The Proceedings of the International Conference on Motion and Vibration Control, 2002, 6.2, 812-817.	0.0	0
64	2A25 A Proposal of New Flywheel Energy Storage System Using a Superconducting Magnetic Bearing. The Proceedings of the Symposium on the Motion and Vibration Control, 2010, 2010, _2A25-1_-_2A25-8_.	0.0	0
65	B10 Characteristics of magnetically levitated superconducting conveyer using High T _c superconductors. The Proceedings of the Symposium on the Motion and Vibration Control, 2013, 2013.13, _B10-1_-_B10-4_.	0.0	0
66	1D24 Basic Study on Magnetic Levitation System by Using Superconducting Coil(The 12th International) Tj ETQq0 0 0 rgBT /Overlock 1 Vibration Control, 2014, 2014.12, _1D24-1_-_1D24-8_.	0.0	0
67	Trial of 50mm Gap Levitation System Using the Persistent Current.. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, G1000504.	0.0	0
68	1G24 A study on improvement of functionality of fiber reinforced PVA hydrogel. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _1G24-1_-_1G24-5_.	0.0	0
69	Prototype of Cryogenic Pump Working in Liquid Nitrogen. The Proceedings of the International Conference on Motion and Vibration Control, 2020, 2020.15, 10089.	0.0	0
70	How to increase the diamagnetic magnetic force of HOPG. The Proceedings of the International Conference on Motion and Vibration Control, 2020, 2020.15, 10015.	0.0	0