

# Mochimitsu Komori

## List of Publications by Year in descending order

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70  
papers

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citations

758635

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839053

18  
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all docs

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docs citations

70  
times ranked

209  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Cryogenic motor with two radial AMBs in liquid nitrogen. AIP Advances, 2021, 11, 015021.	0.6	0
5	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
6	Proposal of Magnetically Levitated Mover Using High $T_c$ SC Coils. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-4.	1.1	0
7	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
8	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
9	One-Axis Controlled Superconducting Magnetic Levitation System Using Persistent Current. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	2
10	Biomimetic artificial cartilage: fibre reinforcement of PVA hydrogel to promote biphasic lubrication mechanism. Biosurface and Biotribology, 2019, 5, 13-19.	0.6	2
11	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
12	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
13	Trial of Superconducting Magnetic Bearings Applied to High-Speed Turbine Rotor. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	4
14	Maximum Limit of Superconducting Persistent Current for Superconducting Magnetic Suspension System. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	3
15	Basic study on linear actuator using superconducting coil. , 2017, , .		0
16	Trial of 50mm Gap Levitation System Using the Persistent Current.. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, G1000504.	0.0	0
17	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
18	Basic study on magnetic levitation system using superconducting coil. Mechanical Engineering Journal, 2015, 2, 14-00535-14-00535.	0.2	6

#	ARTICLE	IF	CITATIONS
19	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
20	3D map construction based on structure from motion using stereo vision. , 2015, , .		3
21	Scene recognition based on gradient feature for autonomous mobile robot and its FPGA implementation. , 2015, , .		1
22	Application of one axis controlled magnetic bearing with a hollow shaft to non-contact rotation drive. , 2015, , .		0
23	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
24	High performances of magnetic levitation system by using persistent current in superconducting coil. , 2015, , .		0
25	FPGA-based stereo vision system using census transform for autonomous mobile robot. , 2015, , .		3
26	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
27	Local binary feature based on census transform for mobile robot. , 2014, , .		0
28	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
29	Dynamic Characteristics of Magnetically Levitated Conveyor Using High $T_c$ SMB. IEEE Transactions on Applied Superconductivity, 2013, 23, 3601304-3601304.	1.1	5
30	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
31	B10 Characteristics of magnetically levitated superconducting conveyor 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
32	Visual navigation system based on evolutionary computation on FPGA for patrol service robot. , 2012, , .		5
33	Real-time image processing system by using FPGA for service robots. , 2012, , .		14
34	Basic Study on Superconducting Magnetic Bearing (SMB) With Superconducting Coil. IEEE Transactions on Applied Superconductivity, 2012, 22, 5201704-5201704.	1.1	11
35	Trial Application of Pulse-Field Magnetization to Magnetically Levitated Conveyor System. Advances in Condensed Matter Physics, 2012, 2012, 1-8.	0.4	1
36	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

#	ARTICLE	IF	CITATIONS
37	Visual Navigation System with Real-Time Image Processing for Patrol Service Robot. , 2011, , .		3
38	New Concept for Flywheel Energy Storage System Using SMB and PMB. IEEE Transactions on Applied Superconductivity, 2011, 21, 1485-1488.	1.1	70
39	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
40	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
41	Improvement of Magnetically Levitated Superconducting Conveyor Using PMB. IEEE Transactions on Applied Superconductivity, 2009, 19, 2107-2110.	1.1	4
42	Energy Storage Flywheel System with SMB and PMB and Its Performances. Journal of System Design and Dynamics, 2009, 3, 651-658.	0.3	1
43	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
44	A Prototype Magnetically Levitated Superconducting Conveyor. IEEE Transactions on Applied Superconductivity, 2007, 17, 2170-2173.	1.1	5
45	Flywheel Energy Storage System Using SMB and PMB. IEEE Transactions on Applied Superconductivity, 2007, 17, 2146-2149.	1.1	35
46	Basic Study of a Magnetically Levitated Conveyor Using Superconducting Magnetic Levitation. IEEE Transactions on Applied Superconductivity, 2005, 15, 2238-2241.	1.1	12
47	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
48	A Magnetically Driven Linear Microactuator With New Driving Method. IEEE/ASME Transactions on Mechatronics, 2005, 10, 335-338.	3.7	18
49	Development of a Liquid Nitrogen Pump Using Superconducting Bulk Motor. IEEE Transactions on Applied Superconductivity, 2004, 14, 1659-1662.	1.1	8
50	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
51	A new driving method for superconducting levitated stepping motor. IEEE Transactions on Applied Superconductivity, 2003, 13, 2243-2246.	1.1	1
52	A levitated motor with superconducting magnetic bearings assisted by self-sensing AMBs. IEEE Transactions on Applied Superconductivity, 2003, 13, 2189-2192.	1.1	14
53	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
54	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

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55	A new method for improving the dynamics of superconducting magnetic bearings. IEEE Transactions on Applied Superconductivity, 2001, 11, 4065-4070.	1.1	7
56	Improvement and evaluation of bearing stiffness in high T/sub c/ superconducting magnetic bearing. IEEE Transactions on Applied Superconductivity, 2001, 11, 1677-1680.	1.1	11
57	Improvement of a magnetically levitated stepping motor using high T/sub c/ bulk superconductor. IEEE Transactions on Applied Superconductivity, 2001, 11, 1972-1975.	1.1	3
58	A prototype of flywheel energy storage system suppressed by hybrid magnetic bearings with H/sup âž/ controller. IEEE Transactions on Applied Superconductivity, 2001, 11, 1733-1736.	1.1	9
59	A prototype magnetically levitated stepping motor using high T/sub c/ bulk superconductors. IEEE Transactions on Applied Superconductivity, 2000, 10, 1626-1630.	1.1	7
60	A prototype of a levitation-type PM motor with a millimetre-sized rotor. , 1999, , .		0
61	Newly developed millimeter-sized superconducting linear actuator with superconducting slider. IEEE Transactions on Applied Superconductivity, 1999, 9, 4619-4623.	1.1	0
62	Improvement of dynamics for a superconducting magnetic bearing (SMB) system. IEEE Transactions on Applied Superconductivity, 1998, 8, 158-163.	1.1	6
63	A hybrid-type superconducting magnetic bearing system with nonlinear control. IEEE Transactions on Applied Superconductivity, 1998, 8, 79-83.	1.1	19
64	Evaluations of a hybrid-type superconducting magnetic bearing system. IEEE Transactions on Applied Superconductivity, 1996, 6, 178-182.	1.1	13
65	Dynamic characteristics of a highâ€c superconducting bearing with a set of alternatingâ€polarity magnets. Journal of Applied Physics, 1995, 77, 899-904.	1.1	15
66	A New type of superconducting bearing system using high Tc superconductors and the dynamics. Applied Superconductivity, 1994, 2, 499-509.	0.5	5
67	A new type of superconducting journal bearing using high Tc superconductors. Cryogenics, 1992, 32, 628-633.	0.9	15
68	Static levitation in a highâ€c superconductor tile on magnet arrangements. Journal of Applied Physics, 1991, 69, 7306-7309.	1.1	15
69	Drag pressures of a set of alternatingâ€polarity magnets over a superconductor tile. Journal of Applied Physics, 1991, 70, 2226-2229.	1.1	7
70	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