

Katsuhiko Hirata

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96

papers

602

citations

14

h-index

21

g-index

112

ext. papers

744

ext. citations

1.1

avg, IF

3.95

L-index

#	Paper	IF	Citations
96	Proposal of a Transverse Type Z-Actuator. <i>Nihon AEM Gakkaishi</i> , 2021 , 29, 558-563	0.2	
95	Design and Analysis of a Six-Degree-of-Freedom Oscillatory Actuator Using Lorentz Force. <i>Nihon AEM Gakkaishi</i> , 2021 , 29, 538-543	0.2	
94	Analysis Accuracy in Positioning Calculation for Three-Degree-of-Freedom Spherical Actuator. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-4	2	3
93	Sensorless attitude estimation of three-degree-of-freedom actuator for image stabilization. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2021 , 66, 249-263	0.4	
92	A Novel Alternating Magnetic Field Generator Based on the Principle of Lattice Vibration in Crystals. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	2
91	Proposal of a New Coil Arrangement for a Four-Phase Switched Reluctance Motor. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-6	2	2
90	Feasibility evaluation of new electric motors driven by intrinsic localized mode. <i>Nonlinear Theory and Its Applications IEICE</i> , 2021 , 12, 475-488	0.6	1
89	Numerical Analysis of Magnetic Soliton Excited on Nonlinear LC Ladder Circuit Array Using Permanent Magnet Flux Biased Inductor. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	1
88	Triaxial Active Control Magnetic Bearing With Asymmetric Structure. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 4675-4685	4.3	0
87	Motion Control of a Two-Degree-of-Freedom Linear Resonant Actuator without a Mechanical Spring. <i>Sensors</i> , 2020 , 20,	3.8	5
86	Design and Analysis of a Three-Degree-of-Freedom Linear Oscillatory Actuator. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-4	2	4
85	Linear Vernier actuator with two movers. <i>Transportation Systems and Technology</i> , 2020 , 6, 63-79	0.3	
84	Edge effect of multi-degree-of-freedom oscillatory actuator driven by vector control. <i>Open Physics</i> , 2020 , 18, 346-351	1.3	
83	Analysis of non-contact electromagnetic impact device connected to boosting circuit. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2020 , 64, 1145-1154	0.4	
82	Numerical analysis on injection of MR fluid into clutch mechanism. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , 2019 , 2019, 1P2-B15	0	
81	Proposal of 3-Degree-of-Freedom Spherical Actuator with Auxiliary Poles 2019 ,		1
80	Motion Control of Two Degree of Freedom Linear Resonant Actuator without Mechanical Spring 2019 ,		1

79	Vibration Investigation of a 24/20 Switched Reluctance Motor Focusing on the Driving Methods 2019,		1
78	Development of Triaxial Active Control Magnetic Bearing with Asymmetric Structure 2019,		4
77	Dynamic characteristics of triaxial active control magnetic bearing with asymmetric structure. <i>Open Physics</i> , 2018 , 16, 9-13	1.3	2
76	Control of three-degree-of-freedom resonant actuator driven by novel vector control. <i>Transportation Systems and Technology</i> , 2018 , 4, 90-101	0.3	5
75	Characteristic Evaluation of Linear Resonant Actuator Utilizing Electrical Resonance. <i>IEEJ Journal of Industry Applications</i> , 2018 , 7, 175-180	0.7	2
74	Characteristics Verification of a Novel Motor with Two Controllable Rotors. 2018,		2
73	Dynamic characteristics of three-degree-of-freedom resonant actuator. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2018 , 37, 1566-1574	0.7	4
72	Current superimposition variable flux reluctance motor with 8 salient poles. <i>Open Physics</i> , 2017 , 15, 857-861		1
71	Numerical Analysis of Formation of Ferromagnetic Powders under a Magnetic Field. <i>IEEJ Transactions on Power and Energy</i> , 2017 , 137, 173-178	0.2	
70	Coupled Analysis by Viscoelastic Body with Rigid Body for Design of MRE Soft Actuator. <i>IEEJ Transactions on Industry Applications</i> , 2017 , 137, 647-653	0.2	
69	Development of Control Method for Outer-Rotor Spherical Actuator. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 2016 , 194, 54-63	0.4	3
68	Optimization of Asymmetric Acceleration Waveform for Haptic Device Driven by Two-Degree-of-Freedom Oscillatory Actuator. <i>IEEJ Journal of Industry Applications</i> , 2016 , 5, 215-220	0.7	3
67	Experimental Verification of Linear Oscillatory Actuator Using DC Motor. <i>IEEJ Transactions on Industry Applications</i> , 2016 , 136, 285-290	0.2	
66	Evaluation Method for Multi-Degree-of-Freedom Spherical Electromagnetic Synchronous Actuators under Constant Power. <i>IEEJ Transactions on Industry Applications</i> , 2016 , 136, 907-912	0.2	1
65	Study on deformation analysis of high-viscosity electromagnetic fluid employing combined method. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2016 , 52, 1519-1524	0.4	
64	A New Linear Oscillatory Actuator with Variable Characteristics Using Two Sets of Coils. <i>Sensors</i> , 2016 , 16,	3.8	8
63	Optimization of stator pole arrangement for 3-DOF spherical actuator using genetic algorithm 2015,		5
62	Dynamic Characteristic Analysis and Experimental Verification of 2-DoF Resonant Actuator under Feedback Control. <i>Nihon AEM Gakkaishi</i> , 2015 , 23, 521-526	0.2	4

61	Simplified Position Estimation Using Back-EMF for Two-DoF Linear Resonant Actuator. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 961-964	2	4
60	Embedded PM magnetic-gear generator. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2014 , 45, 709-715	0.4	4
59	Characteristics verification of an independently controllable electromagnetic spherical motor. <i>Sensors</i> , 2014 , 14, 10072-80	3.8	5
58	Experimental Verification of Feedback Control of a 2-DOF Spherical Actuator. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	18
57	Development of a Haptic Device Using a 2-DOF Linear Oscillatory Actuator. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	7
56	Reduction of Vibro-acoustic Noise for Optical Image Stabilizer VCM Using Electromagnetic-Mechanical-Acoustic Coupled Analysis Method. <i>IEEJ Transactions on Industry Applications</i> , 2014 , 134, 712-719	0.2	
55	Linear oscillatory actuator using new magnetic movement converter 2013 ,		3
54	Study on Starting Performance of Ni-Mn-Ga Magnetic Shape Memory Alloy Linear Actuator. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 2225-2228	2	9
53	Analysis of 2-Degree of Freedom Outer Rotor Spherical Actuator Employing 3-D Finite Element Method. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 2233-2236	2	17
52	Design, Optimization, and Realization of Salient-Pole Electromagnetic Gear for Variable-Transmission Applications. <i>IEEJ Journal of Industry Applications</i> , 2013 , 2, 87-97	0.7	2
51	Electromagnetic Vibration Analysis and Measurement of a Magnetic Gear. <i>IEEJ Journal of Industry Applications</i> , 2013 , 2, 261-268	0.7	1
50	Transmission Torque Analysis of a Novel Magnetic Planetary Gear Employing 3-D FEM. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 1043-1046	2	24
49	Novel Soft Actuator Using Magnetorheological Elastomer. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 1649-1652	7	
48	Cogging Torque Analysis of Magnetic Gear. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2189-2197	9	57
47	Dynamic characteristics analysis of circuit breaker with oil dashpot employing improved multi-mesh modification method 2012 ,		1
46	Proposal of an axial-type magnetic-gear motor 2012 ,		11
45	Continuously Variable Speed Vernier Magnetic Gear. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3104-3107	7	14
44	Torque ripple analysis of a magnetic-gear motor 2012 ,		7

43	PID feedback control method for Linear Resonant Actuator using an estimated external load from the back-EMF as a target voltage 2012,		4
42	3-D Finite Element Analysis of Linear Resonant Actuator under PID Control Using Back EMF. <i>IEEJ Journal of Industry Applications</i> , 2012 , 1, 111-116	0.7	3
41	Hopping of a monopedal robot with a biarticular muscle driven by electromagnetic linear actuators 2012,		11
40	Dynamic Characteristics of Novel Two-DOF Resonant Actuator by Vector Control. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 2985-2988	2	6
39	Performance Evaluation of Linear Oscillatory Actuator for Active Control Engine Mount. <i>IEEJ Transactions on Industry Applications</i> , 2012 , 132, 1091-1096	0.2	1
38	Magnetic Fluid Oscillation Analysis using Finite Element Method. <i>IEEJ Transactions on Industry Applications</i> , 2012 , 132, 78-83	0.2	
37	Two-DOF Resonant Actuator Using Vector Control. <i>IEEJ Journal of Industry Applications</i> , 2012 , 1, 117-122	0.7	1
36	Novel Proposals for the Realization of Variable-Transmission Magnetic Gear. <i>IEEJ Transactions on Industry Applications</i> , 2011 , 131, 1263-1268	0.2	2
35	Dynamic Analysis Method for Electromagnetic Artificial Muscle Actuator under PID Control. <i>IEEJ Transactions on Industry Applications</i> , 2011 , 131, 166-170	0.2	8
34	Study on Transmission Torque Characteristics of a Surface-Permanent-Magnet-Type Magnetic Gear. <i>IEEJ Transactions on Industry Applications</i> , 2011 , 131, 396-402	0.2	5
33	Feedback Control of Electromagnetic Actuator with Three Degrees of Freedom Using Optical Image Sensors. <i>IEEJ Transactions on Industry Applications</i> , 2011 , 131, 754-759	0.2	
32	Dynamic Analysis of 3 DOF Actuator Employing 3 D Finite Element Method. <i>IEEJ Transactions on Industry Applications</i> , 2011 , 131, 1240-1245	0.2	
31	Dynamic Characteristics Analysis of Two-DOF Oscillatory Actuator and Experimental Verification of Prototype. <i>IEEJ Transactions on Industry Applications</i> , 2011 , 131, 1165-1170	0.2	
30	Proposal of an Axial Gap Magnetic Gear. <i>IEEJ Transactions on Industry Applications</i> , 2010 , 130, 802-807	0.2	4
29	Dynamic analysis of axial-type magnetic gear employing 3-D FEM 2010,		1
28	Transmission torque characteristics in a magnetic gear 2010,		14
27	Feedback control of electromagnetic spherical actuator with three-degree-of-freedom 2010,		5
26	Dynamic Characteristics Analysis of a Small-Sized Linear Oscillatory Actuator Employing the 3-D Finite Element Method. <i>IEEJ Transactions on Industry Applications</i> , 2010 , 130, 568-573	0.2	3

25	Study on Cogging Torque Reduction in a Hybrid-Type Magnetic Gear. <i>IEEJ Transactions on Industry Applications</i> , 2010 , 130, 692-698	0.2	4
24	Analysis Method for Giant Magnetostrictive Material Based Actuator Using FEM. <i>IEEJ Transactions on Industry Applications</i> , 2010 , 130, 721-727	0.2	2
23	Dynamic Analysis of 2D Electromagnetic Resonant Optical Scanner Using 3D Finite Element Method. <i>IEEJ Transactions on Industry Applications</i> , 2010 , 130, 1102-1107	0.2	
22	Coupled Electro-Magneto-Mechanical-Acoustic Analysis Method Developed by Using 2D Finite Element Method for Flat Panel Speaker Driven by Magnetostrictive-Material-Based Actuator. <i>IEEJ Transactions on Industry Applications</i> , 2010 , 130, 1315-1322	0.2	
21	Study on Dynamic Characteristic Analysis of 3-D Spherical Actuator. <i>IEEJ Transactions on Industry Applications</i> , 2010 , 130, 1081-1086	0.2	
20	Trajectory Analysis of 2-D Magnetic Resonant Actuator. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 1732-1735		18
19	Dynamic Analysis of Linear Resonant Actuator under PWM Control Employing the 3-D Finite Element Method. <i>IEEJ Transactions on Industry Applications</i> , 2009 , 129, 756-760	0.2	
18	Dynamic Analysis of Linear Resonant Actuator Driven by DC Motor Taking into Account Contact Resistance Between Brush and Commutator. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 1510-1513	2	18
17	Fully coupled electro-magneto-mechanical analysis method of magnetostrictive actuator using 3-D finite element method 2008 ,		1
16	Analysis method of negative ion by electrostatic atomization employing MPS method and FEM 2008 ,		1
15	New Spherical Resonant Actuator. <i>IEEJ Transactions on Industry Applications</i> , 2008 , 128, 642-647	0.2	3
14	Impedance Characteristics Analysis of the Non-Contact Magnetic Type Position Sensor. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2008 , 128, 435-441	0.2	
13	Transmission Analysis of Electromagnetic Induction Type RFID System -Transmission Characteristics between Two Resonant Circuits-. <i>IEEJ Transactions on Power and Energy</i> , 2008 , 128, 1271-1277	0.2	
12	Dynamic Analysis of Electromagnetic Impact Drive Mechanism Using Eddy Current. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 1421-1424	2	17
11	Dynamic Analysis Method of Two-Dimensional Linear Oscillatory Actuator Employing Finite Element Method. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 1441-1444	2	45
10	Fast Computation Technique of Genetic Algorithm Based on Finite Element Method. <i>IEEJ Transactions on Industry Applications</i> , 2007 , 127, 1009-1012	0.2	2
9	Study on The Response Improvement of A Linear Actuator Using Temperature-Sensitive Magnetic Material. <i>IEEJ Transactions on Industry Applications</i> , 2007 , 127, 1103-1108	0.2	1
8	New Linear Oscillatory Actuator Using DC Motor. <i>IEEJ Transactions on Industry Applications</i> , 2006 , 126, 1156-1160	0.2	2

7	Performance Analysis of DC-DC Converter with MHz Band Transformer Employing Finite Element Method. <i>IEEJ Transactions on Industry Applications</i> , 2006 , 126, 1274-1278	0.2	
6	Performance Analysis of MHz Band Transformer Taking Account of Displacement Current. <i>IEEJ Transactions on Industry Applications</i> , 2006 , 126, 131-136	0.2	
5	Dynamic Analysis of A New Linear Actuator Using 3-D Finite Element Method. <i>IEEJ Transactions on Industry Applications</i> , 2006 , 126, 1151-1155	0.2	2
4	Dynamic Analysis of Eddy Current Damping Mechanism Employing 3-D Finite Element Method. <i>IEEJ Transactions on Industry Applications</i> , 2005 , 125, 1140-1144	0.2	1
3	Effects of Near-Ultraviolet Light on Alkaloid Production in <i>Catharanthus roseus</i> Plants. <i>Planta Medica</i> , 1993 , 59, 46-50	3.1	5 ¹
2	Effect of Near-Ultraviolet Light on Alkaloid Production in Multiple Shoot Cultures of <i>Catharanthus roseus</i> . <i>Planta Medica</i> , 1991 , 57, 499-500	3.1	22
1	Quantitative Determination of Vinblastine in Tissue Cultures of <i>Catharanthus roseus</i> by Radioimmunoassay. <i>Planta Medica</i> , 1989 , 55, 262-4	3.1	14