Masami Nakano

List of Publications by Year
in descending order

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56 papers	575 citations	687363 13 h-index	677142 22 g-index
57 all docs	57 docs citations	57 times ranked	432 citing authors

#	Article	IF	Citations
1	An adaptive tuned vibration absorber based on multilayered MR elastomers. Smart Materials and Structures, 2015, 24, 045045.	3.5	64
2	Experimental and modelling study of the effect of temperature on shear thickening fluids. Korea Australia Rheology Journal, 2015, 27, 17-24.	1.7	45
3	Design and testing of a rotational brake with shear thickening fluids. Smart Materials and Structures, 2017, 26, 035038.	3.5	44
4	Development of magnetorheological elastomersâ€“based tuned mass damper for building protection from seismic events. Journal of Intelligent Material Systems and Structures, 2018, 29, 1777-1789.	2.5	37
5	Development of a linear damper working with magnetorheological shear thickening fluids. Journal of Intelligent Material Systems and Structures, 2015, 26, 1811-1817.	2.5	34
6	Experimental and modeling study of viscoelastic behaviors of magneto-rheological shear thickening fluids. Korea Australia Rheology Journal, 2014, 26, 149-158.	1.7	33
7	Noise and Vibration Related to the Patterns of Supersonic Annular Flow in a Pressure Reducing Gas Valve. Journal of Fluids Engineering, Transactions of the ASME, 1988, 110, 55-61.	1.5	26
8	Energy conversion in magneto-rheological elastomers. Science and Technology of Advanced Materials, 2017, 18, 766-778.	6.1	26
9	Forced ventilation for sensing-based risk mitigation of leaking hydrogen in a partially open space. International Journal of Hydrogen Energy, 2010, 35, 4776-4786.	7.1	21
10	Applications of shear thickening fluids: a review. International Journal of Hydromechatronics, 2018, 1, 238.	2.3	18
11	PWM Flow Rate Control of ER Valve and its Application to ER Actuator Control. International Journal of Modern Physics B, 1999, 13, 2168-2175.	2.0	17
12	The sensing-based adaptive risk mitigation of leaking hydrogen in a partially open space. International Journal of Hydrogen Energy, 2009, 34, 8770-8782.	7.1	17
13	A magnetorheological elastomer rail damper for wideband attenuation of rail noise and vibration. Journal of Intelligent Material Systems and Structures, 2020, 31, 220-228.	2.5	16
14	Acceleration of hydrogen forced ventilation after leakage ceases in a partially open space. International Journal of Hydrogen Energy, 2012, 37, 7940-7949.	7.1	13
15	EVALUATIONS OF CLUSTER STRUCTURE AND MAGNETO-RHEOLOGY OF MR SUSPENSIONS. International Journal of Modern Physics B, 2005, 19, 1437-1442.	2.0	11
16	Sensing-based risk mitigation control of hydrogen dispersion and accumulation in a partially open space with low-height openings by forced ventilation. International Journal of Hydrogen Energy, 2012, 37, 1972-1984.	7.1	11
17	Experimental Study of a Variable Stiffness Seat Suspension Installed With a Compact Rotary MR Damper. Frontiers in Materials, 2021, 8, .	2.4	11
18	Study on the Development of Passive MR Damper with Displacement-Dependent Damping Characteristics. Journal of Fluid Science and Technology, 2010, 5, 86-97.	0.6	10

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19	Dynamic Shear Flow Behavior of Magneto-Rheological Fluid between Two Rotating Parallel Disks under Relatively Weak Magnetic Field. JSME International Journal Series B, 2005, 48, 494-500.	0.3	9
20	Direct Computation of a Hole-Tone Feedback System at Very Low Mach Numbers. Journal of Fluid Science and Technology, 2011, 6, 548-561.	0.6	9
21	Development and damping properties of a seismic linear motion damper with MR fluid porous composite rotary brake. Smart Materials and Structures, 2020, 29, 115043.	3.5	9
22	Rheological Properties and Dynamic Mechanical Model of a Magnetorheological Suspension in Pressure Flow Mode.. Nihon Reoroji Gakkaishi, 2002, 30, 83-88.	1.0	9
23	HYSTERESIS PHENOMENON IN FLOW-CURVES OF ER FLUIDS CONTAINING SULFONATED POLYMER PARTICLES. International Journal of Modern Physics B, 2001, 15, 1070-1077.	2.0	8
24	Numerical Simulation of MR Fluid Damping Characteristics Using a Modified Bingham Model. Journal of Intelligent Material Systems and Structures, 2002, 13, 647-653.	2.5	8
25	Design and development of a braille display using micro actuators driven by ER suspension. International Journal of Applied Electromagnetics and Mechanics, 2010, 33, 1661-1669.	0.6	8
26	Active loading machine using MR fluid clutch for leg rehabilitation system. International Journal of Applied Electromagnetics and Mechanics, 2012, 39, 463-469.	0.6	7
27	Shape-Controlled Syntheses of Magnetite Microparticles and Their Magnetorheology. International Journal of Molecular Sciences, 2019, 20, 3617.	4.1	7
28	Development and flow evaluation of electro-rheological nano-suspensions. Colloid and Polymer Science, 2011, 289, 855-862.	2.1	6
29	STEADY AND TRANSIENT RESPONSES OF ELECTRORHEOLOGICAL SUSPENSION PASSING THROUGH A RECTANGULAR CHANNEL. International Journal of Modern Physics B, 1996, 10, 2965-2972.	2.0	5
30	Damping and response characteristics of passive type MR damper. International Journal of Applied Electromagnetics and Mechanics, 2010, 33, 911-917.	0.6	5
31	Electrorotation of novel electroactive polymer composites in uniform DC and AC electric fields. Smart Materials and Structures, 2012, 21, 065022.	3.5	5
32	Dynamic restriction mechanism for the upper limit of exhaust flow rates in the real-time sensing-based forced ventilation control of leaking hydrogen. International Journal of Hydrogen Energy, 2015, 40, 4401-4411.	7.1	5
33	Fabrication and electrorotation of a novel epoxy based micromotor working in a uniform DC electric field. Smart Materials and Structures, 2015, 24, 105010.	3.5	3
34	A numerical study of the hole-tone phenomenon subjected to non-axisymmetric shape perturbations of the jet nozzle. Theoretical and Computational Fluid Dynamics, 2015, 29, 127-153.	2.2	3
35	Development and micro-gap flow evaluation of electro-rheological nano-suspensions. Colloid and Polymer Science, 2013, 291, 1279-1286.	2.1	2
36	A combined analytical and numerical analysis of the flow-acoustic coupling in a cavity-pipe system. Theoretical and Computational Fluid Dynamics, 2018, 32, 451-473.	2.2	2

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37	THE JET HOLE-TONE OSCILLATION CYCLE SUBJECTED TO ACOUSTIC EXCITATION : A NUMERICAL STUDY BASED ON AN AXISYMMETRIC VORTEX METHOD(Sound and Nature). The Proceedings of the International Conference on Jets Wakes and Separated Flows (ICJWSF), 2005, 2005, 745-750.	0.1	2
38	Dynamic Viscoelasticity of an ER Fluid in Oscillatory Slit Flow and its ER Micro-Structural Mechanism. , 0, , .		1
39	EVALUATIONS OF CLUSTER STRUCTURE AND MAGNETO-RHEOLOGY OF MR SUSPENSIONS. , 2005, , .		1
40	Development of a Passive Type MR Damper with Variable Damping Characteristics Dependent on the Displacement and Velocity. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2011, 77, 257-269.	0.2	1
41	Numerical Evaluation Method for Semi-Active Damping Characteristics of a Passive-Type MR Damper with Functional Damping Force. Journal of Intelligent Material Systems and Structures, 2011, 22, 327-336.	2.5	1
42	Simultaneous observations of microgap flow behavior and microstructure of electro-rheological nano-suspensions based on titanium dioxide nano-particles. Colloid and Polymer Science, 2015, 293, 2531-2541.	2.1	1
43	Asymptotic and numerical analysis of resonance and lock-in by flow-acoustic interaction in an expansion chamber-pipe system. Journal of Fluid Science and Technology, 2016, 11, JFST0030-JFST0030.	0.6	1
44	Numerical Simulation of the Hole-Tone Feedback Cycle Based on the Discrete Vortex Method and the Acoustic Analogy. , 2003, , .		1
45	Research Trends and Future Prospects on Functional Fluids(<Special Issue>Flow Behaviour and) Tj ETQq1 1 0.784314 rgBT /Over Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2009, 75, 893-900.	0.2	0
46	Micro-gap flow behavior and micro-structure of stored electro-rheological nano-suspensions in the presence of sinusoidal electric field. Colloid and Polymer Science, 2017, 295, 441-451.	2.1	0
47	Evaluations of Cluster Structure and Magnetic Functions of MR Fluids. The Proceedings of Conference of Tohoku Branch, 2002, 2002.37, 18-19.	0.0	0
48	2424 Dynamics and stability of a cylindrical, flexible rod subjected to annular leakage flow. The Proceedings of the JSME Annual Meeting, 2003, 2003.7, 291-292.	0.0	0
49	Rheological and Flow Properties of Electro-Rheological and Magneto-Rheological Fluids, and Their Engineering Applications. The Proceedings of the Fluids Engineering Conference, 2004, 2004, 199.	0.0	0
50	308 PIV Measurement on Flow Structure around a Car Mirror. The Proceedings of Autumn Conference of Tohoku Branch, 2005, 2005.41, 101-102.	0.0	0
51	309 PIV Measurement on Flow around a Dune. The Proceedings of Autumn Conference of Tohoku Branch, 2005, 2005.41, 103-104.	0.0	0
52	202 ER valve flow behavior of ER suspension and Its application to micro-actuator for Braille display(1). The Proceedings of the Fluids Engineering Conference, 2006, 2006, _202-a_.	0.0	0
53	2306 Rheological Properties and Flow Behavior of Nano-Particle ER fluid In Shear Flow Mode. The Proceedings of the JSME Annual Meeting, 2006, 2006.2, 25-26.	0.0	0
54	202 ER valve flow behavior of ER suspension and Its application to micro-actuator for Braille display(2). The Proceedings of the Fluids Engineering Conference, 2006, 2006, _202-1_-_202-4_.	0.0	0

#	Article	IF	Citations
55	Direct Numerical Simulation of Global Instability in a Hole-Tone Feedback System. , 2011, , .		0
56	Applications of Electro-/Magneto-Rheological Fluids to Vibration Control Systems. Journal of the Robotics Society of Japan, 2013, 31, 452-456.	0.1	0