Seung Bok Choi

List of Publications by Year
in descending order

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Version: 2024-02-01

757 papers	14,592 citations	30070 54 h-index	62596 80 g-index
772 all docs	772 docs citations	772 times ranked	5622 citing authors

#	Article	IF	Citations
1	Design and experimental evaluation a novel magneto-rheological brake with tooth shaped rotor. Smart Materials and Structures, 2022, 31, 015015.	3.5	3
2	Effect of Time and Frequency of Magnetic Field Application on MRF Pressure Performance. Micromachines, 2022, 13, 222.	2.9	1
3	Medical applications of magnetorheological fluidsâ€”a review. , 2022, , 485-500.		2
4	A Cylindrical Grip Type of Tactile Device Using Magneto-Responsive Materials Integrated with Surgical Robot Console: Design and Analysis. Sensors, 2022, 22, 1085.	3.8	7
5	A mathematical model of cavitation behaviour in a single-ended magnetorheological damper: experimental validation. Smart Materials and Structures, 2022, 31, 035012.	3.5	6
6	Applications of Magnetorheological Fluid Actuator to Multi-DOF Systems: State-of-the-Art from 2015 to 2021. Actuators, 2022, 11, 44.	2.3	18
7	Design, Modeling, and Simulation of Low-Cost Magnetorheological Fluid-Based Prosthetic Leg. Lecture Notes in Mechanical Engineering, 2022, , 281-294.	0.4	2
8	A state-of-the-art on smart materials actuators over the last decade: control aspects for diverse applications. Smart Materials and Structures, 2022, 31, 053001.	3.5	9
9	Modeling and Performance Analysis of Linear Part Feeder System Actuated by Piezoelectric Transducers. International Journal of Precision Engineering and Manufacturing, 2022, 23, 57-65.	2.2	3
10	Field-Dependent Rheological Properties of Magnetorheological Elastomer with Fountain-Like Particle Chain Alignment. Micromachines, 2022, 13, 492.	2.9	6
11	Design and Analysis of a Hybrid Annular Radial Magnetorheological Damper for Semi-Active In-Wheel Motor Suspension. Sensors, 2022, 22, 3689.	3.8	6
12	Control Aspects of Shape Memory Alloys in Robotics Applications: A Review over the Last Decade. Sensors, 2022, 22, 4860.	3.8	15
13	Model establishment of surface roughness and experimental investigation on magnetorheological finishing for polishing the internal surface of titanium alloy tubes. Journal of Intelligent Material Systems and Structures, 2021, 32, 1278-1289.	2.5	12
14	Response time of magnetorheological dampers to current inputs in a semi-active suspension system: Modeling, control and sensitivity analysis. Mechanical Systems and Signal Processing, 2021, 146, 106999.	8.0	79
15	Smart dampers-based vibration control â€“ Part 2: Fractional-order sliding control for vehicle suspension system. Mechanical Systems and Signal Processing, 2021, 148, 107145.	8.0	32
16	Landing efficiency control of a six-degree-of-freedom aircraft model with magnetorheological dampers: Part 1â€”Modeling. Journal of Intelligent Material Systems and Structures, 2021, 32, 1290-1302.	2.5	9
17	Landing efficiency control of a six degrees of freedom aircraft model with magneto-rheological dampers: Part 2â€”control simulation. Journal of Intelligent Material Systems and Structures, 2021, 32, 1303-1315.	2.5	6
18	Accurate and fast estimation for field-dependent nonlinear damping force of meandering valve-based magnetorheological damper using extreme learning machine method. Sensors and Actuators A: Physical, 2021, 318, 112479.	4.1	24

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19	Road traveling test for vibration control of a wheel loader cabin installed with magnetorheological mounts. Journal of Intelligent Material Systems and Structures, 2021, 32, 1336-1348.	2.5	7
20	Dynamic analysis of semi-active MR suspension system considering response time and damping force curve. Journal of Intelligent Material Systems and Structures, 2021, 32, 1462-1472.	2.5	9
21	A New Switching Adaptive Fuzzy Controller with an Application to Vibration Control of a Vehicle Seat Suspension Subjected to Disturbances. Applied Sciences (Switzerland), 2021, 11, 2244.	2.5	9
22	Active dispersing mechanism for settled magnetorheological fluid featuring with rotary blades and inductive coils in twin-tube damper. Smart Materials and Structures, 2021, 30, 067001.	3.5	7
23	A New Tactile Transfer Cell Using Magnetorheological Materials for Robot-Assisted Minimally Invasive Surgery. Sensors, 2021, 21, 3034.	3.8	15
24	Vibration control of gun recoil system with magneto-rheological damper associated with adaptive hybrid skyhook active force control. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	2
25	Novel Approaches to the Design of an Ultra-Fast Magnetorheological Valve for Semi-Active Control. Materials, 2021, 14, 2500.	2.9	21
26	The friction and wear mechanism of O-rings in magnetorheological damper: Numerical and experimental study. Tribology International, 2021, 157, 106898.	5.9	14
27	A Sensaptic ADAS Device Using Shape Memory Alloy Wires: Design and Control. Materials, 2021, 14, 3494.	2.9	0
28	The Effect of Sr-CoFe2O4 Nanoparticles with Different Particles Sized as Additives in CIP-Based Magnetorheological Fluid. Materials, 2021, 14, 3684.	2.9	7
29	A new magnetic core model for magnetorheological fluid-based applications considering fringing effect of gap and magnetic nonlinearity of fluids. Smart Materials and Structures, 2021, 30, 085043.	3.5	2
30	The Effect of Microparticles on the Storage Modulus and Durability Behavior of Magnetorheological Elastomer. Micromachines, 2021, 12, 948.	2.9	12
31	A New Design Model of an MR Shock Absorber for Aircraft Landing Gear Systems Considering Major and Minor Pressure Losses: Experimental Validation. Applied Sciences (Switzerland), 2021, 11, 7895.	2.5	9
32	A new design of small-sized magnetorheological brakes based on the mixed mode operation for high torque efficiency. Smart Materials and Structures, 2021, 30, 117001.	3.5	4
33	The Effect of Spool Displacement Control to the Flow Rate in the Piezoelectric Stack-Based Valve System Subjected to High Operating Temperature. Actuators, 2021, 10, 239.	2.3	2
34	Modeling, measurements and validation of magnetic field dependent flow behavior of magnetorheological fluids; static and dynamic yield stress. Smart Materials and Structures, 2021, 30, 117002.	3.5	4
35	A hybrid skyhook active force control for impact mitigation using magneto-rheological elastomer isolator. Smart Materials and Structures, 2021, 30, 025043.	3.5	7
36	Robust semiactive control of a halfâ€car vehicle suspension system with magnetorheological dampers: Quantitative feedback theory approach with dynamic decoupler. International Journal of Robust and Nonlinear Control, 2021, 31, 1418-1435.	3.7	12

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37	A new design of magnetic circuits in magnetorheological dampers for simple structure subjected to small stroke and low damping force. Smart Materials and Structures, 2021, 30, 015036.	3.5	9
38	Declining Performance of Silicone-Based Magnetorheological Elastomers after Accelerated Weathering. Materials, 2021, 14, 6389.	2.9	4
39	Review of Magnetorheological Damping Systems on a Seismic Building. Applied Sciences (Switzerland), 2021, 11, 9339.	2.5	12
40	Performance evaluation of a 3D haptic joystick featuring two bidirectional MR actuators and a linear MRB. Smart Materials and Structures, 2021, 30, 017003.	3.5	3
41	Dual Properties of Polyvinyl Alcohol-Based Magnetorheological Plastomer with Different Ratio of DMSO/Water. Sensors, 2021, 21, 7758.	3.8	0
42	Effect of Disc Parameters on the Braking Torque of Disc Type Magnetorheological Brake. , 2021, , .		0
43	The Effect of Graphite Additives on Magnetization, Resistivity and Electrical Conductivity of Magnetorheological Plastomer. Materials, 2021, 14, 7484.	2.9	2
44	Dynamic simulation of a full vehicle system featuring magnetorheological dampers with bypass holes. Journal of Intelligent Material Systems and Structures, 2020, 31, 253-262.	2.5	14
45	Effects of magnetic core parameters on landing stability and efficiency of magnetorheological damper-based landing gear system. Journal of Intelligent Material Systems and Structures, 2020, 31, 198-208.	2.5	14
46	Thermal Aging Rheological Behavior of Magnetorheological Elastomers Based on Silicone Rubber. International Journal of Molecular Sciences, 2020, 21, 9007.	4.1	8
47	Vibration Diagnosis of Sand Units in a Stone Crusher Plant: An On-Site Field Test. Applied Sciences (Switzerland), 2020, 10, 4327.	2.5	2
48	Design of a Novel Magnetorheological Damper Adaptable to Low and High Stroke Velocity of Vehicle Suspension System. Applied Sciences (Switzerland), 2020, 10, 5586.	2.5	19
49	Tunable Youngâ€™s Moduli of Soft Composites Fabricated from Magnetorheological Materials Containing Microsized Iron Particles. Materials, 2020, 13, 3378.	2.9	13
50	A fuzzy sliding mode control of anti-lock system featured by magnetorheological brakes: performance evaluation via the hardware-in-the-loop simulation. Journal of Intelligent Material Systems and Structures, 2020, , 1045389X2097443.	2.5	4
51	Effects of corrosion rate of the magnetic particles on the field-dependent material characteristics of silicone based magnetorheological elastomers. Smart Materials and Structures, 2020, 29, 087003.	3.5	5
52	Smart dampers-based vibration control â€“ Part 1: Measurement data processing. Mechanical Systems and Signal Processing, 2020, 145, 106958.	8.0	9
53	Processing Online Massive Measuring Databases via Data-Uncertainty Quantifying Mechanism to Synthesize ANFIS. International Journal of Fuzzy Systems, 2020, 22, 1679-1693.	4.0	4
54	New control logic based on mechanical energy conservation for aircraft landing gear system with magnetorheological dampers. Smart Materials and Structures, 2020, 29, 084003.	3.5	22

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55	Modal characteristics of a cantilever beam with the free-end immersed in a magnetorheological fluid. Smart Materials and Structures, 2020, 29, 084001.	3.5	1
56	Annular Surface Micromachining of Titanium Tubes Using a Magnetorheological Polishing Technique. Micromachines, 2020, 11, 314.	2.9	16
57	A Concentric Design of a Bypass Magnetorheological Fluid Damper with a Serpentine Flux Valve. Actuators, 2020, 9, 16.	2.3	30
58	A Tactile Device Generating Repulsive Forces of Various Human Tissues Fabricated from Magnetic-Responsive Fluid in Porous Polyurethane. Materials, 2020, 13, 1062.	2.9	13
59	Design and experimental evaluation of a novel bidirectional magnetorheological actuator. Smart Materials and Structures, 2020, 29, 117001.	3.5	6
60	A new optimal sliding mode controller with adjustable gains based on Bolza-Meyer criterion for vibration control. Journal of Sound and Vibration, 2020, 485, 115542.	3.9	10
61	Field-Dependent Stiffness of a Soft Structure Fabricated from Magnetic-Responsive Materials: Magnetorheological Elastomer and Fluid. Materials, 2020, 13, 953.	2.9	11
62	Tunable low range Gr induced magnetorheological elastomer with magnetically conductive feedback. Smart Materials and Structures, 2020, 29, 057001.	3.5	7
63	Optimal Composition of ZnO/WO 3 Composite Nanoparticle Gas Sensors. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900874.	1.8	2
64	Particle-chain evolution and constitutive model of magnetorheological polishing fluids based on hexagonal close-packed structure. Smart Materials and Structures, 2020, 29, 045012.	3.5	11
65	Dynamic Analysis of Sphere-Like Iron Particles Based Magnetorheological Damper for Waveform-Generating Test System. International Journal of Molecular Sciences, 2020, 21, 1149.	4.1	5
66	A new magnetic-responsive hybrid soft composite with tunable equivalent tensile modulus: a proof-of-concept. Smart Materials and Structures, 2020, 29, 077001.	3.5	2
67	Explicit model predictive control of semi-active suspension systems with magneto-rheological dampers subject to input constraints. Journal of Intelligent Material Systems and Structures, 2020, 31, 1157-1170.	2.5	27
68	Microstructure Simulation and Constitutive Modelling of Magnetorheological Fluids Based on the Hexagonal Close-packed Structure. Materials, 2020, 13, 1674.	2.9	16
69	The effect of MnxCo(1-x)Fe2O4 with x = 0, 0.25 and 0.5 as nanoparticles additives in magnethorheological fluid. Smart Materials and Structures, 2020, 29, 114004.	3.5	4
70	Synthesis and Characterization of Innovative Type Magneto-Rheological Fluid. International Journal of Nanoscience, 2019, 18, 1850041.	0.7	7
71	A novel semi-active control strategy based on the cascade quantitative feedback theory for a vehicle suspension system. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 1851-1863.	1.9	6
72	Control of Landing Efficiency of an Aircraft Landing Gear System With Magnetorheological Dampers. Journal of Aircraft, 2019, 56, 1980-1986.	2.4	36

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73	Material Characterization of Magnetorheological Elastomers with Corroded Carbonyl Iron Particles: Morphological Images and Field-dependent Viscoelastic Properties. International Journal of Molecular Sciences, 2019, 20, 3311.	4.1	11
74	Selection of Materials Used in Viscous Clutch With ER Fluid Working in Special Conditions. Frontiers in Materials, 2019, 6, .	2.4	7
75	Non-sequential QFT Design Methodology for Disturbance Rejection Problem in Uncertain Multivariable Systems. International Journal of Control, Automation and Systems, 2019, 17, 2183-2192.	2.7	2
76	Characterization of morphological and rheological properties of rigid magnetorheological foams via in situ fabrication method. Journal of Materials Science, 2019, 54, 13821-13833.	3.7	17
77	A New Anti-Windup Compensator Based on Quantitative Feedback Theory for an Uncertain Linear System with Input Saturation. Applied Sciences (Switzerland), 2019, 9, 2958.	2.5	4
78	Material Characterization of MR Fluid on Performance of MRF Based Brake. Frontiers in Materials, 2019, 6, .	2.4	15
79	Effects of micron-sized iron particles on friction and wear behaviors of seals used in a magnetorheological damper: analysis and experiment. Smart Materials and Structures, 2019, 28, 095019.	3.5	8
80	A quasi-static model for the pinch mode analysis of a magnetorheological fluid flow with an experimental validation. Mechanical Systems and Signal Processing, 2019, 134, 106308.	8.0	13
81	Enhancement of Particle Alignment Using Silicone Oil Plasticizer and Its Effects on the Field-Dependent Properties of Magnetorheological Elastomers. International Journal of Molecular Sciences, 2019, 20, 4085.	4.1	30
82	An effective energy harvesting in low frequency using a piezo-patch cantilever beam with tapered rectangular cavities. Sensors and Actuators A: Physical, 2019, 297, 111522.	4.1	17
83	The Repulsive Force Spectrum of Magnetorheological Fluids Based Tactile Devices Applicable to Robot Surgery. Current Smart Materials, 2019, 4, 75-82.	0.5	1
84	3D-Printed Soft Structure of Polyurethane and Magnetorheological Fluid: A Proof-of-Concept Investigation of its Stiffness Tunability. Micromachines, 2019, 10, 655.	2.9	17
85	An Electrohydrodynamic Jet Printing System With Metal Nanoparticle-Based Ink: Experimental Evaluation. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 343-352.	2.5	2
86	Material Characterizations of Gr-Based Magnetorheological Elastomer for Possible Sensor Applications: Rheological and Resistivity Properties. Materials, 2019, 12, 391.	2.9	48
87	A Robust Controller for Multivariable Model Matching System Utilizing a Quantitative Feedback Theory: Application to Magnetic Levitation. Applied Sciences (Switzerland), 2019, 9, 1753.	2.5	5
88	Influence of the distribution of nanoparticles on the NO2 sensing properties of SnO2 nanorods decorated with CaO and Pt. Journal of Alloys and Compounds, 2019, 802, 649-659.	5.5	6
89	Vibration Controllability of Sandwich Structures with Smart Materials of Electrorheological Fluids and Magnetorheological Materials: A Review. Journal of Vibration Engineering and Technologies, 2019, 7, 359-377.	2.2	49
90	A New Scheduling Quantitative Feedback Theory-Based Controller Integrated with Fault Detection for Effective Vibration Control. Shock and Vibration, 2019, 2019, 1-9.	0.6	0

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91	Series Niâ€“Ti shape memory alloy wires with different martensiticâ€“austenitic phase transformation temperatures as an actuator for input shaping control. Smart Materials and Structures, 2019, 28, 077001.	3.5	4
92	A Review on the Development of Dampers Utilizing Smart Magnetorheological Fluids. Current Smart Materials, 2019, 4, 15-21.	0.5	10
93	Design, fabrication and testing of a magnetorheologic fluid braking system for machine tool application. SN Applied Sciences, 2019, 1, 1.	2.9	9
94	An eddy current effect on the response time of a magnetorheological damper: Analysis and experimental validation. Mechanical Systems and Signal Processing, 2019, 127, 136-158.	8.0	57
95	A robot-assisted cutting surgery of human-like tissues using a haptic master operated by magnetorheological clutches and brakes. Smart Materials and Structures, 2019, 28, 065016.	3.5	25
96	Swelling, Thermal, and Shear Properties of a Waste Tire Rubber Based Magnetorheological Elastomer. Frontiers in Materials, 2019, 6, .	2.4	13
97	The Effect of Particle Shapes on the Field-Dependent Rheological Properties of Magnetorheological Greases. International Journal of Molecular Sciences, 2019, 20, 1525.	4.1	20
98	Fine position control of a vehicle maintenance lift system using a hydraulic unit activated by magnetorheological valves. Journal of Intelligent Material Systems and Structures, 2019, 30, 896-907.	2.5	6
99	The field-dependent viscoelastic and transient responses of plate-like carbonyl iron particle based magnetorheological greases. Journal of Intelligent Material Systems and Structures, 2019, 30, 788-797.	2.5	22
100	Magnetorheological Fluid Based Devices Reported in 2013â€“2018: Mini-Review and Comment on Structural Configurations. Frontiers in Materials, 2019, 6, .	2.4	38
101	New hybrid optimal controller applied to a vibration control system subjected to severe disturbances. Mechanical Systems and Signal Processing, 2019, 124, 408-423.	8.0	18
102	Ride Quality Control of a Full Vehicle Suspension System Featuring Magnetorheological Dampers With Multiple Orifice Holes. Frontiers in Materials, 2019, 6, .	2.4	25
103	The field-dependent rheological properties of plate-like carbonyl iron particle-based magnetorheological elastomers. Results in Physics, 2019, 12, 2146-2154.	4.1	30
104	Experimental Performance Evaluation of a MR Brake-Based Haptic System for Teleoperation. Frontiers in Materials, 2019, 6, .	2.4	13
105	Dynamic characteristics of passive and semi-active cabin mounts for vibration control of a wheel loader. International Journal of Heavy Vehicle Systems, 2019, 26, 239.	0.2	7
106	Enhancement of Viscoelastic and Electrical Properties of Magnetorheological Elastomers with Nanosized Ni-Mg Cobalt-Ferrites as Fillers. Materials, 2019, 12, 3531.	2.9	15
107	A Novel Adaptive Gain of Optimal Sliding Mode Controller for Linear Time-Varying Systems. Applied Sciences (Switzerland), 2019, 9, 5050.	2.5	5
108	The Synthesis of Organic Oils Blended Magnetorheological Fluids with the Field-Dependent Material Characterization. International Journal of Molecular Sciences, 2019, 20, 5766.	4.1	19

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109	A New Adaptive Fuzzy PID Controller Based on Riccati-Like Equation with Application to Vibration Control of Vehicle Seat Suspension. Applied Sciences (Switzerland), 2019, 9, 4540.	2.5	23
110	A study of the magnetic fatigue properties of a magnetorheological elastomer. Journal of Intelligent Material Systems and Structures, 2019, 30, 749-754.	2.5	7
111	Role of Additives in Enhancing the Rheological Properties of Magnetorheological Solids: A Review. Advanced Engineering Materials, 2019, 21, 1800696.	3.5	32
112	On the response time of a new permanent magnet based magnetorheological damper: experimental investigation. Smart Materials and Structures, 2019, 28, 014001.	3.5	21
113	A new platform for the prediction of field-dependent yield stress and plastic viscosity of magnetorheological fluids using particle swarm optimization. Applied Soft Computing Journal, 2019, 76, 615-628.	7.2	20
114	Robust position control and disturbance rejection of an industrial plant emulator system using the feedforward-feedback control. Mechatronics, 2019, 57, 29-38.	3.3	13
115	An electromechanical model of an electro-responsive liquid droplet actuator for microsystems: Modeling and verification. Sensors and Actuators A: Physical, 2019, 285, 338-347.	4.1	1
116	Thermal and tribological characteristics of a disc-type magnetorheological brake operated by the shear mode. Journal of Intelligent Material Systems and Structures, 2019, 30, 722-733.	2.5	28
117	Design of a new magneto-rheological pressure seal for rotary shaft. , 2019, , .		2
118	A sky-ground hook controller for efficiency enhancement of aircraft landing gear with MR damper. , 2019, , .		3
119	Frictional Effect on Magnetorheological Fluid. Advanced Science, Engineering and Medicine, 2019, 11, 367-374.	0.3	2
120	Design of Sky-ground Hook Controller for MR Damper of Aircraft Landing Gear. Transactions of the Korean Society for Noise and Vibration Engineering, 2019, 29, 222-229.	0.4	2
121	Design of a new magneto-rheological damper featuring a hybrid type of piston for lower limb exoskeleton. , 2019, , .		0
122	A new magneto-rheological skin for controlling pressure of haptic devices. , 2019, , .		1
123	An experimental study on torque characteristics of magnetorheological brake with modified magnetic core shape. Advances in Mechanical Engineering, 2018, 10, 168781401775222.	1.6	25
124	A new composite adaptive controller featuring the neural network and prescribed sliding surface with application to vibration control. Mechanical Systems and Signal Processing, 2018, 107, 409-428.	8.0	44
125	Implementation of functionalized multiwall carbon nanotubes on magnetorheological elastomer. Journal of Materials Science, 2018, 53, 10122-10134.	3.7	32
126	A state of art on magneto-rheological materials and their potential applications. Journal of Intelligent Material Systems and Structures, 2018, 29, 2051-2095.	2.5	198

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127	Lateral vibration control of a precise machine using magneto-rheological mounts featuring multiple directional damping effect. Smart Materials and Structures, 2018, 27, 037001.	3.5	4
128	A new fuzzy-disturbance observer-enhanced sliding controller for vibration control of a train-car suspension with magneto-rheological dampers. Mechanical Systems and Signal Processing, 2018, 105, 447-466.	8.0	52
129	A new approach to hysteresis modelling for a piezoelectric actuator using Preisach model and recursive method with an application to open-loop position tracking control. Sensors and Actuators A: Physical, 2018, 270, 136-152.	4.1	59
130	Constitutive models of magnetorheological fluids having temperature-dependent prediction parameter. Smart Materials and Structures, 2018, 27, 095001.	3.5	46
131	Selective Detection of a Reducing Gas Using WO₃â€Decorated ZnO Nanorodâ€Based Sensor in the Presence of Oxidizing Gases. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700929.	1.8	4
132	Particle interaction energy and hysteresis in polar and non-polar medium based magnetic fluids. Journal of Industrial and Engineering Chemistry, 2018, 63, 133-138.	5.8	1
133	Effects of annealing temperature on the H2-sensing properties of Pd-decorated WO3 nanorods. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	5
134	Control of a shimmy vibration in vehicle steering system using a magneto-rheological damper. JVC/Journal of Vibration and Control, 2018, 24, 797-807.	2.6	17
135	Recurrent Mechanism and Impulse Noise Filter for Establishing ANFIS. IEEE Transactions on Fuzzy Systems, 2018, 26, 985-997.	9.8	30
136	Cr2O3 nanoparticle-functionalized WO3 nanorods for ethanol gas sensors. Applied Surface Science, 2018, 432, 241-249.	6.1	115
137	Comparative Study on Wear Characteristics between Flow Mode and Shear Mode Magnetorheological Dampers. Tribology Transactions, 2018, 61, 459-473.	2.0	5
138	Shock mitigation of pedestrians from sports utility vehicles impact using active pop-up and extended hood mechanisms: experimental work. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2018, 232, 1573-1583.	1.9	2
139	Volatile organic compound sensing properties of MoO3â€“ZnO coreâ€“shell nanorods. Current Applied Physics, 2018, 18, S60-S67.	2.4	17
140	Design and damping force characterization of a new magnetorheological damper activated by permanent magnet flux dispersion. Smart Materials and Structures, 2018, 27, 015013.	3.5	21
141	Critical operating factors of a jetting dispenser driven by piezostack actuators: statistical analysis of experimental results. Journal of Adhesion Science and Technology, 2018, 32, 359-374.	2.6	6
142	Enhanced NO2 gas-sensing performance of Pd/ZnO-codecorated SnO2 nanorod sensors. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	13
143	Material Characterization of a Magnetorheological Fluid Subjected to Long-Term Operation in Damper. Materials, 2018, 11, 2195.	2.9	40
144	A State-of-the-Art Review on Robots and Medical Devices Using Smart Fluids and Shape Memory Alloys. Applied Sciences (Switzerland), 2018, 8, 1928.	2.5	52

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145	Optimization of the Pt Nanoparticle Size and Calcination Temperature for Enhanced Sensing Performance of Pt-Decorated In2O3 Nanorods. Journal of the Korean Physical Society, 2018, 73, 1444-1451.	0.7	10
146	Braking control performances of a disk-type magneto-rheological brake via hardware-in-the-loop simulation. Journal of Intelligent Material Systems and Structures, 2018, 29, 3937-3948.	2.5	10
147	A Piezoelectric Actuator-Based Direct-Drive Valve for Fast Motion Control at High Operating Temperatures. Applied Sciences (Switzerland), 2018, 8, 1806.	2.5	10
148	A Novel Piezoelectric Energy Harvester Using a Multi-Stepped Beam with Rectangular Cavities. Applied Sciences (Switzerland), 2018, 8, 2091.	2.5	18
149	Design of a New Magnetorheological Damper Based on Passive Oleo-Pneumatic Landing Gear. Journal of Aircraft, 2018, 55, 2510-2520.	2.4	33
150	A new hybrid mount actuator consisting of air spring and magneto-rheological damper for vibration control of a heavy precision stage. Sensors and Actuators A: Physical, 2018, 284, 42-51.	4.1	13
151	Design and control of a parallel mechanism haptic master for robot surgery using magneto-rheological clutches and brakes. Journal of Intelligent Material Systems and Structures, 2018, 29, 3829-3844.	2.5	11
152	A new constitutive model of a magneto-rheological fluid actuator using an extreme learning machine method. Sensors and Actuators A: Physical, 2018, 281, 209-221.	4.1	31
153	A comparative assessment of different dispersing aids in enhancing magnetorheological elastomer properties. Smart Materials and Structures, 2018, 27, 117002.	3.5	16
154	Two-Dimensional rGO-MoS2 Hybrid Additives for High-Performance Magnetorheological Fluid. Scientific Reports, 2018, 8, 12672.	3.3	17
155	Controllable Water Droplet for Microsystem Actuators: An Experimental Analysis. Frontiers in Materials, 2018, 5, .	2.4	0
156	Design of a novel 6-DOF haptic master mechanism using MR clutches and gravity compensator. Mechanics Based Design of Structures and Machines, 2018, 46, 767-780.	4.7	7
157	Improvement of magnetorheological greases with superparamagnetic nanoparticles. MATEC Web of Conferences, 2018, 159, 02066.	0.2	6
158	A fuzzy-based dynamic inversion controller with application to vibration control of vehicle suspension system subjected to uncertainties. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2018, 232, 1103-1119.	1.0	7
159	An Approach for Hysteresis Modeling Based on Shape Function and Memory Mechanism. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1270-1278.	5.8	48
160	Design and Analysis of a New Magnetorheological Damper for Generation of Tunable Shock-Wave Profiles. Shock and Vibration, 2018, 2018, 1-11.	0.6	6
161	Controllable magnetorheological fluid based actuators for 6-degree-of-freedom haptic master applicable to robot-assisted surgery. Sensors and Actuators A: Physical, 2018, 279, 649-662.	4.1	18
162	A comparative work on the magnetic field-dependent properties of plate-like and spherical iron particle-based magnetorheological grease. PLoS ONE, 2018, 13, e0191795.	2.5	28

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163	Material Characterization of Hardening Soft Sponge Featuring MR Fluid and Application of 6-DOF MR Haptic Master for Robot-Assisted Surgery. Materials, 2018, 11, 1268.	2.9	15
164	A novel semi-active control strategy based on the quantitative feedback theory for a vehicle suspension system with magneto-rheological damper saturation. Mechatronics, 2018, 54, 36-51.	3.3	32
165	Identification of Operating Parameters Most Strongly Influencing the Jetting Performance in a Piezoelectric Actuator-Driven Dispenser. Applied Sciences (Switzerland), 2018, 8, 243.	2.5	10
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