Seung Bok Choi

List of Publications by Year
in descending order

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	A HYSTERESIS MODEL FOR THE FIELD-DEPENDENT DAMPING FORCE OF A MAGNETORHEOLOGICAL DAMPER. Journal of Sound and Vibration, 2001, 245, 375-383.	3.9	409
2	Vibration Control of a MR Seat Damper for Commercial Vehicles. Journal of Intelligent Material Systems and Structures, 2000, 11, 936-944.	2.5	223
3	A time-varying sliding surface for fast and robust tracking control of second-order uncertain systems. Automatica, 1994, 30, 899-904.	5.0	211
4	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
5	Geometry optimization of MR valves constrained in a specific volume using the finite element method. Smart Materials and Structures, 2007, 16, 2242-2252.	3.5	171
6	Control and Response Characteristics of a Magneto-Rheological Fluid Damper for Passenger Vehicles. Journal of Intelligent Material Systems and Structures, 2000, 11, 80-87.	2.5	157
7	Vibration control of electrorheological seat suspension with human-body model using sliding mode control. Journal of Sound and Vibration, 2007, 303, 391-404.	3.9	141
8	H8 Control Performance of a Full-Vehicle Suspension Featuring Magnetorheological Dampers. Vehicle System Dynamics, 2002, 38, 341-360.	3.7	126
9	Cr_2O_3 nanoparticle-functionalized WO_3 nanorods for ethanol gas sensors. Applied Surface Science, 2018, 432, 241-249.	6.1	115
10	Analytical and experimental validation of a nondimensional Bingham model for mixed-mode magnetorheological dampers. Journal of Sound and Vibration, 2008, 312, 399-417.	3.9	112
11	Human simulated intelligent control of vehicle suspension system with MR dampers. Journal of Sound and Vibration, 2009, 319, 753-767.	3.9	112
12	Control characteristics of a continuously variable ER damper. Mechatronics, 1998, 8, 143-161.	3.3	108
13	Moving switching surfaces for robust control of second-order variable structure systems. International Journal of Control, 1993, 58, 229-245.	1.9	107
14	Optimal design of MR shock absorber and application to vehicle suspension. Smart Materials and Structures, 2009, 18, 035012.	3.5	106
15	State of the art of control schemes for smart systems featuring magneto-rheological materials. Smart Materials and Structures, 2016, 25, 043001.	3.5	103
16	Optimal design of an automotive magnetorheological brake considering geometric dimensions and zero-field friction heat. Smart Materials and Structures, 2010, 19, 115024.	3.5	102
17	A magnification device for precision mechanisms featuring piezoactuators and flexure hinges: Design and experimental validation. Mechanism and Machine Theory, 2007, 42, 1184-1198.	4.5	94
18	Optimal design of magnetorheological valves via a finite element method considering control energy and a time constant. Smart Materials and Structures, 2008, 17, 025024.	3.5	94

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19	Magnetorheological dampers in shear mode. Smart Materials and Structures, 2008, 17, 015022.	3.5	94
20	Optimal design of a vehicle magnetorheological damper considering the damping force and dynamic range. Smart Materials and Structures, 2009, 18, 015013.	3.5	94
21	Position control of a two-link flexible manipulator featuring piezoelectric actuators and sensors. Mechatronics, 2001, 11, 707-729.	3.3	92
22	Vibration Control of a MR Seat Damper for Commercial Vehicles. Journal of Intelligent Material Systems and Structures, 2000, 11, 936-944.	2.5	90
23	Control and Response Characteristics of a Magneto-Rheological Fluid Damper for Passenger Vehicles. Journal of Intelligent Material Systems and Structures, 2000, 11, 80-87.	2.5	88
24	Constitutive models of electrorheological and magnetorheological fluids using viscometers. Smart Materials and Structures, 2005, 14, 1025-1036.	3.5	84
25	Optimal control of structural vibrations using a mixed-mode magnetorheological fluid mount. International Journal of Mechanical Sciences, 2008, 50, 559-568.	6.7	84
26	Field test results of a semi-active ER suspension system associated with skyhook controller. Mechatronics, 2001, 11, 345-353.	3.3	79
27	A hybrid clustering based fuzzy structure for vibration control â€“ Part 2: An application to semi-active vehicle seat-suspension system. Mechanical Systems and Signal Processing, 2015, 56-57, 288-301.	8.0	79
28	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
29	Force tracking control of a flexible gripper featuring shape memory alloy actuators. Mechatronics, 2001, 11, 677-690.	3.3	77
30	Antilock Brake System With a Continuous Wheel Slip Control to Maximize the Braking Performance and the Ride Quality. IEEE Transactions on Control Systems Technology, 2008, 16, 996-1003.	5.2	75
31	Vibration control of smart hull structure with optimally placed piezoelectric composite actuators. International Journal of Mechanical Sciences, 2011, 53, 647-659.	6.7	75
32	Optimal design of a novel hybrid MR brake for motorcycles considering axial and radial magnetic flux. Smart Materials and Structures, 2012, 21, 055003.	3.5	75
33	Comparison of Field-Controlled Characteristics between ER and MR Clutches. Journal of Intelligent Material Systems and Structures, 1999, 10, 615-619.	2.5	74
34	Integrated control on MR vehicle suspension system associated with braking and steering control. Vehicle System Dynamics, 2011, 49, 361-380.	3.7	73
35	Selection of magnetorheological brake types via optimal design considering maximum torque and constrained volume. Smart Materials and Structures, 2012, 21, 015012.	3.5	73
36	A New Generation of Innovative Ultra-Advanced Intelligent Composite Materials Featuring Electro-Rheological Fluids: An Experimental Investigation. Journal of Composite Materials, 1989, 23, 1232-1255.	2.4	70

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37	An investigation on piezoelectric energy harvesting for MEMS power sources. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2005, 219, 429-436.	2.1	69
38	The Field-Dependent Rheological Properties of Magnetorheological Grease Based on Carbonyl-Iron-Particles. Smart Materials and Structures, 2016, 25, 095043.	3.5	69
39	Selective Oxidizing Gas Sensing and Dominant Sensing Mechanism of <i>n</i>-CaO-Decorated <i>n</i>-ZnO Nanorod Sensors. ACS Applied Materials & Interfaces, 2017, 9, 9975-9985.	8.0	68
40	A fuzzy-sliding mode controller for robust tracking of robotic manipulators. Mechatronics, 1997, 7, 199-216.	3.3	67
41	Fine motion control of a moving stage using a piezoactuator associated with a displacement amplifier. Smart Materials and Structures, 2005, 14, 222-230.	3.5	65
42	Sliding mode control of vibration in a single-link flexible arm with parameter variations. Journal of Sound and Vibration, 1995, 179, 737-748.	3.9	64
43	Magnetorheological Isolators Using Multiple Fluid Modes. Journal of Intelligent Material Systems and Structures, 2007, 18, 1143-1148.	2.5	64
44	A low sedimentation magnetorheological fluid based on plate-like iron particles, and verification using a damper test. Smart Materials and Structures, 2014, 23, 027001.	3.5	62
45	Synergistic effects of codecoration of oxide nanoparticles on the gas sensing performance of In2O3 nanorods. Sensors and Actuators B: Chemical, 2016, 227, 591-599.	7.8	62
46	Vibration control of a passenger vehicle featuring magnetorheological engine mounts. International Journal of Vehicle Design, 2003, 33, 2.	0.3	61
47	Design and control of a prosthetic leg for above-knee amputees operated in semi-active and active modes. Smart Materials and Structures, 2016, 25, 085009.	3.5	60
48	A hybrid inchworm linear motor. Mechatronics, 2002, 12, 525-542.	3.3	59
49	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
50	Moving sliding surfaces for high-order variable structure systems. International Journal of Control, 1999, 72, 960-970.	1.9	58
51	Vibration control of an electrorheological fluid-based suspension system with an energy regenerative mechanism. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2009, 223, 459-469.	1.9	58
52	Magnetoresistance Characteristics of Magnetorheological Gel under a Magnetic Field. Industrial & Engineering Chemistry Research, 2014, 53, 4704-4710.	3.7	58
53	New shunting parameter tuning method for piezoelectric damping based on measured electrical impedance. Smart Materials and Structures, 2000, 9, 868-877.	3.5	57
54	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

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55	Force Tracking Control of a Flexible Gripper Driven by Piezoceramic Actuators. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1997, 119, 439-446.	1.6	56
56	Design and vibration control of military vehicle suspension system using magnetorheological damper and disc spring. Smart Materials and Structures, 2013, 22, 065006.	3.5	56
57	Non-dimensional analysis and design of a magnetorheological damper. Journal of Sound and Vibration, 2005, 288, 847-863.	3.9	55
58	H2S gas sensing properties of Fe2O3 nanoparticle-decorated NiO nanoplate sensors. Surface and Coatings Technology, 2016, 307, 1088-1095.	4.8	55
59	MR seat suspension for vibration control of a commercial vehicle. International Journal of Vehicle Design, 2003, 31, 202.	0.3	54
60	Vibration Control of a Structural System Using Magneto-Rheological Fluid Mount. Journal of Intelligent Material Systems and Structures, 2005, 16, 931-936.	2.5	54
61	Vibration control of magnetorheological damper system subjected to parameter variations. International Journal of Vehicle Design, 2008, 46, 94.	0.3	53
62	Vibration control of a flexible beam using shape memory alloy actuators. Journal of Guidance, Control, and Dynamics, 1996, 19, 1178-1180.	2.8	52
63	Controllable fabrication of silica encapsulated soft magnetic microspheres with enhanced oxidation-resistance and their rheology under magnetic field. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 403, 133-138.	4.7	52
64	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
65	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
66	Moving Sliding Surfaces for Fast Tracking Control of Second-Order Dynamical Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1994, 116, 154-158.	1.6	50
67	Force Feedback Control of a Medical Haptic Master using an Electrorheological Fluid. Journal of Intelligent Material Systems and Structures, 2007, 18, 1149-1154.	2.5	50
68	Vibration control of vehicle ER suspension system using fuzzy moving sliding mode controller. Journal of Sound and Vibration, 2008, 311, 1004-1019.	3.9	50
69	An analytical method for optimal design of MR valve structures. Smart Materials and Structures, 2009, 18, 095032.	3.5	50
70	Vibration control of flexible linkage mechanisms using piezoelectric films. Mechanism and Machine Theory, 1994, 29, 535-546.	4.5	49
71	A hybrid actuator scheme for robust position control of a flexible single-link manipulator. Journal of Field Robotics, 1996, 13, 359-370.	0.7	49
72	Active Vibration Control of Intelligent Composite Laminate Structures Incorporating an Electro-Rheological Fluid. Journal of Intelligent Material Systems and Structures, 1996, 7, 411-419.	2.5	49

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73	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
74	Vibration and Position Tracking Control of a Flexible Beam Using SMA Wire Actuators. JVC/Journal of Vibration and Control, 2009, 15, 263-281.	2.6	48
75	An Approach for Hysteresis Modeling Based on Shape Function and Memory Mechanism. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1270-1278.	5.8	48
76	Material Characterizations of Gr-Based Magnetorheological Elastomer for Possible Sensor Applications: Rheological and Resistivity Properties. Materials, 2019, 12, 391.	2.9	48
77	Design and novel type of a magnetorheological damper featuring piston bypass hole. Smart Materials and Structures, 2015, 24, 035013.	3.5	47
78	Hydrogen sensing properties and mechanism of NiO-Nb2O5 composite nanoparticle-based electrical gas sensors. Ceramics International, 2017, 43, 5247-5254.	4.8	47
79	Optimal design of magnetorheological fluid-based dampers for front-loaded washing machines. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 294-306.	2.1	46
80	Effects of multiwall carbon nanotubes on viscoelastic properties of magnetorheological elastomers. Smart Materials and Structures, 2016, 25, 077001.	3.5	46
81	Constitutive models of magnetorheological fluids having temperature-dependent prediction parameter. Smart Materials and Structures, 2018, 27, 095001.	3.5	46
82	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
83	Optimal design of high damping force engine mount featuring MR valve structure with both annular and radial flow paths. Smart Materials and Structures, 2013, 22, 115024.	3.5	43
84	Active Vibration Control of a Cantilevered Beam Containing an Electro-Rheological Fluid. Journal of Sound and Vibration, 1994, 172, 428-432.	3.9	42
85	Vibration Control of an ER Seat Suspension for a Commercial Vehicle. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2003, 125, 60-68.	1.6	42
86	Wear and Friction Characteristics of Magnetorheological Fluid under Magnetic Field Activation. Tribology Transactions, 2011, 54, 616-624.	2.0	42
87	Plate-like iron particles based bidisperse magnetorheological fluid. Journal of Applied Physics, 2013, 114, .	2.5	42
88	A Novel Adaptive PID Controller with Application to Vibration Control of a Semi-Active Vehicle Seat Suspension. Applied Sciences (Switzerland), 2017, 7, 1055.	2.5	42
89	Vibration Control of a Flexible Structure Using ER Dampers. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 134-138.	1.6	41
90	A magneto-rheological fluid mount featuring squeeze mode: analysis and testing. Smart Materials and Structures, 2016, 25, 055002.	3.5	41

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91	Hâˆž control of electrorheological suspension system subjected to parameter uncertainties. Mechatronics, 2003, 13, 639-657.	3.3	40
92	Material Characterization of a Magnetorheological Fluid Subjected to Long-Term Operation in Damper. Materials, 2018, 11, 2195.	2.9	40
93	Rheological Parameter Estimation for a Ferrous Nanoparticle-based Magnetorheological Fluid using Genetic Algorithms. Journal of Intelligent Material Systems and Structures, 2006, 17, 261-269.	2.5	39
94	A comparison of field-dependent rheological properties between spherical and plate-like carbonyl iron particles-based magneto-rheological fluids. Smart Materials and Structures, 2016, 25, 095025.	3.5	39
95	Quantitative feedback theory control of a single-link flexible manipulator featuring piezoelectric actuator and sensor. Smart Materials and Structures, 1999, 8, 338-349.	3.5	38
96	A new type of piezostack-driven jetting dispenser for semiconductor electronic packaging: modeling and control. Smart Materials and Structures, 2008, 17, 015033.	3.5	38
97	A new approach to magnetic circuit analysis and its application to the optimal design of a bi-directional magnetorheological brake. Smart Materials and Structures, 2011, 20, 125003.	3.5	38
98	The influence of particle size on the rheological properties of plate-like iron particle based magnetorheological fluids. Smart Materials and Structures, 2015, 24, 015004.	3.5	38
99	Magnetorheological Fluid Based Devices Reported in 2013â€“2018: Mini-Review and Comment on Structural Configurations. Frontiers in Materials, 2019, 6, .	2.4	38
100	Interaction of active and passive vibration control of laminated composite beams with piezoceramic sensors/actuators. Materials & Design, 2002, 23, 277-286.	5.1	37
101	Vibration control of a frame structure using electro-rheological fluid mounts. International Journal of Mechanical Sciences, 2002, 44, 2027-2045.	6.7	37
102	Vibration control of a flexible beam structure using squeeze-mode ER mount. Journal of Sound and Vibration, 2004, 273, 185-199.	3.9	37
103	Frontal Crash Mitigation using MR Impact Damper for Controllable Bumper. Journal of Intelligent Material Systems and Structures, 2007, 18, 1211-1215.	2.5	37
104	Feedback control of tension in a moving tape using an er brake actuator. Mechatronics, 1997, 7, 53-66.	3.3	36
105	Vibration Isolation of Structural Systems Using Squeeze Mode ER Mounts. Journal of Intelligent Material Systems and Structures, 2002, 13, 421-424.	2.5	36
106	Vibration control of a semi-active railway vehicle suspension with magneto-rheological dampers. Advances in Mechanical Engineering, 2016, 8, 168781401664363.	1.6	36
107	Control of Landing Efficiency of an Aircraft Landing Gear System With Magnetorheological Dampers. Journal of Aircraft, 2019, 56, 1980-1986.	2.4	36
108	Analysis of a Short Squeeze-Film Damper Operating with Electrorheological Fluids. Tribology Transactions, 1995, 38, 857-862.	2.0	35

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109	An analytical approach to optimally design of electrorheological fluid damper for vehicle suspension system. Meccanica, 2012, 47, 1633-1647.	2.0	35
110	Ethanol sensing properties of networked In2O3 nanorods decorated with Cr2O3-nanoparticles. Ceramics International, 2015, 41, 9823-9827.	4.8	35
111	Design of a new adaptive fuzzy controller and its application to vibration control of a vehicle seat installed with an MR damper. Smart Materials and Structures, 2015, 24, 085012.	3.5	35
112	Dynamic modeling of an electrorheological damper considering the unsteady behavior of electrorheological fluid flow. Smart Materials and Structures, 2009, 18, 055016.	3.5	34
113	A new vibration isolation bed stage with magnetorheological dampers for ambulance vehicles. Smart Materials and Structures, 2015, 24, 017001.	3.5	34
114	Rheological properties of isotropic magnetorheological elastomers featuring an epoxidized natural rubber. Smart Materials and Structures, 2016, 25, 107001.	3.5	34
115	A new tactile device using magneto-rheological sponge cells for medical applications: Experimental investigation. Sensors and Actuators A: Physical, 2016, 239, 61-69.	4.1	34
116	The field-dependent complex modulus of magnetorheological elastomers consisting of sucrose acetate isobutyrate ester. Journal of Intelligent Material Systems and Structures, 2017, 28, 1993-2004.	2.5	34
117	A hydro-mechanical model for hysteretic damping force prediction of ER damper: experimental verification. Journal of Sound and Vibration, 2005, 285, 1180-1188.	3.9	33
118	A ride quality evaluation of a semi-active railway vehicle suspension system with MR damper: Railway field tests. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2017, 231, 306-316.	2.0	33
119	A novel type of tunable magnetorheological dampers operated by permanent magnets. Sensors and Actuators A: Physical, 2017, 255, 104-117.	4.1	33
120	State of the art of medical devices featuring smart electro-rheological and magneto-rheological fluids. Journal of King Saud University - Science, 2017, 29, 390-400.	3.5	33
121	Design of a New Magnetorheological Damper Based on Passive Oleo-Pneumatic Landing Gear. Journal of Aircraft, 2018, 55, 2510-2520.	2.4	33
122	Position tracking control of an optical pick-up device using piezoceramic actuator. Mechatronics, 2001, 11, 691-705.	3.3	32
123	Vibration control of a flexible structure using a hybrid mount. International Journal of Mechanical Sciences, 2004, 46, 143-157.	6.7	32
124	A Unifying Perspective on the Quasi-steady Analysis of Magnetorheological Dampers. Journal of Intelligent Material Systems and Structures, 2008, 19, 959-976.	2.5	32
125	A new approach for dynamic modeling of an electrorheological damper using a lumped parameter method. Smart Materials and Structures, 2009, 18, 115020.	3.5	32
126	Vibration Control of a Cylindrical Shell Structure Using Macro Fiber Composite Actuators. Mechanics Based Design of Structures and Machines, 2011, 39, 491-506.	4.7	32

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127	Optimal design and selection of magneto-rheological brake types based on braking torque and mass. Smart Materials and Structures, 2015, 24, 067001.	3.5	32
128	Vibration control of a vehicleâ€™s seat suspension featuring a magnetorheological damper based on a new adaptive fuzzy sliding-mode controller. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2016, 230, 437-458.	1.9	32
129	Implementation of functionalized multiwall carbon nanotubes on magnetorheological elastomer. Journal of Materials Science, 2018, 53, 10122-10134.	3.7	32
130	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
131	Role of Additives in Enhancing the Rheological Properties of Magnetorheological Solids: A Review. Advanced Engineering Materials, 2019, 21, 1800696.	3.5	32
132	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
133	PERFORMANCE ANALYSIS OF AN ENGINE MOUNT FEATURING ER FLUIDS AND PIEZOACTUATORS. International Journal of Modern Physics B, 1996, 10, 3143-3157.	2.0	31
134	Comparison of damping force models for an electrorheological fluid damper. International Journal of Vehicle Design, 2003, 33, 17.	0.3	31
135	DESIGN AND TESTING OF A COMPACT MAGNETORHEOLOGICAL DAMPER FOR HIGH IMPULSIVE LOADS. International Journal of Modern Physics B, 2005, 19, 1549-1555.	2.0	31
136	Damping force control of a vehicle MR damper using a Preisach hysteretic compensator. Smart Materials and Structures, 2009, 18, 074008.	3.5	31
137	Silica-coated carbonyl iron microsphere based magnetorheological fluid and its damping force characteristics. Smart Materials and Structures, 2013, 22, 065022.	3.5	31
138	Rheological properties of bi-dispersed magnetorheological fluids based on plate-like iron particles with application to a small-sized damper. Journal of Applied Physics, 2014, 115, .	2.5	31
139	Optimal design of disc-type magneto-rheological brake for mid-sized motorcycle: experimental evaluation. Smart Materials and Structures, 2015, 24, 085009.	3.5	31
140	An electrorheological spherical joint actuator for a haptic master with application to robot-assisted cutting surgery. Sensors and Actuators A: Physical, 2016, 249, 163-171.	4.1	31
141	A theoretical model for the field-dependent conductivity of magneto-rheological gels and experimental verification. Sensors and Actuators A: Physical, 2016, 245, 127-134.	4.1	31
142	An enhancement of mechanical and rheological properties of magnetorheological elastomer with multiwall carbon nanotubes. Journal of Intelligent Material Systems and Structures, 2017, 28, 3127-3138.	2.5	31
143	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
144	Position control of a parallel link manipulator using electro-rheological valve actuators. Mechatronics, 2001, 11, 157-181.	3.3	30

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145	Discrete-time fuzzy sliding mode control for a vehicle suspension system featuring an electrorheological fluid damper. Smart Materials and Structures, 2007, 16, 798-808.	3.5	30
146	Hysteretic Behavior of Magnetorheological Fluid and Identification Using Preisach Model. Journal of Intelligent Material Systems and Structures, 2007, 18, 973-981.	2.5	30
147	Design and performance evaluation of a new jetting dispenser system using two piezostack actuators. Smart Materials and Structures, 2015, 24, 015020.	3.5	30
148	A new adaptive hybrid controller for vibration control of a vehicle seat suspension featuring MR damper. JVC/Journal of Vibration and Control, 2017, 23, 3392-3413.	2.6	30
149	Recurrent Mechanism and Impulse Noise Filter for Establishing ANFIS. IEEE Transactions on Fuzzy Systems, 2018, 26, 985-997.	9.8	30
150	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
151	The field-dependent rheological properties of plate-like carbonyl iron particle-based magnetorheological elastomers. Results in Physics, 2019, 12, 2146-2154.	4.1	30
152	A Concentric Design of a Bypass Magnetorheological Fluid Damper with a Serpentine Flux Valve. Actuators, 2020, 9, 16.	2.3	30
153	Fuzzy Neural Network Control for Vehicle Stability Utilizing Magnetorheological Suspension System. Journal of Intelligent Material Systems and Structures, 2009, 20, 457-466.	2.5	29
154	Design of a 4-DOF MR haptic master for application to robot surgery: virtual environment work. Smart Materials and Structures, 2014, 23, 095032.	3.5	29
155	Position control of an er valve-cylinder system via neural network controller. Mechatronics, 1997, 7, 37-52.	3.3	28
156	Vibration and Position Tracking Control of Piezoceramic-Based Smart Structures Via QFT. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 27-33.	1.6	28
157	Sequential changes in synaptic vesicle pools and endosome-like organelles during depolarization near the active zone of central nerve terminals. Neuroscience, 2002, 109, 195-206.	2.3	28
158	Vibration control of a rotating cantilevered beam using piezoactuators: experimental work. Journal of Sound and Vibration, 2004, 277, 436-442.	3.9	28
159	Tribological Characteristics Modification of Magnetorheological Fluid. Journal of Tribology, 2011, 133, .	1.9	28
160	A new method for beam-damage-diagnosis using adaptive fuzzy neural structure and wavelet analysis. Mechanical Systems and Signal Processing, 2013, 39, 181-194.	8.0	28
161	Design of a new adaptive fuzzy controller and its implementation for the damping force control of a magnetorheological damper. Smart Materials and Structures, 2014, 23, 065012.	3.5	28
162	Hybrid clustering based fuzzy structure for vibration control â€“ Part 1: A novel algorithm for building neuro-fuzzy system. Mechanical Systems and Signal Processing, 2015, 50-51, 510-525.	8.0	28

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163	An adaptive fuzzy sliding mode control of magneto-rheological seat suspension with human body model. Journal of Intelligent Material Systems and Structures, 2016, 27, 925-934.	2.5	28
164	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
165	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
166	Compliant control of a two-link flexible manipulator featuring piezoelectric actuators. Mechanism and Machine Theory, 2001, 36, 411-424.	4.5	27
167	Passive and active damping characteristics of smart electro-rheological composite beams. Smart Materials and Structures, 2001, 10, 724-729.	3.5	27
168	Control of linear motor machine tool feed drives for end milling: Robust MIMO approach. Mechatronics, 2005, 15, 1207-1224.	3.3	27
169	Effect of an electromagnetically optimized magnetorheological damper on vehicle suspension control performance. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2008, 222, 2307-2319.	1.9	27
170	A new fuzzy sliding mode controller for vibration control systems using integrated-structure smart dampers. Smart Materials and Structures, 2017, 26, 045038.	3.5	27
171	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
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