

Norman M Wereley

List of Publications by Year in descending order

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330
papers

9,273
citations

47409

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71088

80
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335
all docs

335
docs citations

335
times ranked

4087
citing authors

#	ARTICLE	IF	CITATIONS
1	Controllable Stress of Magnetorheological Fluid Elastomeric Encapsulations. IEEE Transactions on Magnetics, 2022, 58, 1-10.	1.2	2
2	Contractile Pneumatic Artificial Muscle Generates Extension by Actuating an Integrated Pushrod. , 2022, , 101-127.		0
3	Magnetic Particle Reinforced Elastomer Composites for Additive Manufacturing. IEEE Transactions on Magnetics, 2022, 58, 1-5.	1.2	3
4	Synthesis and rheological characteristics of high viscosity linear polysiloxane carrier fluid-based magnetorheological fluids. Smart Materials and Structures, 2022, 31, 015041.	1.8	3
5	The effect of mesocarbon microbeads on magnetorheological fluid behavior. Journal of Intelligent Material Systems and Structures, 2022, 33, 619-628.	1.4	3
6	Encapsulations of Magnetorheological Fluids Within 3-D Printed Elastomeric Cellular Structures. IEEE Transactions on Magnetics, 2022, 58, 1-5.	1.2	4
7	Adaptively tunable magnetorheological elastomer-based vibration absorber for a propeller aircraft seat. AIP Advances, 2022, 12, .	0.6	8
8	Bending Properties of an Extensile Fluidic Artificial Muscle. Frontiers in Robotics and AI, 2022, 9, 804095.	2.0	0
9	Vibration Isolation Performance of an Adaptive Magnetorheological Elastomer-Based Dynamic Vibration Absorber. Actuators, 2022, 11, 157.	1.2	5
10	Successful Implementation of Unmanned Aircraft Use for Delivery of a Human Organ for Transplantation. Annals of Surgery, 2021, 274, e282-e288.	2.1	34
11	Adaptive magnetorheological energy absorber control method for drop-induced shock mitigation. Journal of Intelligent Material Systems and Structures, 2021, 32, 449-461.	1.4	16
12	Characterization and nonlinear models of bending extensile/contractile pneumatic artificial muscles. Smart Materials and Structures, 2021, 30, 025024.	1.8	5
13	Characterization and Analysis of Extensile Fluidic Artificial Muscles. Actuators, 2021, 10, 26.	1.2	9
14	Optimal control of drop-induced shock mitigation using magnetorheological energy absorbers considering quadratic damping. Journal of Intelligent Material Systems and Structures, 2021, 32, 1504-1517.	1.4	4
15	Influence of hydraulic versus pneumatic working fluids on quasi-static force response of fluidic artificial muscles. Journal of Intelligent Material Systems and Structures, 2021, 32, 385-396.	1.4	2
16	Photogrammetric Measurement and Analysis of the Shape Profile of Pneumatic Artificial Muscles. Actuators, 2021, 10, 72.	1.2	4
17	Vibration Suppression of a Composite Prosthetic Foot Using Piezoelectric Shunt Damping: Implications to Vibration-Induced Cumulative Trauma. IEEE Transactions on Biomedical Engineering, 2021, 68, 2741-2751.	2.5	5
18	Integrated Shock Absorber With Both Tunable Inertance and Damping. Frontiers in Materials, 2020, 7, .	1.2	15

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19	Novel Bending and Helical Extensile/Contractile Pneumatic Artificial Muscles Inspired by Elephant Trunk. <i>Soft Robotics</i> , 2020, 7, 597-614.	4.6	90
20	Magnetorheological damper design to improve vibration mitigation under a volume constraint. <i>Smart Materials and Structures</i> , 2019, 28, 114003.	1.8	23
21	Monitoring sedimentation of magnetorheological fluids using a vertical axis monitoring system with a low aspect ratio sensor coil. <i>Smart Materials and Structures</i> , 2019, 28, 025039.	1.8	14
22	Process parameter effects on cellular structured materials using hollow glass spheres. <i>Materials and Manufacturing Processes</i> , 2019, 34, 1026-1034.	2.7	5
23	Hyperelastic analysis of pneumatic artificial muscle with filament-wound sleeve and coated outer layer. <i>Smart Materials and Structures</i> , 2019, 28, 105019.	1.8	11
24	The final frontier? Exploring organ transportation by drone. <i>American Journal of Transplantation</i> , 2019, 19, 962-964.	2.6	33
25	Controllability of magnetorheological shock absorber: I. Insights, modeling and simulation. <i>Smart Materials and Structures</i> , 2019, 28, 015022.	1.8	30
26	Performance of a magnetorheological fluid-based robotic end effector. <i>Smart Materials and Structures</i> , 2019, 28, 035030.	1.8	25
27	Strain-dependent dynamic compressive properties of magnetorheological elastomeric foams. <i>AIP Advances</i> , 2018, 8, .	0.6	10
28	Gripping characteristics of an electromagnetically activated magnetorheological fluid-based gripper. <i>AIP Advances</i> , 2018, 8, .	0.6	27
29	An Initial Investigation of Unmanned Aircraft Systems (UAS) and Real-Time Organ Status Measurement for Transporting Human Organs. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2018, 6, 1-7.	2.2	50
30	Magnetostrictive whisker sensor application of carbon fiber-alfenol composites. <i>Smart Materials and Structures</i> , 2018, 27, 105010.	1.8	9
31	Theoretical and experimental investigations of a magnetostrictive electro-hydrostatic actuator. <i>Smart Materials and Structures</i> , 2018, 27, 105043.	1.8	11
32	Improving sedimentation stability of magnetorheological fluids using an organic molecular particle coating. <i>Smart Materials and Structures</i> , 2018, 27, 075030.	1.8	27
33	Chordwise implementation of pneumatic artificial muscles to actuate a trailing edge flap. <i>Smart Materials and Structures</i> , 2018, 27, 075040.	1.8	3
34	Structural health monitoring of a composite F/A-18 wing section using a sparse piezoelectric transducer array. , 2018, , .		0
35	State observation-based control algorithm for dynamic vibration absorbing systems featuring magnetorheological elastomers: Principle and analysis. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 2539-2556.	1.4	27
36	Vertical Axis Inductance Monitoring System to Measure Stratification in a Column of Magnetorheological Fluid. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-5.	1.2	11

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37	Comparison of contractile and extensile pneumatic artificial muscles. Smart Materials and Structures, 2017, 26, 095034.	1.8	19
38	Using Mason number to predict MR damper performance from limited test data. AIP Advances, 2017, 7, 056725.	0.6	7
39	Control and Analysis of a Magnetorheological Energy Absorber for both Shock and Vibration. International Journal of Acoustics and Vibrations, 2017, 22, .	0.3	5
40	Testing and Modeling of Magnetorheological Vibration Isolators. , 2017, , 147-156.		0
41	Analysis and Control of a Magnetorheological Landing Gear System for a Helicopter. Journal of the American Helicopter Society, 2016, 61, 1-8.	0.5	43
42	Powering a Lower Limb Exoskeleton Using Pneumatic Artificial Muscles. , 2016, , .		2
43	Variable recruitment in bundles of miniature pneumatic artificial muscles. Bioinspiration and Biomimetics, 2016, 11, 056014.	1.5	13
44	Magnetorheological energy absorber with dual concentric annular valves. Journal of Intelligent Material Systems and Structures, 2016, 27, 944-958.	1.4	20
45	Long term stability of magnetorheological fluids using high viscosity linear polysiloxane carrier fluids. Smart Materials and Structures, 2016, 25, 075006.	1.8	33
46	Measuring the sedimentation rate in a magnetorheological fluid column via thermal conductivity monitoring. Smart Materials and Structures, 2016, 25, 055007.	1.8	18
47	Comparison of contractile and extensile pneumatic artificial muscles. , 2016, , .		12
48	Nonlinear modeling of adaptive magnetorheological landing gear dampers under impact conditions. Smart Materials and Structures, 2016, 25, 115011.	1.8	17
49	Research on hysteresis loop considering the prestress effect and electrical input dynamics for a giant magnetostrictive actuator. Smart Materials and Structures, 2016, 25, 085030.	1.8	22
50	Analysis of impact loads in a magnetorheological energy absorber using a Bingham plastic model with refined minor loss factors accounting for turbulent transition. Meccanica, 2016, 51, 3043-3054.	1.2	12
51	Nonlinear Control of Robotic Manipulators Driven by Pneumatic Artificial Muscles. IEEE/ASME Transactions on Mechatronics, 2016, 21, 55-68.	3.7	78
52	Experimental Characterization of Magnetorheological Fluids Using a Custom Searle Magnetorheometer: Influence of the Rotor Shape. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	7
53	Testing and analysis of magnetorheological fluid sedimentation in a column using a vertical axis inductance monitoring system. Smart Materials and Structures, 2016, 25, 04LT01.	1.8	28
54	Adaptive Control and Actuation System Development for Biomimetic Morphing. , 2016, , .		4

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55	Design of frequency-tunable mesh washer isolators using shape memory alloy actuators. Journal of Intelligent Material Systems and Structures, 2016, 27, 1265-1280.	1.4	10
56	Drop-Induced Shock Mitigation Using Adaptive Magnetorheological Energy Absorbers Incorporating a Time Lag. Journal of Vibration and Acoustics, Transactions of the ASME, 2015, 137, .	1.0	14
57	Analytical model and stability analysis of the leading edge spar of a passively morphing ornithopter wing. Bioinspiration and Biomimetics, 2015, 10, 065003.	1.5	9
58	Applications of Magnetorheological Technology to Semiactive Vibration Control Systems. Shock and Vibration, 2015, 2015, 1-2.	0.3	2
59	Magnetic Circuit Analyses and Turning Chatter Suppression Based on a Squeeze-Mode Magnetorheological Damping Turning Tool. Shock and Vibration, 2015, 2015, 1-7.	0.3	3
60	Squeeze strengthening of magnetorheological fluids using mixed mode operation. Journal of Applied Physics, 2015, 117, .	1.1	22
61	Development of a Quasi-Static Span-Extending Blade Tip for a Morphing Helicopter Rotor. Journal of Aircraft, 2015, 52, 792-804.	1.7	4
62	Effect of bladder wall thickness on miniature pneumatic artificial muscle performance. Bioinspiration and Biomimetics, 2015, 10, 055006.	1.5	24
63	Nondimensional scaling of magnetorheological rotary shear mode devices using the Mason number. Journal of Magnetism and Magnetic Materials, 2015, 380, 90-97.	1.0	33
64	Influence of Occupant Compliance on a Vertically Stroking Helicopter Crew Seat Suspension. Journal of Aircraft, 2015, 52, 1286-1297.	1.7	9
65	Non-linear quasi-static model of pneumatic artificial muscle actuators. Journal of Intelligent Material Systems and Structures, 2015, 26, 541-553.	1.4	32
66	Closed-loop magnetic separation of nanoparticles on a packed bed of spheres. Journal of Applied Physics, 2015, 117, 17C719.	1.1	10
67	Maximizing semi-active vibration isolation utilizing a magnetorheological damper with an inner bypass configuration. Journal of Applied Physics, 2015, 117, .	1.1	32
68	Rheological characterization of a magnetorheological ferrofluid using iron nitride nanoparticles. Journal of Applied Physics, 2015, 117, 17C747.	1.1	9
69	Characterization of stratification for an opaque highly stable magnetorheological fluid using vertical axis inductance monitoring system. Journal of Applied Physics, 2015, 117, .	1.1	30
70	Scaling temperature dependent rheology of magnetorheological fluids. Journal of Applied Physics, 2015, 117, .	1.1	31
71	Relating Mason number to Bingham number in magnetorheological fluids. Journal of Magnetism and Magnetic Materials, 2015, 380, 98-104.	1.0	65
72	Biodynamic Model of a Seated Occupant Exposed to Intense Impacts. AIAA Journal, 2015, 53, 426-435.	1.5	12

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73	Variable Recruitment Testing of Pneumatic Artificial Muscles for Robotic Manipulators. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1642-1652.	3.7	52
74	Quasi-static nonlinear response of pneumatic artificial muscles for both agonistic and antagonistic actuation modes. Journal of Intelligent Material Systems and Structures, 2015, 26, 796-809.	1.4	12
75	Control of a Heavy-Lift Robotic Manipulator with Pneumatic Artificial Muscles. Actuators, 2014, 3, 41-65.	1.2	14
76	Effects of Surface Modification on the Stability of Suspension and Thermal Conductivity Enhancement of Composite Fe Nanofluids. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	5
77	Hydromechanical Analysis of Fluid-Elastomeric Lag Dampers Including Subzero Temperatures. Journal of Aircraft, 2014, 51, 1056-1061.	1.7	1
78	Conceptual design of rotary magnetostrictive energy harvester. Journal of Applied Physics, 2014, 115, .	1.1	12
79	Mechanism and bias considerations for design of a bi-directional pneumatic artificial muscle actuator. Smart Materials and Structures, 2014, 23, 125039.	1.8	3
80	Contractile Pneumatic Artificial Muscle Configured to Generate Extension. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	0.9	3
81	Experimental validation of a magnetorheological energy absorber design analysis. Journal of Intelligent Material Systems and Structures, 2014, 25, 352-363.	1.4	40
82	Experimental validation of a magnetorheological energy absorber design optimized for shock and impact loads. Smart Materials and Structures, 2014, 23, 125033.	1.8	27
83	Mason Number Analysis of a Magnetorheological Fluid-Based Rotary Energy Absorber. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	5
84	Dynamics of a pneumatic artificial muscle actuation system driving a trailing edge flap. Smart Materials and Structures, 2014, 23, 095014.	1.8	10
85	Magnetorheological impact seat suspensions for ground vehicle crash mitigation. , 2014, , .		10
86	Whirl Testing of a Pneumatic Artificial Muscle Actuation System for a Full-Scale Active Rotor. Journal of the American Helicopter Society, 2014, 59, 1-11.	0.5	5
87	Optimal control of gun recoil in direct fire using magnetorheological absorbers. Smart Materials and Structures, 2014, 23, 055009.	1.8	45
88	Magnetorheology: advances and applications, edited by Norman M. Wereley. International Journal of Smart and Nano Materials, 2014, 5, 33-33.	2.0	5
89	Advanced Kinematic Tailoring for Morphing Aircraft Actuation. AIAA Journal, 2014, 52, 788-798.	1.5	22
90	Performance of magnetorheological fluids beyond the chain based shear limit. Journal of Applied Physics, 2014, 115, .	1.1	9

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91	Advanced magnetorheological damper with a spiral channel bypass valve. Journal of Applied Physics, 2014, 115, .	1.1	22
92	High shear rate flow in a linear stroke magnetorheological energy absorber. Journal of Applied Physics, 2014, 115, 17B533.	1.1	4
93	A fail-safe magnetorheological energy absorber for shock and vibration isolation. Journal of Applied Physics, 2014, 115, .	1.1	24
94	Comparison of monolithic and composite piezoelectric material-based energy harvesting devices. Journal of Intelligent Material Systems and Structures, 2014, 25, 1825-1837.	1.4	11
95	Flow Mode Magnetorheological Dampers with an Eccentric Gap. Advances in Mechanical Engineering, 2014, 6, 931683.	0.8	8
96	Applications of Controllable Smart Fluids to Mechanical Systems. Advances in Mechanical Engineering, 2014, 6, 254864.	0.8	5
97	Effect of Particle Size Distribution on Chain Structures in Magnetorheological Fluids. IEEE Transactions on Magnetics, 2013, 49, 3430-3433.	1.2	41
98	A Novel Concept and Proof of Magnetostrictive Motor. IEEE Transactions on Magnetics, 2013, 49, 3379-3382.	1.2	18
99	Control System Development for Pneumatic Artificial Muscle-Driven Active Rotor Systems. Journal of Guidance, Control, and Dynamics, 2013, 36, 1177-1185.	1.6	9
100	Analysis of a magnetorheological damper incorporating temperature dependence. International Journal of Vehicle Design, 2013, 63, 137.	0.1	22
101	Adaptive magnetorheological shock isolation mounts for drop-induced impacts. Smart Materials and Structures, 2013, 22, 122001.	1.8	26
102	Magnetorheological Damper Utilizing an Inner Bypass for Ground Vehicle Suspensions. IEEE Transactions on Magnetics, 2013, 49, 3422-3425.	1.2	114
103	Analysis and testing of an inner bypass magnetorheological damper for shock and vibration mitigation. , 2013, , .		3
104	Nonlinear analysis of quasi-static response of pneumatic artificial muscles for agonistic and antagonistic actuation modes. , 2013, , .		1
105	Analysis of nonlinear elastic behavior in miniature pneumatic artificial muscles. Smart Materials and Structures, 2013, 22, 014016.	1.8	54
106	Semi-active magnetorheological refueling probe systems for aerial refueling events. Smart Materials and Structures, 2013, 22, 092001.	1.8	3
107	Magnetorheological fluid composites synthesized for helicopter landing gear applications. Journal of Intelligent Material Systems and Structures, 2013, 24, 1043-1048.	1.4	39
108	Nonlinear modeling of magnetorheological energy absorbers under impact conditions. Smart Materials and Structures, 2013, 22, 115015.	1.8	32

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109	Advanced Kinematic Tailoring for Morphing Aircraft Actuation. , 2013, , .		1
110	Rapid Consolidation of Gamma Titanium Aluminide Powders Attrition Milled to Submicron Scale. Materials and Manufacturing Processes, 2013, 28, 1171-1178.	2.7	8
111	CHAPTER 12. Adaptive Magnetorheological Energy Absorbing Mounts for Shock Mitigation. RSC Smart Materials, 2013, , 278-287.	0.1	6
112	CHAPTER 14. Controllable Magnetorheological Damping in Advanced Helicopter Rotors. RSC Smart Materials, 2013, , 307-341.	0.1	2
113	Fatigue life testing of swaged pneumatic artificial muscles as actuators for aerospace applications. Journal of Intelligent Material Systems and Structures, 2012, 23, 327-343.	1.4	47
114	Measurement of Magnetorheological Fluid Properties at Shear Rates of up to 25â€‰000 s ⁻¹ . IEEE Transactions on Magnetics, 2012, 48, 3525-3528.	1.2	27
115	Magnetorheological Fluids Employing Substitution of Nonmagnetic for Magnetic Particles to Increase Yield Stress. IEEE Transactions on Magnetics, 2012, 48, 3764-3767.	1.2	15
116	Hydromechanical Analysis of a Fluid-Elastomeric Lag Damper Incorporating Temperature Effects. Journal of Aircraft, 2012, 49, 1212-1221.	1.7	4
117	Mechanism and Bias Considerations for Design of a Bi-Directional Artificial Muscle Actuator. , 2012, , .		0
118	Model-Based Feedforward Control of a Robotic Manipulator With Pneumatic Artificial Muscles. , 2012, , .		0
119	Parallel Simulation of Transient Magnetorheological Direct Shear Flows Using Millions of Particles. IEEE Transactions on Magnetics, 2012, 48, 3517-3520.	1.2	11
120	A bi-annular-gap magnetorheological energy absorber for shock and vibration mitigation. Proceedings of SPIE, 2012, , .	0.8	5
121	Compact hybrid electrohydraulic actuators using smart materials: A review. Journal of Intelligent Material Systems and Structures, 2012, 23, 597-634.	1.4	49
122	Advances in gamma titanium aluminides and their manufacturing techniques. Progress in Aerospace Sciences, 2012, 55, 1-16.	6.3	425
123	Optimal Control of Gun Recoil Using Magnetorheological Dampers. , 2012, , .		4
124	A Bidirectional-Controllable Magnetorheological Energy Absorber for Shock and Vibration Isolation Systems. , 2012, , .		2
125	Design and testing of a high-specific work actuator using miniature pneumatic artificial muscles. Journal of Intelligent Material Systems and Structures, 2012, 23, 365-378.	1.4	22
126	Adaptive Energy Absorbers for Drop-induced Shock Mitigation. Journal of Intelligent Material Systems and Structures, 2011, 22, 515-519.	1.4	68

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127	Massively Parallel Simulations of Chain Formation and Restructuring Dynamics in a Magnetorheological Fluid. , 2011, , .		5
128	A Constant Stroking Load Regulator for Shock Absorption. , 2011, , .		0
129	MAGNETORHEOLOGICAL FLUIDS AND DAMPERS FOR VIBRATION CONTROL OF THE TIANXINGZHOU BRIDGE. , 2011, , .		1
130	BEHAVIOR OF MR FLUIDS AT HIGH SHEAR RATE. , 2011, , .		1
131	EFFECT OF FE3O4 NANOPARTICLES ON THE PROPERTIES OF BIDISPERSE MAGNETORHEOLOGICAL FLUIDS. , 2011, , .		0
132	SENSITIVITY OF MAGNETORHEOLOGICAL DAMPER BEHAVIOR TO PERTURBATIONS IN TEMPERATURE VIA BOUC -WEN MODEL. , 2011, , .		0
133	High Specific Power Actuators for Robotic Manipulators. Journal of Intelligent Material Systems and Structures, 2011, 22, 1501-1511.	1.4	29
134	Wind Tunnel Testing of a Helicopter Rotor Trailing Edge Flap Actuated via Pneumatic Artificial Muscles. Journal of Intelligent Material Systems and Structures, 2011, 22, 1513-1528.	1.4	41
135	Pneumatic artificial muscles for trailing edge flap actuation: a feasibility study. Smart Materials and Structures, 2011, 20, 105021.	1.8	13
136	Development and Testing of a Span-Extending Morphing Wing. Journal of Intelligent Material Systems and Structures, 2011, 22, 879-890.	1.4	71
137	Demonstration of Uniform Cantilevered Beam Bending Vibration Using a Pair of Piezoelectric Actuators. Journal of Intelligent Material Systems and Structures, 2011, 22, 307-316.	1.4	12
138	Cramerâ€™Rao Bound Development for Linear Time Periodic Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2011, 133, .	0.9	1
139	BEHAVIOR OF MR FLUIDS AT HIGH SHEAR RATE. International Journal of Modern Physics B, 2011, 25, 979-985.	1.0	12
140	Control Evaluations of Semiactive Fluid-Elastomeric Helicopter Lag Damper. Journal of Guidance, Control, and Dynamics, 2011, 34, 1143-1156.	1.6	7
141	Characterization of Rapidly Consolidated Titanium Diboride. Journal of Engineering Materials and Technology, Transactions of the ASME, 2011, 133, .	0.8	4
142	ADAPTIVE ENERGY ABSORBERS FOR DROP-INDUCED SHOCK MITIGATION. , 2011, , .		0
143	IMPACT OF MORPHOLOGY AND PRE-STRAIN ON DYNAMIC STIFFNESS AND DAMPING OF CO-BASED MAGNETORHEOLOGICAL ELASTOMERIC COMPOSITES. , 2011, , .		2
144	Experimental Validation of a Hybrid Electrostrictive Hydraulic Actuator Analysis. Journal of Vibration and Acoustics, Transactions of the ASME, 2010, 132, .	1.0	25

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145	Linking Porosity and Tortuosity to the Performance of a Magneto-Rheological Damper Employing a Valve Filled With Porous Media. IEEE Transactions on Magnetics, 2010, 46, 2156-2159.	1.2	14
146	Stiffness and Damping in Fe, Co, and Ni Nanowire-Based Magnetorheological Elastomeric Composites. IEEE Transactions on Magnetics, 2010, 46, 2275-2277.	1.2	60
147	High Specific Power Actuators for Robotic Manipulators. , 2010, , .		1
148	Adaptive Control of a Sliding Seat Using Magnetorheological Energy Absorbers. , 2010, , .		1
149	Design and testing of a magnetorheological damper to control both vibration and shock loads for a vehicle crew seat. , 2010, , .		3
150	Adaptive Snubber-Type Magnetorheological Fluid-Elastomeric Helicopter Lag Damper. AIAA Journal, 2010, 48, 598-610.	1.5	13
151	Damping force characteristics of electrorheological shock absorbers with different electrode designs. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2010, 224, 293-304.	1.1	2
152	Experimental characterization of thermal conductance switching in magnetorheological fluids. Journal of Applied Physics, 2010, 107, .	1.1	29
153	Magnetorheology and sedimentation behavior of an aqueous suspension of surface modified carbonyl iron particles. Journal of Applied Physics, 2010, 107, 09B507.	1.1	37
154	Experimental Detection and Quantitative Interrogation of Damage in a Jointed Composite Structure. Journal of Intelligent Material Systems and Structures, 2010, 21, 275-283.	1.4	1
155	Energy Harvesting Devices Using Macro-fiber Composite Materials. Journal of Intelligent Material Systems and Structures, 2010, 21, 647-658.	1.4	63
156	Design and Fabrication of a Passive 1D Morphing Aircraft Skin. Journal of Intelligent Material Systems and Structures, 2010, 21, 1699-1717.	1.4	180
157	Elastic percolation transition in nanowire-based magnetorheological fluids. Applied Physics Letters, 2009, 95, 014102.	1.5	27
158	Development of a Piezohydraulic Active Pitch Link for a Swashplateless Helicopter Rotor. Journal of Aircraft, 2009, 46, 328-331.	1.7	4
159	A design strategy for magnetorheological dampers using porous valves. Journal of Physics: Conference Series, 2009, 149, 012056.	0.3	6
160	A Nonlinear Analytical Model for Magnetorheological Energy Absorbers Under Impact Conditions. , 2009, , .		6
161	Self-Powered Magnetorheological Dampers. Journal of Vibration and Acoustics, Transactions of the ASME, 2009, 131, .	1.0	93
162	Energy Harvesting Utilizing Single Crystal PMN-PT Material and Application to a Self-Powered Accelerometer. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	1.7	24

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163	Unsteady Fluid Flow in Hybrid Hydraulic Actuators. Journal of Intelligent Material Systems and Structures, 2009, 20, 2201-2214.	1.4	7
164	Performance Evaluation of Multi-tier Energy Harvesters Using Macro-fiber Composite Patches. Journal of Intelligent Material Systems and Structures, 2009, 20, 2077-2088.	1.4	39
165	Preparation of composite magnetic particles and aqueous magnetorheological fluids. Smart Materials and Structures, 2009, 18, 085009.	1.8	59
166	Field dependent response of magnetorheological elastomers utilizing spherical Fe particles versus Fe nanowires. Journal of Physics: Conference Series, 2009, 149, 012097.	0.3	15
167	Design, test and model of a hybrid magnetostrictive hydraulic actuator. Smart Materials and Structures, 2009, 18, 085019.	1.8	34
168	Adaptive magnetorheological seat suspension for the expeditionary fighting vehicle. Journal of Physics: Conference Series, 2009, 149, 012054.	0.3	9
169	Dynamic modeling of McKibben pneumatic artificial muscles for antagonistic actuation. , 2009, , .		39
170	Time-Periodic Stability of a Flapping Insect Wing Structure in Hover. Journal of Aircraft, 2009, 46, 450-464.	1.7	16
171	Experimental Characterization and Static Modeling of McKibben Actuators. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	1.7	135
172	Effect of storage and ball milling on the sedimentation and rheology of a novel magnetorheological fluid. Journal of Physics: Conference Series, 2009, 149, 012043.	0.3	4
173	Analytical and experimental validation of a nondimensional Bingham model for mixed-mode magnetorheological dampers. Journal of Sound and Vibration, 2008, 312, 399-417.	2.1	112
174	Hybrid magnetorheological fluidâ€™elastomeric lag dampers for helicopter stability augmentation. Smart Materials and Structures, 2008, 17, 045021.	1.8	56
175	A Physical Basis for Stability in Bimodal Dispersions Including Micrometer-sized Particles and Nanoparticles using Both Linear and Non-linear Models to Describe Yield. Journal of Intelligent Material Systems and Structures, 2008, 19, 1361-1367.	1.4	16
176	Performance Analysis of Magnetorheological Energy Absorbers Under Impact Conditions. , 2008, , .		4
177	Behavior of Magnetorheological Fluids Employing Carrier Fluids Certified for Landing Gear Use. , 2008, , .		0
178	Magnetorheological Energy Absorbers Employing a Valve Filled With Porous Media. , 2008, , .		0
179	Dimorphic magnetorheological fluids: exploiting partial substitution of microspheres by nanowires. Smart Materials and Structures, 2008, 17, 045022.	1.8	87
180	Magnetorheology of submicron diameter iron microwires dispersed in silicone oil. Smart Materials and Structures, 2008, 17, 015028.	1.8	120

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181	Experimental and Theoretical Development of Multiple Fluid Mode Magnetorheological Isolators. Journal of Guidance, Control, and Dynamics, 2008, 31, 449-459.	1.6	27
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