Weihua Li

List of Publications by Year
in descending order

490	18,729	11608	23472
papers	citations	70 h-index	111 g-index

497	497	497	11375
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fundamentals and applications of inertial microfluidics: a review. Lab on A Chip, 2016, 16, 10-34.	3.1	737
2	A state-of-the-art review on magnetorheological elastomer devices. Smart Materials and Structures, 2014, 23, 123001.	1.8	438
3	MR damper and its application for semi-active control of vehicle suspension system. Mechatronics, 2002, 12, 963-973.	2.0	376
4	Design and Experimental Evaluation of a Magnetorheological Brake. International Journal of Advanced Manufacturing Technology, 2003, 21, 508-515.	1.5	309
5	Lab on a chip for continuous-flow magnetic cell separation. Lab on A Chip, 2015, 15, 959-970.	3.1	299
6	Shear thickening fluids in protective applications: A review. Progress in Polymer Science, 2017, 75, 48-72.	11.8	272
7	Liquid metal-filled magnetorheological elastomer with positive piezoconductivity. Nature Communications, 2019, 10, 1300.	5.8	267
8	Investigation on magnetorheological elastomers based on natural rubber. Journal of Materials Science, 2007, 42, 5483-5489.	1.7	263
9	Active droplet sorting in microfluidics: a review. Lab on A Chip, 2017, 17, 751-771.	3.1	250
10	Viscoelastic properties of MR elastomers under harmonic loading. Rheologica Acta, 2010, 49, 733-740.	1.1	247
11	A Review of Localization Systems for Robotic Endoscopic Capsules. IEEE Transactions on Biomedical Engineering, 2012, 59, 2387-2399.	2.5	219
12	Microstructures and viscoelastic properties of anisotropic magnetorheological elastomers. Smart Materials and Structures, 2007, 16, 2645-2650.	1.8	205
13	A review on performance enhancement techniques for ambient vibration energy harvesters. Renewable and Sustainable Energy Reviews, 2017, 71, 435-449.	8.2	188
14	Recent progress of particle migration in viscoelastic fluids. Lab on A Chip, 2018, 18, 551-567.	3.1	186
15	A review of microfabrication techniques and dielectrophoretic microdevices for particle manipulation and separation. Journal Physics D: Applied Physics, 2014, 47, 063001.	1.3	174
16	Effect of carbon black on the mechanical performances of magnetorheological elastomers. Polymer Testing, 2008, 27, 340-345.	2.3	166
17	The rheology of shear thickening fluid (STF) and the dynamic performance of an STF-filled damper. Smart Materials and Structures, 2008, 17, 035027.	1.8	161
18	Testing and steady state modeling of a linear MR damper under sinusoidal loading. Smart Materials and Structures, 2000, 9, 95-102.	1.8	157

#	Article	IF	Citations
19	Development of an MR-brake-based haptic device. Smart Materials and Structures, 2006, 15, 1960-1966.	1.8	157
20	Study on the damping properties of magnetorheological elastomers based on cis-polybutadiene rubber. Polymer Testing, 2008, 27, 520-526.	2.3	157
21	A hybrid deep-learning model for fault diagnosis of rolling bearings. Measurement: Journal of the International Measurement Confederation, 2021, 169, 108502.	2.5	155
22	Development and characterization of a magnetorheological elastomer based adaptive seismic isolator. Smart Materials and Structures, 2013, 22, 035005.	1.8	153
23	Inertial particle separation by differential equilibrium positions in a symmetrical serpentine micro-channel. Scientific Reports, 2014, 4, 4527.	1.6	152
24	Semi-active variable stiffness vibration control of vehicle seat suspension using an MR elastomer isolator. Smart Materials and Structures, 2011, 20, 105003.	1.8	142
25	Hybrid microfluidics combined with active and passive approaches for continuous cell separation. Electrophoresis, 2017, 38, 238-249.	1.3	138
26	Multiplexing slanted spiral microchannels for ultra-fast blood plasma separation. Lab on A Chip, 2016, 16, 2791-2802.	3.1	135
27	A highly adjustable magnetorheological elastomer base isolator for applications of real-time adaptive control. Smart Materials and Structures, 2013, 22, 095020.	1.8	127
28	The rheology of shear thickening fluids with various ceramic particle additives. Materials and Design, 2016, 104, 312-319.	3.3	126
29	Microfluidic Mass Production of Stabilized and Stealthy Liquid Metal Nanoparticles. Small, 2018, 14, e1800118.	5.2	117
30	Particle inertial focusing and its mechanism in a serpentine microchannel. Microfluidics and Nanofluidics, 2014, 17, 305-316.	1.0	114
31	A review of drug delivery systems for capsule endoscopy. Advanced Drug Delivery Reviews, 2014, 71, 77-85.	6.6	112
32	Experimental study and modeling of a novel magnetorheological elastomer isolator. Smart Materials and Structures, 2013, 22, 117001.	1.8	111
33	Design and Fabrication of Magnetically Functionalized Core/Shell Microspheres for Smart Drug Delivery. Advanced Functional Materials, 2009, 19, 292-297.	7.8	110
34	Phase Separation in Liquid Metal Nanoparticles. Matter, 2019, 1, 192-204.	5.0	110
35	A Wheeled Robot Driven by a Liquidâ€Metal Droplet. Advanced Materials, 2018, 30, e1805039.	11.1	109
36	Viscoelastic properties of MR fluids. Smart Materials and Structures, 1999, 8, 460-468.	1.8	108

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37	Integrated Seat and Suspension Control for a Quarter Car With Driver Model. IEEE Transactions on Vehicular Technology, 2012, 61, 3893-3908.	3.9	108
38	Development and simulation evaluation of a magnetorheological elastomer isolator for seat vibration control. Journal of Intelligent Material Systems and Structures, 2012, 23, 1041-1048.	1.4	107
39	Takagiâ€“Sugeno Fuzzy Control for Semi-Active Vehicle Suspension With a Magnetorheological Damper and Experimental Validation. IEEE/ASME Transactions on Mechatronics, 2017, 22, 291-300.	3.7	107
40	A Liquidâ€Metalâ€Based Magnetoactive Slurry for Stimuliâ€Responsive Mechanically Adaptive Electrodes. Advanced Materials, 2018, 30, e1802595.	11.1	106
41	A Novel Observer Design for Simultaneous Estimation of Vehicle Steering Angle andÂSideslip Angle. IEEE Transactions on Industrial Electronics, 2016, 63, 4357-4366.	5.2	105
42	A mini review of recent progress on vortex-induced vibrations of marine risers. Ocean Engineering, 2020, 195, 106704.	1.9	104
43	State of the art of control schemes for smart systems featuring magneto-rheological materials. Smart Materials and Structures, 2016, 25, 043001.	1.8	103
44	Tunable particle separation in a hybrid dielectrophoresis (DEP)- inertial microfluidic device. Sensors and Actuators B: Chemical, 2018, 267, 14-25.	4.0	99
45	Sonication-enabled rapid production of stable liquid metal nanoparticles grafted with poly(1-octadecene-alt-maleic anhydride) in aqueous solutions. Nanoscale, 2018, 10, 19871-19878.	2.8	98
46	MRE Properties under Shear and Squeeze Modes and Applications. Journal of Intelligent Material Systems and Structures, 2010, 21, 1471-1477.	1.4	96
47	Microstructure and magnetorheology of graphite-based MR elastomers. Rheologica Acta, 2011, 50, 825-836.	1.1	96
48	Development of a novel multi-layer MRE isolator for suppression of building vibrations under seismic events. Mechanical Systems and Signal Processing, 2016, 70-71, 811-820.	4.4	96
49	Design and Implementation of a Soft Robotic Arm Driven by SMA Coils. IEEE Transactions on Industrial Electronics, 2019, 66, 6108-6116.	5.2	95
50	Study on magnetorheological shear thickening fluid. Smart Materials and Structures, 2008, 17, 015051.	1.8	94
51	Disturbance observer based Takagi-Sugeno fuzzy control for an active seat suspension. Mechanical Systems and Signal Processing, 2017, 93, 515-530.	4.4	94
52	Finite Element Analysis and Simulation Evaluation of a Magnetorheological Valve. International Journal of Advanced Manufacturing Technology, 2003, 21, 438-445.	1.5	92
53	Co3O4 nanorods decorated reduced graphene oxide composite for oxygen reduction reaction in alkaline electrolyte. Electrochemistry Communications, 2013, 34, 299-303.	2.3	90
54	High throughput extraction of plasma using a secondary flow-aided inertial microfluidic device. RSC Advances, 2014, 4, 33149.	1.7	88

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55	A novel magnetorheological elastomer isolator with negative changing stiffness for vibration reduction. Smart Materials and Structures, 2014, 23, 105023.	1.8	88
56	Recent progress of magnetorheological elastomers: a review. Smart Materials and Structures, 2020, 29, 123002.	1.8	84
57	A seat suspension with a rotary magnetorheological damper for heavy duty vehicles. Smart Materials and Structures, 2016, 25, 105032.	1.8	83
58	A 2-DOF MR actuator joystick for virtual reality applications. Sensors and Actuators A: Physical, 2007, 137, 308-320.	2.0	82
59	The effect of carbide particle additives on rheology of shear thickening fluids. Korea Australia Rheology Journal, 2016, 28, 121-128.	0.7	82
60	Mode coupling chatter suppression for robotic machining using semi-active magnetorheological elastomers absorber. Mechanical Systems and Signal Processing, 2019, 117, 221-237.	4.4	82
61	A Liquid Metal Artificial Muscle. Advanced Materials, 2021, 33, e2103062.	11.1	82
62	Active control of an innovative seat suspension system with acceleration measurement based friction estimation. Journal of Sound and Vibration, 2016, 384, 28-44.	2.1	81
63	Fabrication and characterization of PDMS based magnetorheological elastomers. Smart Materials and Structures, 2013, 22, 055035.	1.8	80
64	Hybridâ€Filler Stretchable Conductive Composites: From Fabrication to Application. Small Science, 2021, 1, 2000080.	5.8	80
65	Functional Liquid Metal Nanoparticles Produced by Liquidâ€Based Nebulization. Advanced Materials Technologies, 2019, 4, 1800420.	3.0	78
66	A Compact Variable Stiffness and Damping Shock Absorber for Vehicle Suspension. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2621-2629.	3.7	77
67	Focusing of sub-micrometer particles in microfluidic devices. Lab on A Chip, 2020, 20, 35-53.	3.1	77
68	Liquid Metal Composites with Anisotropic and Unconventional Piezoconductivity. Matter, 2020, 3, 824-841.	5.0	77
69	A study of the magnetorheological effect of bimodal particle based magnetorheological elastomers. Smart Materials and Structures, 2010, 19, 035002.	1.8	76
70	An active seat suspension design for vibration control of heavy-duty vehicles. Journal of Low Frequency Noise Vibration and Active Control, 2016, 35, 264-278.	1.3	75
71	On a CPG-Based Hexapod Robot: AmphiHex-II With Variable Stiffness Legs. IEEE/ASME Transactions on Mechatronics, 2018, 23, 542-551.	3.7	75
72	A Review of Secondary Flow in Inertial Microfluidics. Micromachines, 2020, 11, 461.	1.4	75

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73	Sensing capabilities of graphite based MR elastomers. Smart Materials and Structures, 2011, 20, 025022.	1.8	74
74	A Review on Chatter in Robotic Machining Process Regarding Both Regenerative and Mode Coupling Mechanism. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2240-2251.	3.7	74
75	Analysis and fabrication of patterned magnetorheological elastomers. Smart Materials and Structures, 2008, 17, 045001.	1.8	73
76	Isolating plasma from blood using a dielectrophoresis-active hydrophoretic device. Lab on A Chip, 2014, 14, 2993.	3.1	73
77	A novel viscoelastic-based ferrofluid for continuous sheathless microfluidic separation of nonmagnetic microparticles. Lab on A Chip, 2016, 16, 3947-3956.	3.1	73
78	Fault-tolerant control of electric vehicles with in-wheel motors using actuator-grouping sliding mode controllers. Mechanical Systems and Signal Processing, 2016, 72-73, 462-485.	4.4	73
79	Versatile Microfluidic Platforms Enabled by Novel Magnetorheological Elastomer Microactuators. Advanced Functional Materials, 2018, 28, 1705484.	7.8	71
80	A Potential Field Approach-Based Trajectory Control for Autonomous Electric Vehicles With In-Wheel Motors. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2044-2055.	4.7	70
81	A Structural Optimisation Method for a Soft Pneumatic Actuator. Robotics, 2018, 7, 24.	2.1	65
82	The development of an adaptive tuned magnetorheological elastomer absorber working in squeeze mode. Smart Materials and Structures, 2014, 23, 075009.	1.8	64
83	An adaptive tuned vibration absorber based on multilayered MR elastomers. Smart Materials and Structures, 2015, 24, 045045.	1.8	64
84	Damping of Magnetorheological Elastomers. Chinese Journal of Chemical Physics, 2008, 21, 581-585.	0.6	63
85	Design and fabrication of microfluidic mixer from carbonyl ironâ€“PDMS composite membrane. Microfluidics and Nanofluidics, 2011, 10, 919-925.	1.0	63
86	Magnetorheological Elastomers and Their Applications. Advanced Structured Materials, 2013, , 357-374.	0.3	63
87	An Energy Saving Variable Damping Seat Suspension System With Regeneration Capability. IEEE Transactions on Industrial Electronics, 2018, 65, 8080-8091.	5.2	63
88	Real-time control of inertial focusing in microfluidics using dielectrophoresis (DEP). RSC Advances, 2014, 4, 62076-62085.	1.7	62
89	Vibration control of an energy regenerative seat suspension with variable external resistance. Mechanical Systems and Signal Processing, 2018, 106, 94-113.	4.4	62
90	Reduced graphene oxideâ€“cuprous oxide composite via facial deposition for photocatalytic dye-degradation. Journal of Alloys and Compounds, 2013, 568, 26-35.	2.8	61

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91	Research and Applications of MR Elastomers. Recent Patents on Mechanical Engineering, 2008, 1, 161-166.	0.2	61
92	Bioparticle separation and manipulation using dielectrophoresis. Sensors and Actuators A: Physical, 2007, 133, 329-334.	2.0	60
93	Experimental investigation of the vibration characteristics of a magnetorheological elastomer sandwich beam under non-homogeneous small magnetic fields. Smart Materials and Structures, 2011, 20, 127001.	1.8	60
94	A variable resonance magnetorheological-fluid-based pendulum tuned mass damper for seismic vibration suppression. Mechanical Systems and Signal Processing, 2019, 116, 530-544.	4.4	60
95	Magneticallyâ€•and Electricallyâ€Controllable Functional Liquid Metal Droplets. Advanced Materials Technologies, 2019, 4, 1800694.	3.0	60
96	Experimental investigation of creep and recovery behaviors of magnetorheological fluids. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 333, 368-376.	2.6	59
97	An effective permeability model to predict field-dependent modulus of magnetorheological elastomers. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 1910-1916.	1.7	59
98	Development of an isolator working with magnetorheological elastomers and fluids. Mechanical Systems and Signal Processing, 2017, 83, 371-384.	4.4	59
99	Microstructure and magnetorheological properties of the thermoplastic magnetorheological elastomer composites containing modified carbonyl iron particles and poly(styrene-b-ethylene-ethylenepropylene-b-styrene) matrix. Smart Materials and Structures, 2012, 21, 115028.	1.8	58
100	Inertial focusing in a straight channel with asymmetrical expansionâ€“contraction cavity arrays using two secondary flows. Journal of Micromechanics and Microengineering, 2013, 23, 085023.	1.5	57
101	Direct voltage control of magnetorheological damper for vehicle suspensions. Smart Materials and Structures, 2013, 22, 105016.	1.8	57
102	Liquid metal droplet robot. Applied Materials Today, 2020, 19, 100597.	2.3	57
103	A 3D paired microelectrode array for accumulation and separation of microparticles. Journal of Micromechanics and Microengineering, 2006, 16, 1162-1169.	1.5	56
104	Thixotropy of MR shear-thickening fluids. Smart Materials and Structures, 2010, 19, 125012.	1.8	56
105	Smart Multifunctional Fluids for Lithium Ion Batteries: Enhanced Rate Performance and Intrinsic Mechanical Protection. Scientific Reports, 2013, 3, 2485.	1.6	54
106	Integrating photovoltaic thermal collectors and thermal energy storage systems using phase change materials with rotary desiccant cooling systems. Sustainable Cities and Society, 2018, 36, 131-143.	5.1	54
107	Unconventional locomotion of liquid metal droplets driven by magnetic fields. Soft Matter, 2018, 14, 7113-7118.	1.2	54
108	Dynamic behavior of MR suspensions at moderate flux densities. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 371, 9-15.	2.6	53

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109	Development of a novel variable stiffness and damping magnetorheological fluid damper. Smart Materials and Structures, 2015, 24, 085021.	1.8	53
110	Modeling and Experimental Characterization of Propulsion of a Spiral-Type Microrobot for Medical Use in Gastrointestinal Tract. IEEE Transactions on Biomedical Engineering, 2013, 60, 1751-1759.	2.5	52
111	Horizontal vibration reduction of a seat suspension using negative changing stiffness magnetorheological elastomer isolators. International Journal of Vehicle Design, 2015, 68, 104.	0.1	51
112	Fundamentals of Differential Particle Inertial Focusing in Symmetric Sinusoidal Microchannels. Analytical Chemistry, 2019, 91, 4077-4084.	3.2	51
113	Continuous plasma extraction under viscoelastic fluid in a straight channel with asymmetrical expansionâ€“contraction cavity arrays. Lab on A Chip, 2016, 16, 3919-3928.	3.1	50
114	Dean-flow-coupled elasto-inertial three-dimensional particle focusing under viscoelastic flow in a straight channel with asymmetrical expansionâ€“contraction cavity arrays. Biomicrofluidics, 2015, 9, 044108.	1.2	49
115	An electromagnetic variable inertance device for seat suspension vibration control. Mechanical Systems and Signal Processing, 2019, 133, 106259.	4.4	49
116	Development and evaluation of a versatile semi-active suspension system for high-speed railway vehicles. Mechanical Systems and Signal Processing, 2020, 135, 106338.	4.4	49
117	Modelling and identifying the parameters of a magneto-rheological damper with a force-lag phenomenon. Applied Mathematical Modelling, 2014, 38, 3763-3773.	2.2	48
118	Negative Pressure Induced Droplet Generation in a Microfluidic Flow-Focusing Device. Analytical Chemistry, 2017, 89, 4387-4391.	3.2	48
119	A simple and cost-effective method for fabrication of integrated electronic-microfluidic devices using a laser-patterned PDMS layer. Microfluidics and Nanofluidics, 2012, 12, 751-760.	1.0	47
120	Development of a torsional dynamic absorber using a magnetorheological elastomer for vibration reduction of a powertrain test rig. Journal of Intelligent Material Systems and Structures, 2013, 24, 2036-2044.	1.4	47
121	A novel method to construct 3D electrodes at the sidewall of microfluidic channel. Microfluidics and Nanofluidics, 2013, 14, 499-508.	1.0	47
122	High-Throughput Separation of White Blood Cells From Whole Blood Using Inertial Microfluidics. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 1422-1430.	2.7	47
123	The effect of graphene on the yarn pull-out force and ballistic performance of Kevlar fabrics impregnated with shear thickening fluids. Smart Materials and Structures, 2018, 27, 075048.	1.8	47
124	A New Generation of Magnetorheological Vehicle Suspension System With Tunable Stiffness and Damping Characteristics. IEEE Transactions on Industrial Informatics, 2019, 15, 4696-4708.	7.2	47
125	On-chip high-throughput manipulation of particles in a dielectrophoresis-active hydrophoretic focuser. Scientific Reports, 2014, 4, 5060.	1.6	46
126	Experimental and modelling study of the effect of temperature on shear thickening fluids. Korea Australia Rheology Journal, 2015, 27, 17-24.	0.7	45

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127	Rapid, one-step preparation of SERS substrate in microfluidic channel for detection of molecules and heavy metal ions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 220, 117113.	2.0	44
128	Programmable Digital Liquid Metal Droplets in Reconfigurable Magnetic Fields. ACS Applied Materials & Interfaces, 2020, 12, 37670-37679.	4.0	44
129	Microdroplet-based universal logic gates by electrorheological fluid. Soft Matter, 2011, 7, 7493.	1.2	42
130	Vibration reduction of seat suspension using observer based terminal sliding mode control with acceleration data fusion. Mechatronics, 2017, 44, 71-83.	2.0	42
131	Sheathless separation of microalgae from bacteria using a simple straight channel based on viscoelastic microfluidics. Lab on A Chip, 2019, 19, 2811-2821.	3.1	42
132	Development of a force sensor working with MR elastomers. , 2009, , .		41
133	Improved concentration and separation of particles in a 3D dielectrophoretic chip integrating focusing, aligning and trapping. Microfluidics and Nanofluidics, 2013, 14, 527-539.	1.0	41
134	Analysis of a compact annular-radial-orifice flow magnetorheological valve and evaluation of its performance. Journal of Intelligent Material Systems and Structures, 2017, 28, 1322-1333.	1.4	41
135	Effect of temperature on the transmission characteristics of high-torque magnetorheological brakes. Smart Materials and Structures, 2019, 28, 057002.	1.8	41
136	Continuous manipulation and separation of particles using combined obstacleâ€•and curvatureâ€induced direct current dielectrophoresis. Electrophoresis, 2013, 34, 952-960.	1.3	40
137	Performance evaluation and comparison of magnetorheological elastomer absorbers working in shear and squeeze modes. Journal of Intelligent Material Systems and Structures, 2015, 26, 1757-1763.	1.4	40
138	Comparison of rheological behaviors with fumed silica-based shear thickening fluids. Korea Australia Rheology Journal, 2016, 28, 197-205.	0.7	40
139	Microscopic characteristics of magnetorheological fluids subjected to magnetic fields. Journal of Magnetism and Magnetic Materials, 2020, 501, 166443.	1.0	40
140	Study of shear-stiffened elastomers. Smart Materials and Structures, 2012, 21, 125009.	1.8	39
141	Continuous particle focusing in a waved microchannel using negative dc dielectrophoresis. Journal of Micromechanics and Microengineering, 2012, 22, 095001.	1.5	39
142	Investigation of humping phenomenon for the multi-directional robotic wire and arc additive manufacturing. Robotics and Computer-Integrated Manufacturing, 2020, 63, 101916.	6.1	39
143	A Magnetorheological Fluid-Filled Soft Crawling Robot With Magnetic Actuation. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2700-2710.	3.7	39
144	Dynamic response of symmetrical and asymmetrical sandwich plates with shear thickening fluid core subjected to penetration loading. Materials and Design, 2016, 94, 105-110.	3.3	38

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145	Analysis of Magnetic Interaction in Remotely Controlled Magnetic Devices and its Application to a Capsule Robot for Drug Delivery. IEEE/ASME Transactions on Mechatronics, 2018, 23, 298-310.	3.7	38
146	Application of Multidirectional Robotic Wire Arc Additive Manufacturing Process for the Fabrication of Complex Metallic Parts. IEEE Transactions on Industrial Informatics, 2020, 16, 454-464.	7.2	38
147	Dynamic Temperature Control System for the Optimized Production of Liquid Metal Nanoparticles. ACS Applied Nano Materials, 2020, 3, 6905-6914.	2.4	38
148	Effect of maleic anhydride on the damping property of magnetorheological elastomers. Smart Materials and Structures, 2010, 19, 055015.	1.8	37
149	Trajectory control for autonomous electric vehicles with inâ€wheel motors based on a dynamics model approach. IET Intelligent Transport Systems, 2016, 10, 318-330.	1.7	37
150	On-Chip Microparticle and Cell Washing Using Coflow of Viscoelastic Fluid and Newtonian Fluid. Analytical Chemistry, 2017, 89, 9574-9582.	3.2	37
151	Two-layer structure based adaptive estimation for vehicle mass and road slope under longitudinal motion. Measurement: Journal of the International Measurement Confederation, 2017, 95, 439-455.	2.5	37
152	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.	1.4	37
153	Modeling and Experimental Investigation of Rotational Resistance of a Spiral-Type Robotic Capsule Inside a Real Intestine. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1555-1562.	3.7	36
154	Side-slip angle estimation based lateral dynamics control for omni-directional vehicles with optimal steering angle and traction/brake torque distribution. Mechatronics, 2015, 30, 348-362.	2.0	36
155	Investigation of particle lateral migration in sampleâ€sheath flow of viscoelastic fluid and Newtonian fluid. Electrophoresis, 2016, 37, 2147-2155.	1.3	36
156	Optimal design and size of a desiccant cooling system with onsite energy generation and thermal storage using a multilayer perceptron neural network and a genetic algorithm. Energy Conversion and Management, 2019, 180, 598-608.	4.4	36
157	Improving the critical speeds of high-speed trains using magnetorheological technology. Smart Materials and Structures, 2013, 22, 115012.	1.8	35
158	A hybrid magnetorheological elastomer-fluid (MRE-F) isolation mount: development and experimental validation. Smart Materials and Structures, 2016, 25, 015026.	1.8	35
159	Sheathless Dean-flow-coupled elasto-inertial particle focusing and separation in viscoelastic fluid. RSC Advances, 2017, 7, 3461-3469.	1.7	35
160	Factors governing mass transfer during membrane electrodialysis regeneration of LiCl solution for liquid desiccant dehumidification systems. Sustainable Cities and Society, 2017, 28, 30-41.	5.1	35
161	High-throughput particle manipulation by hydrodynamic, electrokinetic, and dielectrophoretic effects in an integrated microfluidic chip. Biomicrofluidics, 2013, 7, 024106.	1.2	34
162	Development of a linear damper working with magnetorheological shear thickening fluids. Journal of Intelligent Material Systems and Structures, 2015, 26, 1811-1817.	1.4	34

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163	A hybrid dielectrophoretic and hydrophoretic microchip for particle sorting using integrated prefocusing and sorting steps. Electrophoresis, 2015, 36, 284-291.	1.3	34
164	Control of a multiple-DOF vehicle seat suspension with roll and vertical vibration. Journal of Sound and Vibration, 2018, 435, 170-191.	2.1	34
165	Nonlinear rheological behavior of magnetorheological fluids: step-strain experiments. Smart Materials and Structures, 2002, 11, 209-217.	1.8	33
166	Experimental and modeling study of viscoelastic behaviors of magneto-rheological shear thickening fluids. Korea Australia Rheology Journal, 2014, 26, 149-158.	0.7	33
167	An Adaptive Neuro Fuzzy Hybrid Control Strategy for a Semiactive Suspension with Magneto Rheological Damper. Advances in Mechanical Engineering, 2014, 6, 487312.	0.8	33
168	Fabrication and characterization of a magnetic micro-actuator based on deformable Fe-doped PDMS artificial cilium using 3D printing. Smart Materials and Structures, 2015, 24, 035015.	1.8	33
169	Dean-flow-coupled elasto-inertial particle and cell focusing in symmetric serpentine microchannels. Microfluidics and Nanofluidics, 2019, 23, 1.	1.0	33
170	Comparative study of vehicle tyreâ€“road friction coefficient estimation with a novel cost-effective method. Vehicle System Dynamics, 2014, 52, 1066-1098.	2.2	31
171	Side-slip angle estimation and stability control for a vehicle with a non-linear tyre model and a varying speed. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2015, 229, 486-505.	1.1	31
172	The rheological properties of shear thickening fluid reinforced with SiC nanowires. Results in Physics, 2017, 7, 3369-3372.	2.0	31
173	Fabrication of metallic parts with overhanging structures using the robotic wire arc additive manufacturing. Journal of Manufacturing Processes, 2021, 63, 24-34.	2.8	31
174	An Effective Localization Method for Robotic Endoscopic Capsules Using Multiple Positron Emission Markers. IEEE Transactions on Robotics, 2014, 30, 1174-1186.	7.3	30
175	Controllable Electrically Interconnected Suspension System for Improving Vehicle Vibration Performance. IEEE/ASME Transactions on Mechatronics, 2020, 25, 859-871.	3.7	30
176	A tunable magneto-rheological fluid-filled beam-like vibration absorber. Smart Materials and Structures, 2010, 19, 055020.	1.8	29
177	An Electromagnetic Variable Stiffness Device for Semiactive Seat Suspension Vibration Control. IEEE Transactions on Industrial Electronics, 2020, 67, 6773-6784.	5.2	29
178	Investigation of a new metamaterial magnetorheological elastomer isolator with tunable vibration bandgaps. Mechanical Systems and Signal Processing, 2022, 170, 108806.	4.4	29
179	Liquid metal-based amalgamation-assisted lithography for fabrication of complex channels with diverse structures and configurations. Lab on A Chip, 2018, 18, 785-792.	3.1	28
180	A portable, hand-powered microfluidic device for sorting of biological particles. Microfluidics and Nanofluidics, 2018, 22, 1.	1.0	28

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