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	Pareto Optimal Information Flow Topology for Control of Connected Autonomous Vehicles. IEEE Transactions on Intelligent Vehicles, 2023, 8, 330-343.	9.4	13
2	Innovative variable stiffness and variable damping magnetorheological actuation system for robotic arm positioning. Journal of Intelligent Material Systems and Structures, 2023, 34, 123-137.	1.4	8
3	Transient waveform matching based on ascending multi-wavelets for diagnostics and prognostics of bearing deterioration. ISA Transactions, 2022, 120, 330-341.	3.1	8
4	Numerical Study of Rotary Magnetorheological Seat Suspension on the Impact Protection. Lecture Notes in Electrical Engineering, 2022, , 1003-1017.	0.3	6
5	Development and Experimental Study of an MRF Engine Mount with Controllable Stiffness. Lecture Notes in Electrical Engineering, 2022, , 1018-1030.	0.3	0
6	Variable Admittance Network with Indirect Energy Supply for Semiactive Vibration Control. Lecture Notes in Electrical Engineering, 2022, , 987-1002.	0.3	0
7	Modeling and Motion Control of a Soft SMA Planar Actuator. IEEE/ASME Transactions on Mechatronics, 2022, 27, 916-927.	3.7	11
8	Design, Fabrication, and Testing of a Novel Ferrofluid Soft Capsule Robot. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1403-1413.	3.7	9
9	A hybrid MRE isolation system integrated with ball-screw inerter for vibration control. Smart Materials and Structures, 2022, 31, 025009.	1.8	3
10	Visualizing rheological mechanism of magnetorheological fluids. Smart Materials and Structures, 2022, 31, 025027.	1.8	8
11	Investigation of a new metamaterial magnetorheological elastomer isolator with tunable vibration bandgaps. Mechanical Systems and Signal Processing, 2022, 170, 108806.	4.4	29
12	Superelongation of Liquid Metal. Advanced Science, 2022, 9, e2105289.	5.6	19
13	Real-time adaptive leg-stiffness for roll compensation via magnetorheological control in a legged robot. Smart Materials and Structures, 2022, 31, 045003.	1.8	6
14	Development of a magnetorheological elastomer rubber joint with fail-safe characteristics for high-speed trains. Smart Materials and Structures, 2022, 31, 045008.	1.8	2
15	Multi-Objective Asymmetric Sliding Mode Control of Connected Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 16342-16357.	4.7	5
16	Investigation of a seat suspension installed with compact variable stiffness and damping rotary magnetorheological dampers. Mechanical Systems and Signal Processing, 2022, 171, 108802.	4.4	24
17	Investigation of a novel MRE metamaterial sandwich beam with real-time tunable band gap characteristics. Journal of Sound and Vibration, 2022, 527, 116870.	2.1	20
18	Equipping New SMA Artificial Muscles With Controllable MRF Exoskeletons for Robotic Manipulators and Grippers. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4585-4596.	3.7	6

#	Article	IF	Citations
19	Multiobjective Heterogeneous Asymmetric Sliding Mode Control of Nonlinear Connected Autonomous Vehicles. IEEE Access, 2022, 10, 50562-50577.	2.6	1
20	Evaluation of Different Bearing Fault Classifiers in Utilizing CNN Feature Extraction Ability. Sensors, 2022, 22, 3314.	2.1	19
21	Variable stiffness wires based on magnetorheological liquid metals. International Journal of Smart and Nano Materials, 2022, 13, 232-243.	2.0	9
22	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
23	A hybrid deep-learning model for fault diagnosis of rolling bearings. Measurement: Journal of the International Measurement Confederation, 2021, 169, 108502.	2.5	155
24	Event-triggered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si10.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>â^ž</mml:mi></mml:m control for active seat suspension systems based on relaxed conditions for stability. Mechanical Systems and Signal Processing, 2021, 149, 107210.	4.4	26
25	Performance investigation and sensitivity analysis of shell-and-tube phase change material thermal energy storage. Journal of Energy Storage, 2021, 33, 102040.	3.9	13
26	A Robot Boat Powered by Liquid Metal Engines. Advanced Materials Technologies, 2021, 6, .	3.0	14
27	Liquid metal motor. IScience, 2021, 24, 101911.	1.9	27
28	Light-controlled versatile manipulation of liquid metal droplets: a gateway to future liquid robots. Materials Horizons, 2021, 8, 3063-3071.	6.4	27
29	Modelling and experimental evaluation of a variable stiffness MR suspension with self-powering capability. Journal of Intelligent Material Systems and Structures, 2021, 32, 1473-1483.	1.4	2
30	A Novel Ferrofluid Rolling Robot: Design, Manufacturing, and Experimental Analysis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	6
31	A smart passive MR damper with a hybrid powering system for impact mitigation: An experimental study. Journal of Intelligent Material Systems and Structures, 2021, 32, 1452-1461.	1.4	5
32	Precise locomotion controller design for a novel magnetorheological fluid robot based on improved gray wolf optimization algorithm. Smart Materials and Structures, 2021, 30, 025038.	1.8	8
33	Experimental Study of a Variable Stiffness Seat Suspension Installed With a Compact Rotary MR Damper. Frontiers in Materials, 2021, 8, .	1.2	11
34	Optimisation of a renewable cooling and heating system using an integer-based genetic algorithm, response surface method and life cycle analysis. Energy Conversion and Management, 2021, 230, 113797.	4.4	19
35	A magnetorheological fluid based planetary gear transmission for mechanical power-flow control. Smart Materials and Structures, 2021, 30, 045013.	1.8	3
36	Abuseâ€Tolerant Electrolytes for Lithiumâ€Ion Batteries. Advanced Science, 2021, 8, e2003694.	5.6	16

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37	Hybridâ€Filler Stretchable Conductive Composites: From Fabrication to Application. Small Science, 2021, 1, 2000080.	5.8	80
38	Modular and Self-Contained Microfluidic Analytical Platforms Enabled by Magnetorheological Elastomer Microactuators. Micromachines, 2021, 12, 604.	1.4	5
39	A novel magneto-rheological fluid dual-clutch design for two-speed transmission of electric vehicles. Smart Materials and Structures, 2021, 30, 075035.	1.8	5
40	Event-triggered H_{âˆž} control for active seat suspension systems with state delay. Transactions of the Institute of Measurement and Control, 2021, 43, 3428-3437.	1.1	1
41	A bionic soft tongue driven by shape memory alloy and pneumatics. Bioinspiration and Biomimetics, 2021, 16, .	1.5	9
42	Reversible Underwater Adhesion for Soft Robotic Feet by Leveraging Electrochemically Tunable Liquid Metal Interfaces. ACS Applied Materials & Interfaces, 2021, 13, 37904-37914.	4.0	24
43	Recent advances in magnetic digital microfluidic platforms. Electrophoresis, 2021, 42, 2329-2346.	1.3	14
44	A semi-active variable equivalent stiffness and inertance device implemented by an electrical network. Mechanical Systems and Signal Processing, 2021, 156, 107676.	4.4	21
45	Sheathless Separation of Cyanobacterial Anabaena by Shape Using Viscoelastic Microfluidics. Analytical Chemistry, 2021, 93, 12648-12654.	3.2	24
46	Liquid Metal Hybrid Composites with High-Sensitivity and Large Dynamic Range Enabled by Micro- and Macrostructure Engineering. ACS Applied Polymer Materials, 2021, 3, 5302-5315.	2.0	22
47	Highly stretchable and sensitive strain sensor based on liquid metal composite for wearable sign language communication device. Smart Materials and Structures, 2021, 30, 115005.	1.8	11
48	A Liquid Metal Artificial Muscle. Advanced Materials, 2021, 33, e2103062.	11.1	82
49	Quality-related locally weighted soft sensing for non-stationary processes by a supervised Bayesian network with latent variables. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 1234-1246.	1.5	5
50	Design a Novel Target to Improve Positioning Accuracy of Autonomous Vehicular Navigation System in GPS Denied Environments. IEEE Transactions on Industrial Informatics, 2021, 17, 7575-7588.	7.2	23
51	Output Reachable Set Estimation for Singular Seat Suspension Systems. , 2021, , 143-149.		0
52	Dynamic outputâ€feedback eventâ€triggered Hâˆž control for singular active seat suspension systems with a human body model. IET Control Theory and Applications, 2021, 15, 594-603.	1.2	11
53	Development of a novel magnetorheological brake with zigzag magnetic flux path. Smart Materials and Structures, 2021, 30, 125028.	1.8	2
54	Building Vibration Suppression Through a Magnetorheological Variable Resonance Pendulum Tuned Mass Damper. , 2021, , 281-287.		1

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55	Shape and Force Sensing of A Soft SMA Planar Actuator for Soft Robots. , 2021, , .		0
56	Four-Wheel Electric Braking System Configuration With New Braking Torque Distribution Strategy for Improving Energy Recovery Efficiency. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 87-103.	4.7	26
57	An Electromagnetic Variable Stiffness Device for Semiactive Seat Suspension Vibration Control. IEEE Transactions on Industrial Electronics, 2020, 67, 6773-6784.	5.2	29
58	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
59	Development of a variable stiffness magnetorheological damper with self-powered generation capability. Journal of Intelligent Material Systems and Structures, 2020, 31, 209-219.	1.4	12
60	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
61	A magnetorheological elastomer rail damper for wideband attenuation of rail noise and vibration. Journal of Intelligent Material Systems and Structures, 2020, 31, 220-228.	1.4	16
62	A review of heat and mass transfer mechanisms of dehumidifiers and regenerators for liquid desiccant cooling systems. Science and Technology for the Built Environment, 2020, 26, 465-483.	0.8	6
63	Comparison of dynamic models based on backbone curve for rotary magneto-rheological damper. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 2732-2740.	1.1	3
64	Focusing of sub-micrometer particles in microfluidic devices. Lab on A Chip, 2020, 20, 35-53.	3.1	77
65	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
66	Development of a smart rubber joint for train using shear thickening fluids. Smart Materials and Structures, 2020, 29, 055036.	1.8	6
67	The variable resonance magnetorheological pendulum tuned mass damper: Mathematical modelling and seismic experimental studies. Journal of Intelligent Material Systems and Structures, 2020, 31, 263-276.	1.4	10
68	A mini review of recent progress on vortex-induced vibrations of marine risers. Ocean Engineering, 2020, 195, 106704.	1.9	104
69	High sensitivity face shear magneto-electric composite array for weak magnetic field sensing. Journal of Applied Physics, 2020, 128, .	1.1	5
70	Modular and Integrated Systems for Nanoparticle and Microparticle Synthesisâ€"A Review. Biosensors, 2020, 10, 165.	2.3	17
71	Densely Connected Deep Extreme Learning Machine Algorithm. Cognitive Computation, 2020, 12, 979-990.	3.6	16
72	Programmable Digital Liquid Metal Droplets in Reconfigurable Magnetic Fields. ACS Applied Materials & Interfaces, 2020, 12, 37670-37679.	4.0	44

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73	Modular off-chip emulsion generator enabled by a revolving needle. Lab on A Chip, 2020, 20, 4592-4599.	3.1	11
74	Fabrication and Characterisation of Magnetorheological Shear Thickening Fluids. Frontiers in Materials, 2020, 7, .	1.2	7
75	Soft Sensing Applications for Non-Stable Processes Based on a Weighted High-Order Dynamic Information Structure. IEEE Access, 2020, 8, 212055-212065.	2.6	2
76	A Magnetorheological Fluid-Filled Soft Crawling Robot With Magnetic Actuation. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2700-2710.	3.7	39
77	A Review of Secondary Flow in Inertial Microfluidics. Micromachines, 2020, 11, 461.	1.4	75
78	Design and experimental evaluation of a new modular underactuated multi-fingered robot hand. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 3709-3724.	1.1	6
79	Takagi-Sugeno Fuzzy Model-Based Semi-Active Control for the Seat Suspension With an Electrorheological Damper. IEEE Access, 2020, 8, 98027-98037.	2.6	12
80	A modified extreme seeking-based adaptive fuzzy sliding mode control scheme for vehicle anti-lock braking. International Journal of Vehicle Autonomous Systems, 2020, 15, 1.	0.2	3
81	A Novel Multifeature Based On-Site Calibration Method for LiDAR-IMU System. IEEE Transactions on Industrial Electronics, 2020, 67, 9851-9861.	5.2	23
82	Dynamic Temperature Control System for the Optimized Production of Liquid Metal Nanoparticles. ACS Applied Nano Materials, 2020, 3, 6905-6914.	2.4	38
83	Development of a biomimetic scallop robot capable of jet propulsion. Bioinspiration and Biomimetics, 2020, 15, 036008.	1.5	11
84	Controllable magnetorheological fluid damper-based seat suspension. , 2020, , 37-56.		3
85	Self-powered MR seat suspension. , 2020, , 57-77.		0
86	Variable equivalent inertance seat suspension. , 2020, , 121-167.		0
87	Single-DOF active seat suspension. , 2020, , 171-179.		0
88	Multiple-DOF active seat suspension. , 2020, , 181-208.		0
89	Theoretical and experimental investigation of a stiffness-controllable suspension for railway vehicles to avoid resonance. International Journal of Mechanical Sciences, 2020, 187, 105901.	3.6	23
90	Liquid Metal Composites with Anisotropic and Unconventional Piezoconductivity. Matter, 2020, 3, 824-841.	5.0	77

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91	Inertial Microfluidic Purification of Floating Cancer Cells for Drug Screening and Three-Dimensional Tumor Models. Analytical Chemistry, 2020, 92, 11558-11564.	3.2	20
92	Nonlinear stiffness seat suspension. , 2020, , 267-279.		0
93	Electrolytes with reversible switch between liquid and solid phases. Current Opinion in Electrochemistry, 2020, 21, 297-302.	2.5	8
94	Controllable electromagnetic damper-based seat suspension. , 2020, , 13-36.		0
95	Variable equivalent stiffness seat suspension. , 2020, , 79-119.		0
96	Active seat suspension control algorithm. , 2020, , 209-242.		1
97	Hybrid active and semi-active seat suspension. , 2020, , 245-265.		0
98	A new AI-surrogate model for dynamics analysis of a magnetorheological damper in the semi-active seat suspension. Smart Materials and Structures, 2020, 29, 037001.	1.8	17
99	Particle-Based Porous Materials for the Rapid and Spontaneous Diffusion of Liquid Metals. ACS Applied Materials & Interfaces, 2020, 12, 11163-11170.	4.0	17
100	Liquid metal droplet robot. Applied Materials Today, 2020, 19, 100597.	2.3	57
101	Solar medium-low temperature thermal utilization and effect analysis of boundary condition: A tutorial. Solar Energy, 2020, 197, 238-253.	2.9	15
102	Modeling and Motion Control of a Liquid Metal Droplet in a Fluidic Channel. IEEE/ASME Transactions on Mechatronics, 2020, 25, 942-950.	3.7	18
103	Microscopic characteristics of magnetorheological fluids subjected to magnetic fields. Journal of Magnetism and Magnetic Materials, 2020, 501, 166443.	1.0	40
104	Controllable Electrically Interconnected Suspension System for Improving Vehicle Vibration Performance. IEEE/ASME Transactions on Mechatronics, 2020, 25, 859-871.	3.7	30
105	Compensation of Geometric Parameter Errors for Terrestrial Laser Scanner by Integrating Intensity Correction. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7483-7495.	2.7	2
106	A Takagi-Sugeno Fuzzy Model-Based Control Strategy for Variable Stiffness and Variable Damping Suspension. IEEE Access, 2020, 8, 71628-71641.	2.6	8
107	Integration of an omnidirectional self-powering component to an MRE isolator towards a smart passive isolation system. Mechanical Systems and Signal Processing, 2020, 144, 106853.	4.4	13
108	Vibration suppression of tunnel boring machines using non-resonance approach. Mechanical Systems and Signal Processing, 2020, 145, 106969.	4.4	17

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109	A controllable mechanical motion rectifier-based semi-active magnetorheological inerter for vibration control. Smart Materials and Structures, 2020, 29, 114005.	1.8	13
110	Recent progress of magnetorheological elastomers: a review. Smart Materials and Structures, 2020, 29, 123002.	1.8	84
111	Singular System-Based Approach for Active Vibration Control of Vehicle Seat Suspension. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	0.9	5
112	2D magnetic field sensing array using face-shear mode PMN-PT/Metglas composite. Journal Physics D: Applied Physics, 2020, 53, 455306.	1.3	2
113	Non-linear tyre modelâ€“based non-singular terminal sliding mode observer for vehicle velocity and side-slip angle estimation. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 38-54.	1.1	11
114	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
115	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
116	Improving Positioning Accuracy of the Mobile Laser Scanning in GPS-Denied Environments: An Experimental Case Study. IEEE Sensors Journal, 2019, 19, 10753-10763.	2.4	17
117	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
118	A new robotic tactile sensor with bio-mimetic structural colour inspired by Morpho butterflies. Bioinspiration and Biomimetics, 2019, 14, 056010.	1.5	9
119	Design and testing of a novel two-way controllable overrunning clutch based magneto-rheological brake. Smart Materials and Structures, 2019, 28, 095013.	1.8	4
120	Measurement and prediction of granite damage evolution in deep mine seams using acoustic emission. Measurement Science and Technology, 2019, 30, 114002.	1.4	10
121	An electromagnetic variable inertance device for seat suspension vibration control. Mechanical Systems and Signal Processing, 2019, 133, 106259.	4.4	49
122	Development and evaluation of a highly adaptive MRF-based absorber with a large effective frequency range. Smart Materials and Structures, 2019, 28, 105003.	1.8	10
123	A Novel Electrical Variable Stiffness Device for Vehicle Seat Suspension Control With Mismatched Disturbance Compensation. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2019-2030.	3.7	23
124	Vibration control of a tunnel boring machine using adaptive magnetorheological damper. Smart Materials and Structures, 2019, 28, 115012.	1.8	13
125	A review of heat and mass transfer improvement techniques for dehumidifiers and regenerators of liquid desiccant cooling systems. Applied Thermal Engineering, 2019, 162, 114271.	3.0	27
126	Magneticallyâ€•and Electricallyâ€Controllable Functional Liquid Metal Droplets. Advanced Materials Technologies, 2019, 4, 1800694.	3.0	60

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127	Fundamentals of Differential Particle Inertial Focusing in Symmetric Sinusoidal Microchannels. Analytical Chemistry, 2019, 91, 4077-4084.	3.2	51
128	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
129	A Nanomechanical Analysis of Deformation Characteristics of 6H-SiC Using an Indenter and Abrasives in Different Fixed Methods. Micromachines, 2019, 10, 332.	1.4	10
130	Phase Separation in Liquid Metal Nanoparticles. Matter, 2019, 1, 192-204.	5.0	110
131	High-throughput production of uniformly sized liquid metal microdroplets using submerged electrodispersion. Applied Physics Letters, 2019, 114, 154101.	1.5	12
132	Numerical and experimental studies on a new variable stiffness and damping magnetorheological fluid damper. Journal of Intelligent Material Systems and Structures, 2019, 30, 1639-1652.	1.4	23
133	A rotary variable admittance device and its application in vehicle seat suspension vibration control. Journal of the Franklin Institute, 2019, 356, 7873-7895.	1.9	28
134	Liquid metal-filled magnetorheological elastomer with positive piezoconductivity. Nature Communications, 2019, 10, 1300.	5.8	267
135	Effect of temperature on the transmission characteristics of high-torque magnetorheological brakes. Smart Materials and Structures, 2019, 28, 057002.	1.8	41
136	Experimental testing and modelling of a rotary variable stiffness and damping shock absorber using magnetorheological technology. Journal of Intelligent Material Systems and Structures, 2019, 30, 1453-1465.	1.4	23
137	Rotation of Liquid Metal Droplets Solely Driven by the Action of Magnetic Fields. Applied Sciences (Switzerland), 2019, 9, 1421.	1.3	5
138	Automatic Morphology Control of Liquid Metal using a Combined Electrochemical and Feedback Control Approach. Micromachines, 2019, 10, 209.	1.4	10
139	A Robust Registration Method for Autonomous Driving Pose Estimation in Urban Dynamic Environment Using LiDAR. Electronics (Switzerland), 2019, 8, 43.	1.8	25
140	Dean-flow-coupled elasto-inertial particle and cell focusing in symmetric serpentine microchannels. Microfluidics and Nanofluidics, 2019, 23, 1.	1.0	33
141	A highly stiffness-adjustable robot leg for enhancing locomotive performance. Mechanical Systems and Signal Processing, 2019, 126, 458-468.	4.4	25
142	Integrated trajectory planning and control for obstacle avoidance manoeuvre using nonâ€linear vehicle MP algorithm. IET Intelligent Transport Systems, 2019, 13, 385-397.	1.7	5
143	High-Throughput, Off-Chip Microdroplet Generator Enabled by a Spinning Conical Frustum. Analytical Chemistry, 2019, 91, 3725-3732.	3.2	27
144	A variable inertance and variable damping vibration control system with electric circuit. , 2019, , .		4

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145	Large Deflection of a Compliant Beam with Non-uniform Stiffness Distribution using a PRB-3R Model. , 2019, , .		0
146	Robust Adaptive Sliding Mode PI Control for Active Vehicle Seat Suspension Systems. , 2019, , .		5
147	Optimizing Vibration Attenuation Performance of a Magnetorheological Damper-Based Semi-active Seat Suspension Using Artificial Intelligence. Frontiers in Materials, 2019, 6, .	1.2	16
148	A Controllable Untethered Vehicle Driven by Electrically Actuated Liquid Metal Droplets. IEEE Transactions on Industrial Informatics, 2019, 15, 2535-2543.	7.2	22
149	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
150	Top sheath flow-assisted secondary flow particle manipulation in microchannels with the slanted groove structure. Microfluidics and Nanofluidics, 2019, 23, 1.	1.0	6
151	Soft magneto-sensitive elastomer and polyvinylidene fluoride polymer based nonlinear piezoelectric energy harvesting: design, modelling and experiment. Smart Materials and Structures, 2019, 28, 015031.	1.8	14
152	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
153	Magneto-induced surface morphologies in magnetorheological elastomer films: an analytical study. Smart Materials and Structures, 2019, 28, 045016.	1.8	12
154	Functional Liquid Metal Nanoparticles Produced by Liquidâ€Based Nebulization. Advanced Materials Technologies, 2019, 4, 1800420.	3.0	78
155	Phononic crystal lens with an asymmetric scatterer. Journal Physics D: Applied Physics, 2019, 52, 025102.	1.3	21
156	A novel empirical heat transfer model for a solar thermal storage process using phase change materials. Energy, 2019, 168, 222-234.	4.5	11
157	Design and Implementation of a Soft Robotic Arm Driven by SMA Coils. IEEE Transactions on Industrial Electronics, 2019, 66, 6108-6116.	5.2	95
158	Enhanced Localization of Robotic Capsule Endoscopes Using Positron Emission Markers and Rigid-Body Transformation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1270-1284.	5.9	18
159	Enhanced particle self-ordering in a double-layer channel. Biomedical Microdevices, 2018, 20, 23.	1.4	2
160	Microfluidic Mass Production of Stabilized and Stealthy Liquid Metal Nanoparticles. Small, 2018, 14, e1800118.	5.2	117
161	Tunable particle separation in a hybrid dielectrophoresis (DEP)- inertial microfluidic device. Sensors and Actuators B: Chemical, 2018, 267, 14-25.	4.0	99
162	On a CPG-Based Hexapod Robot: AmphiHex-II With Variable Stiffness Legs. IEEE/ASME Transactions on Mechatronics, 2018, 23, 542-551.	3.7	75

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163	Design, Fabrication, and Test of a Coupled Parametricâ€“Transverse Nonlinearly Broadband Energy Harvester. IEEE Transactions on Energy Conversion, 2018, 33, 457-464.	3.7	10
164	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
165	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
166	Experimental Nonlinear Model Identification of a Highly Nonlinear Resonator. Journal of Vibration and Acoustics, Transactions of the ASME, 2018, 140, .	1.0	2
167	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
168	Magnetorheological technology for fabricating tunable solid electrolyte with enhanced conductivity and mechanical property. Smart Materials and Structures, 2018, 27, 035022.	1.8	5
169	Versatile Microfluidic Platforms Enabled by Novel Magnetorheological Elastomer Microactuators. Advanced Functional Materials, 2018, 28, 1705484.	7.8	71
170	A rapid, maskless 3D prototyping for fabrication of capillary circuits: Toward urinary protein detection. Electrophoresis, 2018, 39, 957-964.	1.3	6
171	Recent progress of particle migration in viscoelastic fluids. Lab on A Chip, 2018, 18, 551-567.	3.1	186
172	Design of a Single-Layer Microchannel for Continuous Sheathless Single-Stream Particle Inertial Focusing. Analytical Chemistry, 2018, 90, 1786-1794.	3.2	27
173	Vibration control of an energy regenerative seat suspension with variable external resistance. Mechanical Systems and Signal Processing, 2018, 106, 94-113.	4.4	62
174	An Energy Saving Variable Damping Seat Suspension System With Regeneration Capability. IEEE Transactions on Industrial Electronics, 2018, 65, 8080-8091.	5.2	63
175	Simple, lowâ€cost fabrication of semiâ€circular channel using the surface tension of solder paste and its application to microfluidic valves. Electrophoresis, 2018, 39, 1460-1465.	1.3	0
176	Overcoming the conflict requirement between high-speed stability and curving trafficability of the train using an innovative magnetorheological elastomer rubber joint. Journal of Intelligent Material Systems and Structures, 2018, 29, 214-222.	1.4	12
177	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
178	Development of a nonlinear adaptive absorber based on magnetorheological elastomer. Journal of Intelligent Material Systems and Structures, 2018, 29, 194-204.	1.4	20
179	A portable, hand-powered microfluidic device for sorting of biological particles. Microfluidics and Nanofluidics, 2018, 22, 1.	1.0	28
180	Tunable smart digital structure (SDS) to modularly assemble soft actuators with layered adhesive bonding. Smart Materials and Structures, 2018, 27, 015012.	1.8	9

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