

Weihua Li

List of Publications by Year in Descending Order

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Version: 2024-04-09

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

455 papers	13,024 citations	58 h-index	93 g-index
496 ext. papers	15,768 ext. citations	4.3 avg, IF	7.02 L-index

#	Paper	IF	Citations
455	A Pareto optimal information flow topology for control of connected autonomous vehicles. <i>IEEE Transactions on Intelligent Vehicles</i> , 2022 , 1-1	5	4
454	Investigation of a new metamaterial magnetorheological elastomer isolator with tunable vibration bandgaps. <i>Mechanical Systems and Signal Processing</i> , 2022 , 170, 108806	7.8	0
453	Superelongation of Liquid Metal.. <i>Advanced Science</i> , 2022 , e2105289	13.6	4
452	Visualizing rheological mechanism of magnetorheological fluids. <i>Smart Materials and Structures</i> , 2022 , 31, 025027	3.4	1
451	Numerical Study of Rotary Magnetorheological Seat Suspension on the Impact Protection. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 1003-1017	0.2	0
450	Development and Experimental Study of an MRF Engine Mount with Controllable Stiffness. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 1018-1030	0.2	
449	Variable Admittance Network with Indirect Energy Supply for Semiactive Vibration Control. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 987-1002	0.2	
448	Multi-Objective Asymmetric Sliding Mode Control of Connected Autonomous Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 1-16	6.1	1
447	Investigation of a seat suspension installed with compact variable stiffness and damping rotary magnetorheological dampers. <i>Mechanical Systems and Signal Processing</i> , 2022 , 171, 108802	7.8	3
446	Investigation of a novel MRE metamaterial sandwich beam with real-time tunable band gap characteristics. <i>Journal of Sound and Vibration</i> , 2022 , 527, 116870	3.9	3
445	Equipping New SMA Artificial Muscles With Controllable MRF Exoskeletons for Robotic Manipulators and Grippers. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-12	5.5	1
444	Multi-objective heterogeneous asymmetric sliding mode control of nonlinear connected autonomous vehicles. <i>IEEE Access</i> , 2022 , 1-1	3.5	
443	Building Vibration Suppression Through a Magnetorheological Variable Resonance Pendulum Tuned Mass Damper 2021 , 281-287		
442	Dynamic output-feedback event-triggered H _∞ control for singular active seat suspension systems with a human body model. <i>IET Control Theory and Applications</i> , 2021 , 15, 594-603	2.5	5
441	Transient waveform matching based on ascending multi-wavelets for diagnostics and prognostics of bearing deterioration. <i>ISA Transactions</i> , 2021 ,	5.5	1
440	Hybrid-Filler Stretchable Conductive Composites: From Fabrication to Application. <i>Small Science</i> , 2021 , 1, 2000080		32
439	Modular and Self-Contained Microfluidic Analytical Platforms Enabled by Magnetorheological Elastomer Microactuators. <i>Micromachines</i> , 2021 , 12,	3.3	3

438	A novel magneto-rheological fluid dual-clutch design for two-speed transmission of electric vehicles. <i>Smart Materials and Structures</i> , 2021 , 30, 075035	3.4	2
437	Event-triggered H _∞ control for active seat suspension systems with state delay. <i>Transactions of the Institute of Measurement and Control</i> , 2021 , 43, 3428-3437	1.8	
436	A bionic soft tongue driven by shape memory alloy and pneumatics. <i>Bioinspiration and Biomimetics</i> , 2021 , 16,	2.6	1
435	Fabrication of metallic parts with overhanging structures using the robotic wire arc additive manufacturing. <i>Journal of Manufacturing Processes</i> , 2021 , 63, 24-34	5	11
434	A hybrid deep-learning model for fault diagnosis of rolling bearings. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 169, 108502	4.6	45
433	Event-triggered H _∞ control for active seat suspension systems based on relaxed conditions for stability. <i>Mechanical Systems and Signal Processing</i> , 2021 , 149, 107210	7.8	7
432	Performance investigation and sensitivity analysis of shell-and-tube phase change material thermal energy storage. <i>Journal of Energy Storage</i> , 2021 , 33, 102040	7.8	7
431	A Robot Boat Powered by Liquid Metal Engines. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000840	6.8	5
430	Liquid metal motor. <i>IScience</i> , 2021 , 24, 101911	6.1	12
429	Light-controlled versatile manipulation of liquid metal droplets: a gateway to future liquid robots. <i>Materials Horizons</i> , 2021 , 8, 3063-3071	14.4	4
428	Modelling and experimental evaluation of a variable stiffness MR suspension with self-powering capability. <i>Journal of Intelligent Material Systems and Structures</i> , 2021 , 32, 1473-1483	2.3	
427	A Novel Ferrofluid Rolling Robot: Design, Manufacturing, and Experimental Analysis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-10	5.2	2
426	A smart passive MR damper with a hybrid powering system for impact mitigation: An experimental study. <i>Journal of Intelligent Material Systems and Structures</i> , 2021 , 32, 1452-1461	2.3	2
425	Precise locomotion controller design for a novel magnetorheological fluid robot based on improved gray wolf optimization algorithm. <i>Smart Materials and Structures</i> , 2021 , 30, 025038	3.4	6
424	Experimental Study of a Variable Stiffness Seat Suspension Installed With a Compact Rotary MR Damper. <i>Frontiers in Materials</i> , 2021 , 8,	4	2
423	Optimisation of a renewable cooling and heating system using an integer-based genetic algorithm, response surface method and life cycle analysis. <i>Energy Conversion and Management</i> , 2021 , 230, 113797	10.6	2
422	A magnetorheological fluid based planetary gear transmission for mechanical power-flow control. <i>Smart Materials and Structures</i> , 2021 , 30, 045013	3.4	1
421	Abuse-Tolerant Electrolytes for Lithium-Ion Batteries. <i>Advanced Science</i> , 2021 , 8, e2003694	13.6	5

420	Reversible Underwater Adhesion for Soft Robotic Feet by Leveraging Electrochemically Tunable Liquid Metal Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 37904-37914	9.5	7
419	Recent advances in magnetic digital microfluidic platforms. <i>Electrophoresis</i> , 2021 , 42, 2329-2346	3.6	3
418	A semi-active variable equivalent stiffness and inertance device implemented by an electrical network. <i>Mechanical Systems and Signal Processing</i> , 2021 , 156, 107676	7.8	6
417	Sheathless Separation of Cyanobacterial by Shape Using Viscoelastic Microfluidics. <i>Analytical Chemistry</i> , 2021 , 93, 12648-12654	7.8	2
416	Highly stretchable and sensitive strain sensor based on liquid metal composite for wearable sign language communication device. <i>Smart Materials and Structures</i> , 2021 , 30, 115005	3.4	2
415	A Liquid Metal Artificial Muscle. <i>Advanced Materials</i> , 2021 , 33, e2103062	24	16
414	Quality-related locally weighted soft sensing for non-stationary processes by a supervised Bayesian network with latent variables. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2021 , 22, 1234-1246	2.2	0
413	. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 7575-7588	11.9	7
412	Output Reachable Set Estimation for Singular Seat Suspension Systems 2021 , 143-149		
411	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	2
410	Design, Fabrication and Testing of a Novel Ferrofluid Soft Capsule Robot. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	1
409	A Magnetorheological Fluid-Filled Soft Crawling Robot With Magnetic Actuation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 2700-2710	5.5	12
408	A Review of Secondary Flow in Inertial Microfluidics. <i>Micromachines</i> , 2020 , 11,	3.3	24
407	Design and experimental evaluation of a new modular underactuated multi-fingered robot hand. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020 , 234, 3709-3724	1.3	2
406	Takagi-Sugeno Fuzzy Model-Based Semi-Active Control for the Seat Suspension With an Electrorheological Damper. <i>IEEE Access</i> , 2020 , 8, 98027-98037	3.5	4
405	A modified extreme seeking-based adaptive fuzzy sliding mode control scheme for vehicle anti-lock braking. <i>International Journal of Vehicle Autonomous Systems</i> , 2020 , 15, 1	0.4	1
404	A Novel Multifeature Based On-Site Calibration Method for LiDAR-IMU System. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 9851-9861	8.9	11
403	Dynamic Temperature Control System for the Optimized Production of Liquid Metal Nanoparticles. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6905-6914	5.6	15

402	Development of a biomimetic scallop robot capable of jet propulsion. <i>Bioinspiration and Biomimetics</i> , 2020 , 15, 036008	2.6	3
401	Controllable magnetorheological fluid damper-based seat suspension 2020 , 37-56		3
400	Self-powered MR seat suspension 2020 , 57-77		
399	Variable equivalent inertance seat suspension 2020 , 121-167		
398	Single-DOF active seat suspension 2020 , 171-179		
397	Multiple-DOF active seat suspension 2020 , 181-208		
396	Theoretical and experimental investigation of a stiffness-controllable suspension for railway vehicles to avoid resonance. <i>International Journal of Mechanical Sciences</i> , 2020 , 187, 105901	5.5	6
395	Liquid Metal Composites with Anisotropic and Unconventional Piezoconductivity. <i>Matter</i> , 2020 , 3, 824-841	1.7	40
394	Inertial Microfluidic Purification of Floating Cancer Cells for Drug Screening and Three-Dimensional Tumor Models. <i>Analytical Chemistry</i> , 2020 , 92, 11558-11564	7.8	12
393	Nonlinear stiffness seat suspension 2020 , 267-279		
392	Electrolytes with reversible switch between liquid and solid phases. <i>Current Opinion in Electrochemistry</i> , 2020 , 21, 297-302	7.2	5
391	Controllable electromagnetic damper-based seat suspension 2020 , 13-36		
390	Variable equivalent stiffness seat suspension 2020 , 79-119		
389	Active seat suspension control algorithm 2020 , 209-242		1
388	Hybrid active and semi-active seat suspension 2020 , 245-265		
387	A new AI-surrogate model for dynamics analysis of a magnetorheological damper in the semi-active seat suspension. <i>Smart Materials and Structures</i> , 2020 , 29, 037001	3.4	9
386	Particle-Based Porous Materials for the Rapid and Spontaneous Diffusion of Liquid Metals. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 11163-11170	9.5	8
385	Liquid metal droplet robot. <i>Applied Materials Today</i> , 2020 , 19, 100597	6.6	29

384	Solar medium-low temperature thermal utilization and effect analysis of boundary condition: A tutorial. <i>Solar Energy</i> , 2020 , 197, 238-253	6.8	10
383	Modeling and Motion Control of a Liquid Metal Droplet in a Fluidic Channel. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 942-950	5.5	8
382	Microscopic characteristics of magnetorheological fluids subjected to magnetic fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 501, 166443	2.8	19
381	Controllable Electrically Interconnected Suspension System for Improving Vehicle Vibration Performance. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 859-871	5.5	14
380	Compensation of Geometric Parameter Errors for Terrestrial Laser Scanner by Integrating Intensity Correction. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 7483-7495	8.1	2
379	A Takagi-Sugeno Fuzzy Model-Based Control Strategy for Variable Stiffness and Variable Damping Suspension. <i>IEEE Access</i> , 2020 , 8, 71628-71641	3.5	1
378	Integration of an omnidirectional self-powering component to an MRE isolator towards a smart passive isolation system. <i>Mechanical Systems and Signal Processing</i> , 2020 , 144, 106853	7.8	4
377	Singular System-Based Approach for Active Vibration Control of Vehicle Seat Suspension. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2020 , 142,	1.6	3
376	2D magnetic field sensing array using face-shear mode PMN-PT/Metglas composite. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 455306	3	0
375	Vibration suppression of tunnel boring machines using non-resonance approach. <i>Mechanical Systems and Signal Processing</i> , 2020 , 145, 106969	7.8	14
374	A controllable mechanical motion rectifier-based semi-active magnetorheological inerter for vibration control. <i>Smart Materials and Structures</i> , 2020 , 29, 114005	3.4	4
373	Recent progress of magnetorheological elastomers: a review. <i>Smart Materials and Structures</i> , 2020 , 29, 123002	3.4	38
372	A review of heat and mass transfer mechanisms of dehumidifiers and regenerators for liquid desiccant cooling systems. <i>Science and Technology for the Built Environment</i> , 2020 , 26, 465-483	1.8	2
371	Comparison of dynamic models based on backbone curve for rotary magneto-rheological damper. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020 , 234, 2732-2740	1.3	2
370	Focusing of sub-micrometer particles in microfluidic devices. <i>Lab on A Chip</i> , 2020 , 20, 35-53	7.2	43
369	Investigation of humping phenomenon for the multi-directional robotic wire and arc additive manufacturing. <i>Robotics and Computer-Integrated Manufacturing</i> , 2020 , 63, 101916	9.2	20
368	Development of a smart rubber joint for train using shear thickening fluids. <i>Smart Materials and Structures</i> , 2020 , 29, 055036	3.4	4
367	The variable resonance magnetorheological pendulum tuned mass damper: Mathematical modelling and seismic experimental studies. <i>Journal of Intelligent Material Systems and Structures</i> , 2020 , 31, 263-276	2.3	5

366	A mini review of recent progress on vortex-induced vibrations of marine risers. <i>Ocean Engineering</i> , 2020 , 195, 106704	3.9	42
365	High sensitivity face shear magneto-electric composite array for weak magnetic field sensing. <i>Journal of Applied Physics</i> , 2020 , 128, 064102	2.5	2
364	Modular and Integrated Systems for Nanoparticle and Microparticle Synthesis-A Review. <i>Biosensors</i> , 2020 , 10,	5.9	8
363	Densely Connected Deep Extreme Learning Machine Algorithm. <i>Cognitive Computation</i> , 2020 , 12, 979-990	4.4	10
362	Programmable Digital Liquid Metal Droplets in Reconfigurable Magnetic Fields. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37670-37679	9.5	15
361	Modular off-chip emulsion generator enabled by a revolving needle. <i>Lab on A Chip</i> , 2020 , 20, 4592-4599	7.2	5
360	. <i>IEEE Access</i> , 2020 , 8, 212055-212065	3.5	0
359	Four-Wheel Electric Braking System Configuration With New Braking Torque Distribution Strategy for Improving Energy Recovery Efficiency. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 21, 87-103	6.1	12
358	An Electromagnetic Variable Stiffness Device for Semiactive Seat Suspension Vibration Control. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 6773-6784	8.9	12
357	Development and evaluation of a versatile semi-active suspension system for high-speed railway vehicles. <i>Mechanical Systems and Signal Processing</i> , 2020 , 135, 106338	7.8	25
356	Development of a variable stiffness magnetorheological damper with self-powered generation capability. <i>Journal of Intelligent Material Systems and Structures</i> , 2020 , 31, 209-219	2.3	5
355	Application of Multidirectional Robotic Wire Arc Additive Manufacturing Process for the Fabrication of Complex Metallic Parts. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 454-464	11.9	18
354	A magnetorheological elastomer rail damper for wideband attenuation of rail noise and vibration. <i>Journal of Intelligent Material Systems and Structures</i> , 2020 , 31, 220-228	2.3	8
353	A review of heat and mass transfer improvement techniques for dehumidifiers and regenerators of liquid desiccant cooling systems. <i>Applied Thermal Engineering</i> , 2019 , 162, 114271	5.8	17
352	Magnetically- and Electrically-Controllable Functional Liquid Metal Droplets. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800694	6.8	34
351	Fundamentals of Differential Particle Inertial Focusing in Symmetric Sinusoidal Microchannels. <i>Analytical Chemistry</i> , 2019 , 91, 4077-4084	7.8	27
350	Rapid, one-step preparation of SERS substrate in microfluidic channel for detection of molecules and heavy metal ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 220, 117113	4.4	25
349	A Nanomechanical Analysis of Deformation Characteristics of 6H-SiC Using an Indenter and Abrasives in Different Fixed Methods. <i>Micromachines</i> , 2019 , 10,	3.3	3

348	Phase Separation in Liquid Metal Nanoparticles. <i>Matter</i> , 2019 , 1, 192-204	12.7	66
347	High-throughput production of uniformly sized liquid metal microdroplets using submerged electrodispersion. <i>Applied Physics Letters</i> , 2019 , 114, 154101	3.4	10
346	Numerical and experimental studies on a new variable stiffness and damping magnetorheological fluid damper. <i>Journal of Intelligent Material Systems and Structures</i> , 2019 , 30, 1639-1652	2.3	11
345	A rotary variable admittance device and its application in vehicle seat suspension vibration control. <i>Journal of the Franklin Institute</i> , 2019 , 356, 7873-7895	4	21
344	Liquid metal-filled magnetorheological elastomer with positive piezoconductivity. <i>Nature Communications</i> , 2019 , 10, 1300	17.4	167
343	Effect of temperature on the transmission characteristics of high-torque magnetorheological brakes. <i>Smart Materials and Structures</i> , 2019 , 28, 057002	3.4	24
342	Experimental testing and modelling of a rotary variable stiffness and damping shock absorber using magnetorheological technology. <i>Journal of Intelligent Material Systems and Structures</i> , 2019 , 30, 1453-1465	2.3	14
341	Rotation of Liquid Metal Droplets Solely Driven by the Action of Magnetic Fields. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1421	2.6	4
340	Automatic Morphology Control of Liquid Metal using a Combined Electrochemical and Feedback Control Approach. <i>Micromachines</i> , 2019 , 10,	3.3	7
339	A Robust Registration Method for Autonomous Driving Pose Estimation in Urban Dynamic Environment Using LiDAR. <i>Electronics (Switzerland)</i> , 2019 , 8, 43	2.6	11
338	Dean-flow-coupled elasto-inertial particle and cell focusing in symmetric serpentine microchannels. <i>Microfluidics and Nanofluidics</i> , 2019 , 23, 1	2.8	21
337	Non-linear tyre modelBased non-singular terminal sliding mode observer for vehicle velocity and side-slip angle estimation. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019 , 233, 38-54	1.4	6
336	Mode coupling chatter suppression for robotic machining using semi-active magnetorheological elastomers absorber. <i>Mechanical Systems and Signal Processing</i> , 2019 , 117, 221-237	7.8	41
335	A variable resonance magnetorheological-fluid-based pendulum tuned mass damper for seismic vibration suppression. <i>Mechanical Systems and Signal Processing</i> , 2019 , 116, 530-544	7.8	39
334	. <i>IEEE Sensors Journal</i> , 2019 , 19, 10753-10763	4	9
333	Sheathless separation of microalgae from bacteria using a simple straight channel based on viscoelastic microfluidics. <i>Lab on A Chip</i> , 2019 , 19, 2811-2821	7.2	22
332	A new robotic tactile sensor with bio-mimetic structural colour inspired by Morpho butterflies. <i>Bioinspiration and Biomimetics</i> , 2019 , 14, 056010	2.6	5
331	Design and testing of a novel two-way controllable overrunning clutch based magneto-rheological brake. <i>Smart Materials and Structures</i> , 2019 , 28, 095013	3.4	3

330	Measurement and prediction of granite damage evolution in deep mine seams using acoustic emission. <i>Measurement Science and Technology</i> , 2019 , 30, 114002	2	6
329	An electromagnetic variable inertance device for seat suspension vibration control. <i>Mechanical Systems and Signal Processing</i> , 2019 , 133, 106259	7.8	32
328	Development and evaluation of a highly adaptive MRF-based absorber with a large effective frequency range. <i>Smart Materials and Structures</i> , 2019 , 28, 105003	3.4	5
327	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 2019-2030	5.5	12
326	Vibration control of a tunnel boring machine using adaptive magnetorheological damper. <i>Smart Materials and Structures</i> , 2019 , 28, 115012	3.4	11
325	A highly stiffness-adjustable robot leg for enhancing locomotive performance. <i>Mechanical Systems and Signal Processing</i> , 2019 , 126, 458-468	7.8	11
324	Integrated trajectory planning and control for obstacle avoidance manoeuvre using non-linear vehicle MP algorithm. <i>IET Intelligent Transport Systems</i> , 2019 , 13, 385-397	2.4	3
323	High-Throughput, Off-Chip Microdroplet Generator Enabled by a Spinning Conical Frustum. <i>Analytical Chemistry</i> , 2019 , 91, 3725-3732	7.8	17
322	Robust Adaptive Sliding Mode PI Control for Active Vehicle Seat Suspension Systems 2019 ,		2
321	Optimizing Vibration Attenuation Performance of a Magnetorheological Damper-Based Semi-active Seat Suspension Using Artificial Intelligence. <i>Frontiers in Materials</i> , 2019 , 6,	4	9
320	A Controllable Untethered Vehicle Driven by Electrically Actuated Liquid Metal Droplets. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 2535-2543	11.9	15
319	A New Generation of Magnetorheological Vehicle Suspension System With Tunable Stiffness and Damping Characteristics. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 4696-4708	11.9	29
318	Top sheath flow-assisted secondary flow particle manipulation in microchannels with the slanted groove structure. <i>Microfluidics and Nanofluidics</i> , 2019 , 23, 1	2.8	3
317	Soft magneto-sensitive elastomer and polyvinylidene fluoride polymer based nonlinear piezoelectric energy harvesting: design, modelling and experiment. <i>Smart Materials and Structures</i> , 2019 , 28, 015031	3.4	9
316	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. <i>Energy Conversion and Management</i> , 2019 , 180, 598-608	10.6	25
315	Magneto-induced surface morphologies in magnetorheological elastomer films: an analytical study. <i>Smart Materials and Structures</i> , 2019 , 28, 045016	3.4	9
314	Functional Liquid Metal Nanoparticles Produced by Liquid-Based Nebulization. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800420	6.8	53
313	Phononic crystal lens with an asymmetric scatterer. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 025102	3	13

312	A novel empirical heat transfer model for a solar thermal storage process using phase change materials. <i>Energy</i> , 2019 , 168, 222-234	7.9	6
311	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 6108-6116	8.9	50
310	Enhanced Localization of Robotic Capsule Endoscopes Using Positron Emission Markers and Rigid-Body Transformation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 49, 1270-1284	7.3	14
309	Enhanced particle self-ordering in a double-layer channel. <i>Biomedical Microdevices</i> , 2018 , 20, 23	3.7	2
308	Microfluidic Mass Production of Stabilized and Stealthy Liquid Metal Nanoparticles. <i>Small</i> , 2018 , 14, e180118	7.8	
307	Tunable particle separation in a hybrid dielectrophoresis (DEP)- inertial microfluidic device. <i>Sensors and Actuators B: Chemical</i> , 2018 , 267, 14-25	8.5	64
306	On a CPG-Based Hexapod Robot: AmphiHex-II With Variable Stiffness Legs. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 542-551	5.5	37
305	. <i>IEEE Transactions on Energy Conversion</i> , 2018 , 33, 457-464	5.4	10
304	Liquid metal-based amalgamation-assisted lithography for fabrication of complex channels with diverse structures and configurations. <i>Lab on A Chip</i> , 2018 , 18, 785-792	7.2	18
303	Development of magnetorheological elastomersBased tuned mass damper for building protection from seismic events. <i>Journal of Intelligent Material Systems and Structures</i> , 2018 , 29, 1777-1789	2.3	25
302	Experimental Nonlinear Model Identification of a Highly Nonlinear Resonator. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2018 , 140,	1.6	2
301	Analysis of Magnetic Interaction in Remotely Controlled Magnetic Devices and its Application to a Capsule Robot for Drug Delivery. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 298-310	5.5	25
300	Magnetorheological technology for fabricating tunable solid electrolyte with enhanced conductivity and mechanical property. <i>Smart Materials and Structures</i> , 2018 , 27, 035022	3.4	5
299	Versatile Microfluidic Platforms Enabled by Novel Magnetorheological Elastomer Microactuators. <i>Advanced Functional Materials</i> , 2018 , 28, 1705484	15.6	50
298	A rapid, maskless 3D prototyping for fabrication of capillary circuits: Toward urinary protein detection. <i>Electrophoresis</i> , 2018 , 39, 957-964	3.6	4
297	Recent progress of particle migration in viscoelastic fluids. <i>Lab on A Chip</i> , 2018 , 18, 551-567	7.2	128
296	Design of a Single-Layer Microchannel for Continuous Sheathless Single-Stream Particle Inertial Focusing. <i>Analytical Chemistry</i> , 2018 , 90, 1786-1794	7.8	19
295	Vibration control of an energy regenerative seat suspension with variable external resistance. <i>Mechanical Systems and Signal Processing</i> , 2018 , 106, 94-113	7.8	48

294	. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 8080-8091	8.9	37
293	Simple, low-cost fabrication of semi-circular channel using the surface tension of solder paste and its application to microfluidic valves. <i>Electrophoresis</i> , 2018 , 39, 1460-1465	3.6	
292	Overcoming the conflict requirement between high-speed stability and curving trafficability of the train using an innovative magnetorheological elastomer rubber joint. <i>Journal of Intelligent Material Systems and Structures</i> , 2018 , 29, 214-222	2.3	6
291	Integrating photovoltaic thermal collectors and thermal energy storage systems using phase change materials with rotary desiccant cooling systems. <i>Sustainable Cities and Society</i> , 2018 , 36, 131-143 ^{10.1}		40
290	Development of a nonlinear adaptive absorber based on magnetorheological elastomer. <i>Journal of Intelligent Material Systems and Structures</i> , 2018 , 29, 194-204	2.3	14
289	Applications of shear thickening fluids: a review. <i>International Journal of Hydromechanics</i> , 2018 , 1, 238	4.2	12
288	A Liquid-Metal-Based Magnetoactive Slurry for Stimuli-Responsive Mechanically Adaptive Electrodes. <i>Advanced Materials</i> , 2018 , 30, e1802595	24	52
287	A Review on Chatter in Robotic Machining Process Regarding Both Regenerative and Mode Coupling Mechanism. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 2240-2251	5.5	42
286	Control of a multiple-DOF vehicle seat suspension with roll and vertical vibration. <i>Journal of Sound and Vibration</i> , 2018 , 435, 170-191	3.9	20
285	The effect of graphene on the yarn pull-out force and ballistic performance of Kevlar fabrics impregnated with shear thickening fluids. <i>Smart Materials and Structures</i> , 2018 , 27, 075048	3.4	33
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283	A portable, hand-powered microfluidic device for sorting of biological particles. <i>Microfluidics and Nanofluidics</i> , 2018 , 22, 1	2.8	20
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