

Weihua Li

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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	Fundamentals and applications of inertial microfluidics: a review. <i>Lab on A Chip</i> , 2016 , 16, 10-34	7.2	520
454	A state-of-the-art review on magnetorheological elastomer devices. <i>Smart Materials and Structures</i> , 2014 , 23, 123001	3.4	314
453	MR damper and its application for semi-active control of vehicle suspension system. <i>Mechatronics</i> , 2002 , 12, 963-973	3	300
452	Design and Experimental Evaluation of a Magnetorheological Brake. <i>International Journal of Advanced Manufacturing Technology</i> , 2003 , 21, 508-515	3.2	235
451	Lab on a chip for continuous-flow magnetic cell separation. <i>Lab on A Chip</i> , 2015 , 15, 959-70	7.2	232
450	Investigation on magnetorheological elastomers based on natural rubber. <i>Journal of Materials Science</i> , 2007 , 42, 5483-5489	4.3	223
449	Viscoelastic properties of MR elastomers under harmonic loading. <i>Rheologica Acta</i> , 2010 , 49, 733-740	2.3	205
448	Active droplet sorting in microfluidics: a review. <i>Lab on A Chip</i> , 2017 , 17, 751-771	7.2	177
447	Shear thickening fluids in protective applications: A review. <i>Progress in Polymer Science</i> , 2017 , 75, 48-72	29.6	173
446	A review of localization systems for robotic endoscopic capsules. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 2387-99	5	171
445	Microstructures and viscoelastic properties of anisotropic magnetorheological elastomers. <i>Smart Materials and Structures</i> , 2007 , 16, 2645-2650	3.4	170
444	Liquid metal-filled magnetorheological elastomer with positive piezoconductivity. <i>Nature Communications</i> , 2019 , 10, 1300	17.4	167
443	Effect of carbon black on the mechanical performances of magnetorheological elastomers. <i>Polymer Testing</i> , 2008 , 27, 340-345	4.5	140
442	Development of an MR-brake-based haptic device. <i>Smart Materials and Structures</i> , 2006 , 15, 1960-1966	3.4	139
441	Study on the damping properties of magnetorheological elastomers based on cis-polybutadiene rubber. <i>Polymer Testing</i> , 2008 , 27, 520-526	4.5	137
440	A review of microfabrication techniques and dielectrophoretic microdevices for particle manipulation and separation. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 063001	3	136
439	Inertial particle separation by differential equilibrium positions in a symmetrical serpentine micro-channel. <i>Scientific Reports</i> , 2014 , 4, 4527	4.9	130

438	A review on performance enhancement techniques for ambient vibration energy harvesters. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 71, 435-449	16.2	129
437	Recent progress of particle migration in viscoelastic fluids. <i>Lab on A Chip</i> , 2018 , 18, 551-567	7.2	128
436	Testing and steady state modeling of a linear MR damper under sinusoidal loading. <i>Smart Materials and Structures</i> , 2000 , 9, 95-102	3.4	122
435	Development and characterization of a magnetorheological elastomer based adaptive seismic isolator. <i>Smart Materials and Structures</i> , 2013 , 22, 035005	3.4	117
434	The rheology of shear thickening fluid (STF) and the dynamic performance of an STF-filled damper. <i>Smart Materials and Structures</i> , 2008 , 17, 035027	3.4	115
433	Design and Fabrication of Magnetically Functionalized Core/Shell Microspheres for Smart Drug Delivery. <i>Advanced Functional Materials</i> , 2009 , 19, 292-297	15.6	102
432	Semi-active variable stiffness vibration control of vehicle seat suspension using an MR elastomer isolator. <i>Smart Materials and Structures</i> , 2011 , 20, 105003	3.4	100
431	Multiplexing slanted spiral microchannels for ultra-fast blood plasma separation. <i>Lab on A Chip</i> , 2016 , 16, 2791-802	7.2	98
430	The rheology of shear thickening fluids with various ceramic particle additives. <i>Materials and Design</i> , 2016 , 104, 312-319	8.1	96
429	A highly adjustable magnetorheological elastomer base isolator for applications of real-time adaptive control. <i>Smart Materials and Structures</i> , 2013 , 22, 095020	3.4	95
428	A review of drug delivery systems for capsule endoscopy. <i>Advanced Drug Delivery Reviews</i> , 2014 , 71, 77-85.5	8.5	94
427	Particle inertial focusing and its mechanism in a serpentine microchannel. <i>Microfluidics and Nanofluidics</i> , 2014 , 17, 305-316	2.8	89
426	Development and simulation evaluation of a magnetorheological elastomer isolator for seat vibration control. <i>Journal of Intelligent Material Systems and Structures</i> , 2012 , 23, 1041-1048	2.3	86
425	Hybrid microfluidics combined with active and passive approaches for continuous cell separation. <i>Electrophoresis</i> , 2017 , 38, 238-249	3.6	85
424	Viscoelastic properties of MR fluids. <i>Smart Materials and Structures</i> , 1999 , 8, 460-468	3.4	84
423	Integrated Seat and Suspension Control for a Quarter Car With Driver Model. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 3893-3908	6.8	83
422	MRE Properties under Shear and Squeeze Modes and Applications. <i>Journal of Intelligent Material Systems and Structures</i> , 2010 , 21, 1471-1477	2.3	81
421	Finite Element Analysis and Simulation Evaluation of a Magnetorheological Valve. <i>International Journal of Advanced Manufacturing Technology</i> , 2003 , 21, 438-445	3.2	81

- 420 Microfluidic Mass Production of Stabilized and Stealthy Liquid Metal Nanoparticles. *Small*, **2018**, 14, e1800118 78
- 419 Co3O4 nanorods decorated reduced graphene oxide composite for oxygen reduction reaction in alkaline electrolyte. *Electrochemistry Communications*, **2013**, 34, 299-303 5.1 78
- 418 Takagi-Sugeno Fuzzy Control for Semi-Active Vehicle Suspension With a Magnetorheological Damper and Experimental Validation. *IEEE/ASME Transactions on Mechatronics*, **2017**, 22, 291-300 5.5 78
- 417 Experimental study and modeling of a novel magnetorheological elastomer isolator. *Smart Materials and Structures*, **2013**, 22, 117001 3.4 77
- 416 Microstructure and magnetorheology of graphite-based MR elastomers. *Rheologica Acta*, **2011**, 50, 825-836 3.6 77
- 415 A 2-DOF MR actuator joystick for virtual reality applications. *Sensors and Actuators A: Physical*, **2007**, 137, 308-320 3.9 75
- 414 Study on magnetorheological shear thickening fluid. *Smart Materials and Structures*, **2008**, 17, 015051 3.4 73
- 413 A Wheeled Robot Driven by a Liquid-Metal Droplet. *Advanced Materials*, **2018**, 30, e1805039 2.4 71
- 412 . *IEEE Transactions on Industrial Electronics*, **2016**, 63, 4357-4366 8.9 70
- 411 High throughput extraction of plasma using a secondary flow-aided inertial microfluidic device. *RSC Advances*, **2014**, 4, 33149 3.7 67
- 410 Disturbance observer based Takagi-Sugeno fuzzy control for an active seat suspension. *Mechanical Systems and Signal Processing*, **2017**, 93, 515-530 7.8 66
- 409 Phase Separation in Liquid Metal Nanoparticles. *Matter*, **2019**, 1, 192-204 12.7 66
- 408 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 7.8 66
- 407 The effect of carbide particle additives on rheology of shear thickening fluids **2016**, 28, 121-128 65
- 406 Tunable particle separation in a hybrid dielectrophoresis (DEP)- inertial microfluidic device. *Sensors and Actuators B: Chemical*, **2018**, 267, 14-25 8.5 64
- 405 State of the art of control schemes for smart systems featuring magneto-rheological materials. *Smart Materials and Structures*, **2016**, 25, 043001 3.4 64
- 404 Fabrication and characterization of PDMS based magnetorheological elastomers. *Smart Materials and Structures*, **2013**, 22, 055035 3.4 64
- 403 A novel magnetorheological elastomer isolator with negative changing stiffness for vibration reduction. *Smart Materials and Structures*, **2014**, 23, 105023 3.4 62

402	A seat suspension with a rotary magnetorheological damper for heavy duty vehicles. <i>Smart Materials and Structures</i> , 2016 , 25, 105032	3.4	62
401	Isolating plasma from blood using a dielectrophoresis-active hydrophoretic device. <i>Lab on A Chip</i> , 2014 , 14, 2993-3003	7.2	61
400	A Compact Variable Stiffness and Damping Shock Absorber for Vehicle Suspension. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 2621-2629	5.5	60
399	A novel viscoelastic-based ferrofluid for continuous sheathless microfluidic separation of nonmagnetic microparticles. <i>Lab on A Chip</i> , 2016 , 16, 3947-3956	7.2	58
398	A study of the magnetorheological effect of bimodal particle based magnetorheological elastomers. <i>Smart Materials and Structures</i> , 2010 , 19, 035002	3.4	58
397	Analysis and fabrication of patterned magnetorheological elastomers. <i>Smart Materials and Structures</i> , 2008 , 17, 045001	3.4	58
396	Sonication-enabled rapid production of stable liquid metal nanoparticles grafted with poly(1-octadecene-alt-maleic anhydride) in aqueous solutions. <i>Nanoscale</i> , 2018 , 10, 19871-19878	7.7	58
395	An active seat suspension design for vibration control of heavy-duty vehicles. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2016 , 35, 264-278	1.5	57
394	Active control of an innovative seat suspension system with acceleration measurement based friction estimation. <i>Journal of Sound and Vibration</i> , 2016 , 384, 28-44	3.9	57
393	Design and fabrication of microfluidic mixer from carbonyl iron@DMS composite membrane. <i>Microfluidics and Nanofluidics</i> , 2011 , 10, 919-925	2.8	56
392	Fault-tolerant control of electric vehicles with in-wheel motors using actuator-grouping sliding mode controllers. <i>Mechanical Systems and Signal Processing</i> , 2016 , 72-73, 462-485	7.8	55
391	Reduced graphene oxide@uprous oxide composite via facial deposition for photocatalytic dye-degradation. <i>Journal of Alloys and Compounds</i> , 2013 , 568, 26-35	5.7	55
390	Sensing capabilities of graphite based MR elastomers. <i>Smart Materials and Structures</i> , 2011 , 20, 025022	3.4	55
389	A Potential Field Approach-Based Trajectory Control for Autonomous Electric Vehicles With In-Wheel Motors. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017 , 18, 2044-2055	6.1	54
388	Microstructure and magnetorheological properties of the thermoplastic magnetorheological elastomer composites containing modified carbonyl iron particles and poly(styrene-b-ethylene-ethylenepropylene-b-styrene) matrix. <i>Smart Materials and Structures</i> , 2012 , 21, 115028	3.4	53
387	Functional Liquid Metal Nanoparticles Produced by Liquid-Based Nebulization. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800420	6.8	53
386	A Liquid-Metal-Based Magnetoactive Slurry for Stimuli-Responsive Mechanically Adaptive Electrodes. <i>Advanced Materials</i> , 2018 , 30, e1802595	24	52
385	Damping of Magnetorheological Elastomers. <i>Chinese Journal of Chemical Physics</i> , 2008 , 21, 581-585	0.9	52

384	A 3D paired microelectrode array for accumulation and separation of microparticles. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 1162-1169	2	51
383	Research and Applications of MR Elastomers. <i>Recent Patents on Mechanical Engineering</i> , 2008 , 1, 161-166	0.3	51
382	Versatile Microfluidic Platforms Enabled by Novel Magnetorheological Elastomer Microactuators. <i>Advanced Functional Materials</i> , 2018 , 28, 1705484	15.6	50
381	Development of an isolator working with magnetorheological elastomers and fluids. <i>Mechanical Systems and Signal Processing</i> , 2017 , 83, 371-384	7.8	50
380	Experimental investigation of the vibration characteristics of a magnetorheological elastomer sandwich beam under non-homogeneous small magnetic fields. <i>Smart Materials and Structures</i> , 2011 , 20, 127001	3.4	50
379	Bioparticle separation and manipulation using dielectrophoresis. <i>Sensors and Actuators A: Physical</i> , 2007 , 133, 329-334	3.9	50
378	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 6108-6116	8.9	50
377	The development of an adaptive tuned magnetorheological elastomer absorber working in squeeze mode. <i>Smart Materials and Structures</i> , 2014 , 23, 075009	3.4	49
376	An effective permeability model to predict field-dependent modulus of magnetorheological elastomers. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008 , 13, 1910-1916	3.7	49
375	An adaptive tuned vibration absorber based on multilayered MR elastomers. <i>Smart Materials and Structures</i> , 2015 , 24, 045045	3.4	48
374	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
373	Dynamic behavior of MR suspensions at moderate flux densities. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 371, 9-15	5.3	48
372	Experimental investigation of creep and recovery behaviors of magnetorheological fluids. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 333, 368-376	5.3	47
371	Dean-flow-coupled elasto-inertial three-dimensional particle focusing under viscoelastic flow in a straight channel with asymmetrical expansion-contraction cavity arrays. <i>Biomicrofluidics</i> , 2015 , 9, 044108	3.2	45
370	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
369	Real-time control of inertial focusing in microfluidics using dielectrophoresis (DEP). <i>RSC Advances</i> , 2014 , 4, 62076-62085	3.7	44
368	Magnetorheological Elastomers and Their Applications. <i>Advanced Structured Materials</i> , 2013 , 357-374	0.6	44
367	Direct voltage control of magnetorheological damper for vehicle suspensions. <i>Smart Materials and Structures</i> , 2013 , 22, 105016	3.4	43

366	Focusing of sub-micrometer particles in microfluidic devices. <i>Lab on A Chip</i> , 2020 , 20, 35-53	7.2	43
365	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
364	Thixotropy of MR shear-thickening fluids. <i>Smart Materials and Structures</i> , 2010 , 19, 125012	3.4	42
363	A mini review of recent progress on vortex-induced vibrations of marine risers. <i>Ocean Engineering</i> , 2020 , 195, 106704	3.9	42
362	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
361	Liquid Metal Composites with Anisotropic and Unconventional Piezoconductivity. <i>Matter</i> , 2020 , 3, 824-841	4.7	40
360	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
359	Modeling and experimental characterization of propulsion of a spiral-type microrobot for medical use in gastrointestinal tract. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 1751-9	5	40
358	Negative Pressure Induced Droplet Generation in a Microfluidic Flow-Focusing Device. <i>Analytical Chemistry</i> , 2017 , 89, 4387-4391	7.8	39
357	Development of a novel variable stiffness and damping magnetorheological fluid damper. <i>Smart Materials and Structures</i> , 2015 , 24, 085021	3.4	39
356	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
355	Inertial focusing in a straight channel with asymmetrical expansion/contraction cavity arrays using two secondary flows. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 085023	2	39
354	Development of a torsional dynamic absorber using a magnetorheological elastomer for vibration reduction of a powertrain test rig. <i>Journal of Intelligent Material Systems and Structures</i> , 2013 , 24, 2036-2044	2.3	39
353	A simple and cost-effective method for fabrication of integrated electronic-microfluidic devices using a laser-patterned PDMS layer. <i>Microfluidics and Nanofluidics</i> , 2012 , 12, 751-760	2.8	39
352	Horizontal vibration reduction of a seat suspension using negative changing stiffness magnetorheological elastomer isolators. <i>International Journal of Vehicle Design</i> , 2015 , 68, 104	2.4	38
351	A novel method to construct 3D electrodes at the sidewall of microfluidic channel. <i>Microfluidics and Nanofluidics</i> , 2013 , 14, 499-508	2.8	38
350	Recent progress of magnetorheological elastomers: a review. <i>Smart Materials and Structures</i> , 2020 , 29, 123002	3.4	38
349	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

348	. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 8080-8091	8.9	37
347	Microdroplet-based universal logic gates by electrorheological fluid. <i>Soft Matter</i> , 2011 , 7, 7493	3.6	37
346	Continuous plasma extraction under viscoelastic fluid in a straight channel with asymmetrical expansion-contraction cavity arrays. <i>Lab on A Chip</i> , 2016 , 16, 3919-3928	7.2	36
345	Continuous manipulation and separation of particles using combined obstacle- and curvature-induced direct current dielectrophoresis. <i>Electrophoresis</i> , 2013 , 34, 952-60	3.6	36
344	Performance evaluation and comparison of magnetorheological elastomer absorbers working in shear and squeeze modes. <i>Journal of Intelligent Material Systems and Structures</i> , 2015 , 26, 1757-1763	2.3	35
343	Modelling and identifying the parameters of a magneto-rheological damper with a force-lag phenomenon. <i>Applied Mathematical Modelling</i> , 2014 , 38, 3763-3773	4.5	35
342	On-chip high-throughput manipulation of particles in a dielectrophoresis-active hydrophoretic focuser. <i>Scientific Reports</i> , 2014 , 4, 5060	4.9	35
341	Improved concentration and separation of particles in a 3D dielectrophoretic chip integrating focusing, aligning and trapping. <i>Microfluidics and Nanofluidics</i> , 2013 , 14, 527-539	2.8	35
340	Smart multifunctional fluids for lithium ion batteries: enhanced rate performance and intrinsic mechanical protection. <i>Scientific Reports</i> , 2013 , 3, 2485	4.9	35
339	Magnetically- and Electrically-Controllable Functional Liquid Metal Droplets. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800694	6.8	34
338	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
337	Development of a force sensor working with MR elastomers 2009 ,		33
336	An electromagnetic variable inertance device for seat suspension vibration control. <i>Mechanical Systems and Signal Processing</i> , 2019 , 133, 106259	7.8	32
335	Continuous particle focusing in a waved microchannel using negative dc dielectrophoresis. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 095001	2	32
334	Nonlinear rheological behavior of magnetorheological fluids: step-strain experiments. <i>Smart Materials and Structures</i> , 2002 , 11, 209-217	3.4	32
333	Hybrid-Filler Stretchable Conductive Composites: From Fabrication to Application. <i>Small Science</i> , 2021 , 1, 2000080		32
332	Investigation of particle lateral migration in sample-sheath flow of viscoelastic fluid and Newtonian fluid. <i>Electrophoresis</i> , 2016 , 37, 2147-55	3.6	32
331	Vibration reduction of seat suspension using observer based terminal sliding mode control with acceleration data fusion. <i>Mechatronics</i> , 2017 , 44, 71-83	3	31

330	Modeling and Experimental Investigation of Rotational Resistance of a Spiral-Type Robotic Capsule Inside a Real Intestine. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013 , 18, 1555-1562	5.5	31
329	Side-slip angle estimation based lateral dynamics control for omni-directional vehicles with optimal steering angle and traction/brake torque distribution. <i>Mechatronics</i> , 2015 , 30, 348-362	3	31
328	Improving the critical speeds of high-speed trains using magnetorheological technology. <i>Smart Materials and Structures</i> , 2013 , 22, 115012	3.4	31
327	Experimental and modelling study of the effect of temperature on shear thickening fluids 2015 , 27, 17-24		30
326	On-Chip Microparticle and Cell Washing Using Coflow of Viscoelastic Fluid and Newtonian Fluid. <i>Analytical Chemistry</i> , 2017 , 89, 9574-9582	7.8	30
325	Liquid metal droplet robot. <i>Applied Materials Today</i> , 2020 , 19, 100597	6.6	29
324	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
323	Comparison of rheological behaviors with fumed silica-based shear thickening fluids 2016 , 28, 197-205		28
322	Trajectory control for autonomous electric vehicles with in-wheel motors based on a dynamics model approach. <i>IET Intelligent Transport Systems</i> , 2016 , 10, 318-330	2.4	28
321	Factors governing mass transfer during membrane electrodialysis regeneration of LiCl solution for liquid desiccant dehumidification systems. <i>Sustainable Cities and Society</i> , 2017 , 28, 30-41	10.1	28
320	High-throughput particle manipulation by hydrodynamic, electrokinetic, and dielectrophoretic effects in an integrated microfluidic chip. <i>Biomicrofluidics</i> , 2013 , 7, 24106	3.2	28
319	Effect of maleic anhydride on the damping property of magnetorheological elastomers. <i>Smart Materials and Structures</i> , 2010 , 19, 055015	3.4	28
318	A Structural Optimisation Method for a Soft Pneumatic Actuator. <i>Robotics</i> , 2018 , 7, 24	2.8	28
317	Fundamentals of Differential Particle Inertial Focusing in Symmetric Sinusoidal Microchannels. <i>Analytical Chemistry</i> , 2019 , 91, 4077-4084	7.8	27
316	A hybrid dielectrophoretic and hydrophoretic microchip for particle sorting using integrated prefocusing and sorting steps. <i>Electrophoresis</i> , 2015 , 36, 284-91	3.6	27
315	Dynamic response of symmetrical and asymmetrical sandwich plates with shear thickening fluid core subjected to penetration loading. <i>Materials and Design</i> , 2016 , 94, 105-110	8.1	27
314	An Adaptive Neuro Fuzzy Hybrid Control Strategy for a Semiactive Suspension with Magneto Rheological Damper. <i>Advances in Mechanical Engineering</i> , 2014 , 6, 487312	1.2	27
313	High-Throughput Separation of White Blood Cells From Whole Blood Using Inertial Microfluidics. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017 , 11, 1422-1430	5.1	27

312	Analysis of a compact annular-radial-orifice flow magnetorheological valve and evaluation of its performance. <i>Journal of Intelligent Material Systems and Structures</i> , 2017 , 28, 1322-1333	2.3	26
311	Magnetorheology of single-walled nanotube dispersions. <i>Materials Letters</i> , 2007 , 61, 3116-3118	3.3	26
310	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
309	Side-slip angle estimation and stability control for a vehicle with a non-linear tyre model and a varying speed. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2015 , 229, 486-505	1.4	25
308	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
307	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
306	A hybrid magnetorheological elastomer-fluid (MRE-F) isolation mount: development and experimental validation. <i>Smart Materials and Structures</i> , 2016 , 25, 015026	3.4	25
305	Comparative study of vehicle tyreRoad friction coefficient estimation with a novel cost-effective method. <i>Vehicle System Dynamics</i> , 2014 , 52, 1066-1098	2.8	25
304	Two-layer structure based adaptive estimation for vehicle mass and road slope under longitudinal motion. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017 , 95, 439-455	4.6	25
303	An Effective Localization Method for Robotic Endoscopic Capsules Using Multiple Positron Emission Markers. <i>IEEE Transactions on Robotics</i> , 2014 , 30, 1174-1186	6.5	25
302	Study of shear-stiffened elastomers. <i>Smart Materials and Structures</i> , 2012 , 21, 125009	3.4	25
301	A tunable magneto-rheological fluid-filled beam-like vibration absorber. <i>Smart Materials and Structures</i> , 2010 , 19, 055020	3.4	25
300	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
299	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
298	Unconventional locomotion of liquid metal droplets driven by magnetic fields. <i>Soft Matter</i> , 2018 , 14, 7113-7118	3.6	25
297	Sheathless Dean-flow-coupled elasto-inertial particle focusing and separation in viscoelastic fluid. <i>RSC Advances</i> , 2017 , 7, 3461-3469	3.7	24
296	Effect of temperature on the transmission characteristics of high-torque magnetorheological brakes. <i>Smart Materials and Structures</i> , 2019 , 28, 057002	3.4	24
295	A Review of Secondary Flow in Inertial Microfluidics. <i>Micromachines</i> , 2020 , 11,	3.3	24

294	Numerical modeling of dielectrophoresis using a meshless approach. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 1040-1048	2	24
293	High-throughput sheathless and three-dimensional microparticle focusing using a microchannel with arc-shaped groove arrays. <i>Scientific Reports</i> , 2017 , 7, 41153	4.9	23
292	Fabrication and characterization of a magnetic micro-actuator based on deformable Fe-doped PDMS artificial cilium using 3D printing. <i>Smart Materials and Structures</i> , 2015 , 24, 035015	3.4	23
291	Development of adaptive seismic isolators for ultimate seismic protection of civil structures 2013 ,		23
290	Design and development of a novel displacement differential self-induced magnetorheological damper. <i>Journal of Intelligent Material Systems and Structures</i> , 2015 , 26, 527-540	2.3	22
289	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
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90	Kinematic analysis of electroactive polymer actuators as soft and smart structures with more DoF than inputs 2012 ,		3
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18	Single-DOF active seat suspension 2020 , 171-179		
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