

# Yancheng Li

## List of Publications by Year in descending order

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102  
papers

2,509  
citations

257101

24  
h-index

223531

46  
g-index

107  
all docs

107  
docs citations

107  
times ranked

1459  
citing authors

#	ARTICLE	IF	CITATIONS
1	A state-of-the-art review on magnetorheological elastomer devices. <i>Smart Materials and Structures</i> , 2014, 23, 123001.	1.8	438
2	Development and characterization of a magnetorheological elastomer based adaptive seismic isolator. <i>Smart Materials and Structures</i> , 2013, 22, 035005.	1.8	153
3	A highly adjustable magnetorheological elastomer base isolator for applications of real-time adaptive control. <i>Smart Materials and Structures</i> , 2013, 22, 095020.	1.8	127
4	A state-of-the-art on self-sensing concrete: Materials, fabrication and properties. <i>Composites Part B: Engineering</i> , 2019, 177, 107437.	5.9	121
5	Experimental study and modeling of a novel magnetorheological elastomer isolator. <i>Smart Materials and Structures</i> , 2013, 22, 117001.	1.8	111
6	Negative stiffness devices for vibration isolation applications: A review. <i>Advances in Structural Engineering</i> , 2020, 23, 1739-1755.	1.2	95
7	Piezoelectric energy harvesting from traffic-induced pavement vibrations. <i>Journal of Renewable and Sustainable Energy</i> , 2014, 6, .	0.8	78
8	Semi-active control of magnetorheological elastomer base isolation system utilising learning-based inverse model. <i>Journal of Sound and Vibration</i> , 2017, 406, 346-362.	2.1	71
9	Experimental study of semi-active magnetorheological elastomer base isolation system using optimal neuro fuzzy logic control. <i>Mechanical Systems and Signal Processing</i> , 2019, 119, 380-398.	4.4	56
10	Nonparametric modeling of magnetorheological elastomer base isolator based on artificial neural network optimized by ant colony algorithm. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 1789-1798.	1.4	51
11	Advancement in energy harvesting magneto-rheological fluid damper: A review. <i>Korea Australia Rheology Journal</i> , 2016, 28, 355-379.	0.7	47
12	Parameter identification of a novel strain stiffening model for magnetorheological elastomer base isolator utilizing enhanced particle swarm optimization. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 2446-2462.	1.4	45
13	A Highly Adjustable Base Isolator Utilizing Magnetorheological Elastomer: Experimental Testing and Modeling. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2015, 137, .	1.0	44
14	Parameter identification and sensitivity analysis of an improved LuGre friction model for magnetorheological elastomer base isolator. <i>Meccanica</i> , 2015, 50, 2691-2707.	1.2	41
15	Effect of temperature on rheological properties of lithium-based magnetorheological grease. <i>Smart Materials and Structures</i> , 2019, 28, 035002.	1.8	41
16	Stretchable polyurethane composite foam triboelectric nanogenerator with tunable microwave absorption properties at elevated temperature. <i>Nano Energy</i> , 2021, 89, 106397.	8.2	37
17	A hysteresis model for dynamic behaviour of magnetorheological elastomer base isolator. <i>Smart Materials and Structures</i> , 2016, 25, 055029.	1.8	35
18	Self-adaptive step fruit fly algorithm optimized support vector regression model for dynamic response prediction of magnetorheological elastomer base isolator. <i>Neurocomputing</i> , 2016, 211, 41-52.	3.5	34

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19	Comparative Investigation of Phenomenological Modeling for Hysteresis Responses of Magnetorheological Elastomer Devices. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3216.	1.8	32
20	Finite element design and analysis of adaptive base isolator utilizing laminated multiple magnetorheological elastomer layers. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 1861-1870.	1.4	31
21	Magnetorheological elastomer base isolator for earthquake response mitigation on building structures: modeling and second-order sliding mode control. <i>Earthquake and Structures</i> , 2016, 11, 943-966.	1.0	31
22	Design, modeling, and controlling of a large-scale magnetorheological shock absorber under high impact load. <i>Journal of Intelligent Material Systems and Structures</i> , 2012, 23, 635-645.	1.4	27
23	Development of adaptive seismic isolators for ultimate seismic protection of civil structures. <i>Proceedings of SPIE</i> , 2013, , .	0.8	27
24	Transient multi-physics analysis of a magnetorheological shock absorber with the inverse Jiles–Atherton hysteresis model. <i>Smart Materials and Structures</i> , 2015, 24, 105024.	1.8	27
25	Viscoelastic and Magnetically Aligned Flaky Fe-Based Magnetorheological Elastomer Film for Wide-Bandwidth Electromagnetic Wave Absorption. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 3425-3437.	1.8	26
26	Experimental realisation of the real-time controlled smart magnetorheological elastomer seismic isolation system with shake table. <i>Structural Control and Health Monitoring</i> , 2020, 27, e2476.	1.9	25
27	Dynamic modelling and control of shear-mode rotational MR damper for mitigating hazard vibration of building structures. <i>Smart Materials and Structures</i> , 2020, 29, 114006.	1.8	25
28	Forecasting hysteresis behaviours of magnetorheological elastomer base isolator utilizing a hybrid model based on support vector regression and improved particle swarm optimization. <i>Smart Materials and Structures</i> , 2015, 24, 035025.	1.8	24
29	Investigations on response time of magnetorheological elastomer isolator for real-time control implementation. <i>Smart Materials and Structures</i> , 2016, 25, 11LT04.	1.8	24
30	Vibration control of jacket offshore platform through magnetorheological elastomer (MRE) based isolation system. <i>Applied Ocean Research</i> , 2021, 114, 102779.	1.8	24
31	Design and multi-physics optimization of a novel magnetorheological damper with a variable resistance gap. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 3152-3168.	1.1	23
32	Vibration control of offshore wind turbine under multiple hazards using single variable-stiffness tuned mass damper. <i>Ocean Engineering</i> , 2021, 236, 109473.	1.9	23
33	Two-dimensional magnetic property measurement for magneto-rheological elastomer. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	22
34	A new class of magnetorheological elastomers based on waste tire rubber and the characterization of their properties. <i>Smart Materials and Structures</i> , 2016, 25, 115002.	1.8	22
35	Dynamic Simulation and Test Verification of MR Shock Absorber under Impact Load. <i>Journal of Intelligent Material Systems and Structures</i> , 2006, 17, 309-314.	1.4	21
36	Electromechanical modeling and experimental analysis of a compression-based piezoelectric vibration energy harvester. <i>International Journal of Smart and Nano Materials</i> , 2014, 5, 152-168.	2.0	20

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37	Accelerated thermal aging of grease-based magnetorheological fluids and their lifetime prediction. <i>Materials Research Express</i> , 2018, 5, 085702.	0.8	17
38	Rheological Properties of Polyurethane-Based Magnetorheological Gels. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	17
39	Performance of a semi-active/passive integrated isolator based on a magnetorheological elastomer and spring. <i>Smart Materials and Structures</i> , 2017, 26, 095024.	1.8	16
40	Modified Adaptive Negative Stiffness Device with Variable Negative Stiffness and Geometrically Nonlinear Damping for Seismic Protection of Structures. <i>International Journal of Structural Stability and Dynamics</i> , 0, , 2150107.	1.5	16
41	Frequency control of smart base isolation system employing a novel adaptive magneto-rheological elastomer base isolator. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 849-858.	1.4	15
42	Temperature-Dependent Electromagnetic Microwave Absorbing Characteristics of Stretchable Polyurethane Composite Foams with Ultrawide Bandwidth. <i>Advanced Engineering Materials</i> , 2022, 24, 2101489.	1.6	14
43	Nonlinear Characterization of the MRE Isolator Using Binary-Coded Discrete CSO and ELM. <i>International Journal of Structural Stability and Dynamics</i> , 2018, 18, 1840007.	1.5	13
44	A simplified design method of tuned inerter damper for damped civil structures: Theory, validation, and application. <i>Structural Control and Health Monitoring</i> , 2021, 28, e2798.	1.9	13
45	Neuro fuzzy logic control of magnetorheological elastomer isolation system for vibration mitigation of offshore jacket platforms. <i>Ocean Engineering</i> , 2022, 253, 111293.	1.9	13
46	Experimental analysis of separately controlled multi-coils on the performance of magnetorheological absorber under impact loading. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 887-897.	1.4	12
47	A dual-loop adaptive control for minimizing time response delay in real-time structural vibration control with magnetorheological (MR) devices. <i>Smart Materials and Structures</i> , 2018, 27, 015005.	1.8	12
48	Mitigating jacket offshore platform vibration under earthquake and ocean waves utilizing tuned inerter damper. <i>Bulletin of Earthquake Engineering</i> , 2023, 21, 1627-1650.	2.3	12
49	Highly stretchable and self-foaming polyurethane composite skeleton with thermally tunable microwave absorption properties. <i>Nanotechnology</i> , 2021, 32, 225703.	1.3	11
50	A novel structural seismic protection system with negative stiffness and controllable damping. <i>Structural Control and Health Monitoring</i> , 2021, 28, e2810.	1.9	11
51	Thixotropy of magnetorheological gel composites: Experimental testing and modelling. <i>Composites Science and Technology</i> , 2021, 214, 108996.	3.8	11
52	Design and modelling of a novel linear electromagnetic vibration energy harvester. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2014, 46, 165-183.	0.3	10
53	Characterization of nonlinear viscoelasticity of magnetorheological grease under large oscillatory shear by using Fourier transform-Chebyshev analysis. <i>Journal of Intelligent Material Systems and Structures</i> , 2021, 32, 614-631.	1.4	10
54	On rate-dependent mechanical model for adaptive magnetorheological elastomer base isolator. <i>Smart Materials and Structures</i> , 2017, 26, 045001.	1.8	9

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55	Development of a four-parameter phenomenological model for the nonlinear viscoelastic behaviour of magnetorheological gels. <i>Materials and Design</i> , 2020, 194, 108935.	3.3	9
56	Improved magnetic circuit analysis of a laminated magnetorheological elastomer device featuring both permanent magnets and electromagnets. <i>Smart Materials and Structures</i> , 2020, 29, 085054.	1.8	9
57	Semi-active storey isolation system employing MRE isolator with parameter identification based on NSGA-II with DCD. <i>Earthquake and Structures</i> , 2016, 11, 1101-1121.	1.0	9
58	Influence of inerter-based damper installations on control efficiency of building structures. <i>Structural Control and Health Monitoring</i> , 2022, 29, .	1.9	9
59	Modeling the non-linear rheological behavior of magnetorheological gel using a computationally efficient model. <i>Smart Materials and Structures</i> , 2020, 29, 105021.	1.8	8
60	Lyapunov-based Semi-active Control of Adaptive Base Isolation System employing Magnetorheological Elastomer base isolators. <i>Earthquake and Structures</i> , 2016, 11, 1077-1099.	1.0	8
61	A New Hysteretic Model for Magnetorheological Elastomer Base Isolator and Parameter Identification Based on Modified Artificial Fish Swarm Algorithm. , 2014, , .		8
62	On the magnetic field and temperature monitoring of a solenoid coil for a novel magnetorheological elastomer base isolator. <i>Journal of Physics: Conference Series</i> , 2013, 412, 012033.	0.3	7
63	Hysteresis Modeling of Smart Structure MR Devices using Describing Functions. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, , 1-1.	3.7	7
64	Investigation of dynamic properties of isotropic and anisotropic magnetorheological elastomers with a hybrid magnet shear test rig. <i>Smart Materials and Structures</i> , 2020, 29, 114001.	1.8	7
65	A novel adaptive base isolator utilising magnetorheological elastomer. , 2012, , 763-767.		7
66	Influence of particle morphology and concentration on the piezoresistivity of cement-based sensors with magneto-aligned nickel fillers. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 187, 110194.	2.5	7
67	Design considerations and experimental studies on semi-active smart pin joint. <i>Frontiers of Mechanical Engineering in China</i> , 2009, 4, 363-370.	0.4	6
68	Dynamic characteristics of a magnetorheological pin joint for civil structures. <i>Frontiers of Mechanical Engineering</i> , 2014, 9, 15-33.	2.5	6
69	A heavy-duty magnetorheological fluid mount with flow and squeeze model. <i>Smart Materials and Structures</i> , 2021, 30, 085012.	1.8	6
70	H2 and H $\infty$ optimal designs of tuned inerter dampers for base motion excited structures with inherent damping. <i>JVC/Journal of Vibration and Control</i> , 2023, 29, 3692-3707.	1.5	6
71	Energy harvesting for powering wireless sensor networks in low-frequency and large-force environments. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2015, 229, 1953-1964.	1.1	5
72	Aligning conductive particles using magnetic field for enhanced piezoresistivity of cementitious composites. <i>Construction and Building Materials</i> , 2021, 313, 125582.	3.2	5

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73	Investigation on controllability of a Magnetorheological gun recoil damper. , 2009, , .		4
74	Design of a novel linear permanent magnet vibration energy harvester. , 2013, , .		4
75	Feasibility study of a miniaturized magnetorheological grease timing trigger as safety and arming device for spinning projectile. Smart Materials and Structures, 2018, 27, 115030.	1.8	4
76	Multi-objective optimisation for improving the seismic protection performance of a multi-storey adaptive negative stiffness system based on modified NSGA-II with DCD. Journal of Building Engineering, 2021, 43, 103145.	1.6	4
77	Enhanced sensing performance of cement-based composites achieved via magnetically aligned nickel particle network. Composites Communications, 2022, 29, 101006.	3.3	4
78	THE DYNAMIC SIMULATION AND TEST VERIFICATION OF MR SHOCK ABSORBER UNDER IMPACT LOAD. , 2005, , .		3
79	Investigation on modeling and controability of a magnetorheological gun recoil damper. , 2009, , .		3
80	Dynamic Performance of a Novel Magnetorheological Pin Joint. Journal of System Design and Dynamics, 2011, 5, 706-715.	0.3	3
81	A piezoelectric wafer-stack vibration energy harvester for wireless sensor networks. Proceedings of SPIE, 2013, , .	0.8	3
82	Development and Modeling of a Highly-Adjustable Base Isolator Utilizing Magnetorheological Elastomer. , 2013, , .		3
83	Nonlinear and Hysteretic Modelling of Magnetorheological Elastomer Base Isolator Using Adaptive Neuro-Fuzzy Inference System. Applied Mechanics and Materials, 2016, 846, 258-263.	0.2	3
84	Dynamic Modeling and Its Sliding Controller of MR Shock Absorber under Impact Load. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2011, 47, 84.	0.7	3
85	Comprehensive Investigations on Magnetic Field Distribution in a Solenoid. , 2013, , .		2
86	Comparative Studies of Base Isolation Systems Featured with Lead Rubber Bearings and Friction Pendulum Bearings. Applied Mechanics and Materials, 0, 846, 114-119.	0.2	2
87	Fieldâ€™Frequency-Dependent Non-linear Rheological Behavior of Magnetorheological Grease Under Large Amplitude Oscillatory Shear. Frontiers in Materials, 2021, 8, .	1.2	2
88	Editorial: Synthesis, Characterization, and Applications of Magneto-Responsive Functional Materials. Frontiers in Materials, 2021, 8, .	1.2	2
89	Dynamic Property Optimization of a Vibration Isolator with Quasi-Zero Stiffness. , 2021, , 289-295.		2
90	Efficient and stable electrorheological fluids based on chestnut-like cobalt hydroxide coupled with surface-functionalized carbon dots. Soft Matter, 2022, 18, 3845-3855.	1.2	2

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91	Design and experimental testing of an adaptive magneto-rheological elastomer base isolator. , 2013, , .		1
92	A hysteresis model and parameter identification for MR pin joints using immune particle swarm optimization. , 2015, , .		1
93	Modeling and characterization of novel magnetorheological (MR) cell with individual currents. Journal of Central South University, 2015, 22, 2557-2567.	1.2	1
94	INVESTIGATION ON ITS VIBRATION-REDUCTION AND SHOCK-RESISTANT PROPERTIES OF A GUN RECOIL MECHANISM BASED ON MR DAMPER. , 2011, , .		0
95	Visualization of vortex motion in FeAs-based BaFe <sub>1.9</sub> Ni <sub>0.1</sub> As <sub>2</sub> single crystal by means of magneto-optical imaging. Journal of Applied Physics, 2011, 109, 07E142.	1.1	0
96	Sigmoid function-based hysteresis modeling of magnetorheological pin joints. , 2017, , .		0
97	A New Methodology of Modeling a Novel Large-scale Magnetorheological Impact Damper. , 2006, , .		0
98	Nonlinear Characteristics of Magnetorheological Damper under Base Excitation. , 2006, , .		0
99	Comprehensive Study on Controllability of a Large-Scale MR Shock Absorber Under High Impact Load. , 2007, , .		0
100	1A24 Dynamic Performance of A Novel Magnetorheological Pin Joint. The Proceedings of the Symposium on the Motion and Vibration Control, 2010, 2010, _1A24-1_-_1A24-8_.	0.0	0
101	Future Intelligent Civil Structures: Challenges and Opportunities. , 2014, , .		0
102	Development of smart base isolation system for civil structures utilising magnetorheological elastomer. , 2019, , 355-394.		0