

# Chang-Rong Liao

## List of Publications by Year in descending order

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27  
papers

383  
citations

1040056

9  
h-index

794594

19  
g-index

27  
all docs

27  
docs citations

27  
times ranked

333  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative research on semi-active control strategies for magneto-rheological suspension. <i>Nonlinear Dynamics</i> , 2010, 59, 433-453.	5.2	117
2	Dynamic mechanical properties of magnetorheological elastomers based on polyurethane matrix. <i>Polymer Composites</i> , 2016, 37, 1587-1595.	4.6	44
3	Long term stability of magnetorheological fluids using high viscosity linear polysiloxane carrier fluids. <i>Smart Materials and Structures</i> , 2016, 25, 075006.	3.5	33
4	Characterization of stratification for an opaque highly stable magnetorheological fluid using vertical axis inductance monitoring system. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	30
5	Magnetically induced robust anisotropic structure of multi-walled carbon nanotubes/Ni for high-performance flexible strain sensor. <i>Carbon</i> , 2022, 194, 185-196.	10.3	23
6	Impact behavior of a high viscosity magnetorheological fluid-based energy absorber with a radial flow mode. <i>Smart Materials and Structures</i> , 2017, 26, 025025.	3.5	21
7	Modeling and testing of magnetorheological energy absorbers considering inertia effect with non-averaged acceleration under impact conditions. <i>Smart Materials and Structures</i> , 2018, 27, 115028.	3.5	18
8	Piezo-capacitive behavior of a magnetically structured particle-based conductive polymer with high sensitivity and a wide working range. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5401-5411.	5.5	12
9	Effective design strategy for a high-viscosity magnetorheological fluid-based energy absorber with multi-stage radial flow mode. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 127-139.	2.5	11
10	A comparative analysis of magnetorheological energy absorber models under impact conditions. <i>Smart Materials and Structures</i> , 2019, 28, 067001.	3.5	10
11	Tribo-material based on a magnetic polymeric composite for enhancing the performance of triboelectric nanogenerator. <i>Nano Energy</i> , 2020, 78, 105402.	16.0	10
12	Study of radial flow mode magnetorheological energy absorber with center drain hole. <i>Smart Materials and Structures</i> , 2018, 27, 105008.	3.5	9
13	A design methodology based on full dynamic model for magnetorheological energy absorber equipped with disc springs. <i>Smart Materials and Structures</i> , 2019, 28, 065020.	3.5	8
14	Analytical modeling and experimental verification for linearly gradient thickness disk springs. <i>Thin-Walled Structures</i> , 2021, 167, 108153.	5.3	8
15	Capacitive pressure-sensitive composites using nickel-silicone rubber: experiments and modeling. <i>Smart Materials and Structures</i> , 2017, 26, 075003.	3.5	7
16	A theoretical analysis on crush characteristics of corrugated tube under axial impact and experimental verification. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	1.6	6
17	ANFIS with input space division for modeling magnetorheological energy absorber. <i>International Journal of Mechanical Sciences</i> , 2022, 221, 107183.	6.7	4
18	Synthesis and rheological characteristics of high viscosity linear polysiloxane carrier fluid-based magnetorheological fluids. <i>Smart Materials and Structures</i> , 2022, 31, 015041.	3.5	3

#	ARTICLE	IF	CITATIONS
19	Study on sliding friction characteristics of magnetorheological elastomer-copper pair affected by magnetic-controlled surface roughness and elastic modulus. Smart Materials and Structures, 2022, 31, 015030.	3.5	3
20	Rapid control prototyping development of intelligent control system of vehicle semi-active suspension. , 2008, , .		2
21	Capacitance creep and recovery behavior of magnetorheological elastomers. Journal of Intelligent Material Systems and Structures, 2020, , 1045389X2096991.	2.5	2
22	Unsteady extension of quasi-steady physical modeling and experimental verification of a magnetorheological energy absorber. Frontiers in Materials, 0, 9, .	2.4	1
23	Non-dimensional analysis of an unsteady flow in a magnetorheological damper. Physics of Fluids, 0, , .	4.0	1
24	Research on Vehicle Magneto-rheological Suspensions Vibration Control and Test. , 2006, , .		0
25	Attitude control for rapid robot with Human simulated intelligent control theory. , 2008, , .		0
26	A Dynamic Model and Parameter Identification of High Viscosity Magnetorheological Fluid-Based Energy Absorber with Radial Flow Mode. Molecules, 2021, 26, 7059.	3.8	0
27	Self-powered Vibration Detector for the Intelligent Vibration Control System Based on Triboelectric Nanogenerator. , 2022, , .		0