

# Ramin Sedaghati

## List of Publications by Year in descending order

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59  
papers

1,397  
citations

304743

22  
h-index

377865

34  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1085  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of an RVE using a DEM-FEM scheme under modified approximate periodic boundary condition to estimate the elastic mechanical properties of open foams. <i>Engineering With Computers</i> , 2022, 38, 1767-1785.	6.1	3
2	Development of New Phenomenological Models for Predicting Magnetic Permeability of Isotropic and Anisotropic Magneto-Rheological Elastomers. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-10.	4.7	7
3	Vertical Transient Response Analysis of a Cracked Jeffcott Rotor Based on Improved Empirical Mode Decomposition. <i>Vibration</i> , 2022, 5, 408-428.	1.9	0
4	A novel methodology for accurate estimation of magnetic permeability of magnetorheological elastomers. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 560, 169669.	2.3	7
5	Neural-Network-Based Sliding-Mode Control of an Uncertain Robot Using Dynamic Model Approximated Switching Gain. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 2339-2346.	9.5	73
6	Finite deformation analysis of isotropic magnetoactive elastomers. <i>Continuum Mechanics and Thermodynamics</i> , 2021, 33, 163-178.	2.2	5
7	Characterization and modeling of hard magnetic particle-based magnetorheological elastomers. <i>Journal of Intelligent Material Systems and Structures</i> , 2021, 32, 909-920.	2.5	4
8	A non-uniform cellular automata framework for topology and sizing optimization of truss structures subjected to stress and displacement constraints. <i>Computers and Structures</i> , 2021, 242, 106394.	4.4	9
9	Effect of pre-strain on compression mode properties of magnetorheological elastomers. <i>Polymer Testing</i> , 2021, 93, 106888.	4.8	19
10	Transversely isotropic magnetoactive elastomers: theory and experiments. <i>Archive of Applied Mechanics</i> , 2021, 91, 375-392.	2.2	7
11	Compensation of Magnetic Force of an Electromagnet for Compression Mode Characterization of Magnetorheological Elastomers. <i>IEEE Transactions on Magnetics</i> , 2021, 57, 1-14.	2.1	9
12	Dynamic analysis of a functionally graded piezoelectric energy harvester under magnetic interaction. <i>Journal of Intelligent Material Systems and Structures</i> , 2021, 32, 986-1000.	2.5	5
13	Effects of iron particles volume fraction on compression mode properties of magnetorheological elastomers. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 522, 167552.	2.3	14
14	Adaptive dynamic moduli of magnetorheological elastomers: From experimental identification to microstructure-based modeling. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 267, 115083.	3.5	4
15	A novel semi-active switching control scheme for magnetorheological elastomer-based vibration isolator under dynamic input saturation. <i>Smart Materials and Structures</i> , 2021, 30, 095008.	3.5	5
16	Effect of shape factor on compression mode dynamic properties of magnetorheological elastomers. <i>Journal of Intelligent Material Systems and Structures</i> , 2021, 32, 1678-1699.	2.5	7
17	Temperature dependency of magnetorheological fluids properties under varying strain amplitude and rate. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 498, 166109.	2.3	21
18	Dynamic characterization of isotropic and anisotropic magnetorheological elastomers in the oscillatory squeeze mode superimposed on large static pre-strain. <i>Composites Part B: Engineering</i> , 2020, 182, 107648.	12.0	51

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19	Multidisciplinary Design Optimization of a Novel Sandwich Beam-Based Adaptive Tuned Vibration Absorber Featuring Magnetorheological Elastomer. <i>Materials</i> , 2020, 13, 2261.	2.9	16
20	Analysis and design optimization of double-sided deep cold rolling process of a Ti-6Al-4V blade. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 108, 2103-2120.	3.0	7
21	Development of a small-deformation material model for an isotropic magneto-active elastomer. <i>Acta Mechanica</i> , 2020, 231, 2287-2301.	2.1	3
22	Development and Control of Magnetorheological Elastomer-Based Semi-active Seat Suspension Isolator Using Adaptive Neural Network. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	15
23	Design optimization and experimental characterization of a rotary magneto-rheological fluid damper to control torsional vibration. <i>Smart Materials and Structures</i> , 2020, 29, 045010.	3.5	9
24	Characterization and modeling of temperature effect on the shear mode properties of magnetorheological elastomers. <i>Smart Materials and Structures</i> , 2020, 29, 115001.	3.5	13
25	A novel magnetorheological elastomer-based adaptive tuned vibration absorber: design, analysis and experimental characterization. <i>Smart Materials and Structures</i> , 2020, 29, 115042.	3.5	9
26	Design optimization of a bi-fold MR energy absorber subjected to impact loading for skid landing gear applications. <i>Smart Materials and Structures</i> , 2019, 28, 035031.	3.5	9
27	Modeling and dynamic analysis of a vehicle-flexible pavement coupled system subjected to road surface excitation. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 3115-3125.	1.5	19
28	Experimental characterization and microscale modeling of isotropic and anisotropic magnetorheological elastomers. <i>Composites Part B: Engineering</i> , 2019, 176, 107311.	12.0	49
29	Development of a field dependent Prandtl-Ishlinskii model for magnetorheological elastomers. <i>Materials and Design</i> , 2019, 166, 107608.	7.0	38
30	Modeling pavement damage and predicting fatigue cracking of flexible pavements based on a combination of deterministic method with stochastic approach using Miner's hypothesis. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	5
31	Investigation on thermal relaxation of residual stresses induced in deep cold rolling of Ti-6Al-4V alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 100, 877-893.	3.0	14
32	On sound insulation of pyramidal lattice sandwich structure. <i>Composite Structures</i> , 2019, 208, 385-394.	5.8	78
33	On the properties of magnetorheological elastomers in shear mode: Design, fabrication and characterization. <i>Composites Part B: Engineering</i> , 2019, 159, 269-283.	12.0	107
34	Development, optimization, and control of a novel magnetorheological brake with no zero-field viscous torque for automotive applications. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 3199-3213.	2.5	22
35	Dynamic analysis of an SDOF helicopter model featuring skid landing gear and an MR damper by considering the rotor lift factor and a Bingham number. <i>Smart Materials and Structures</i> , 2018, 27, 065013.	3.5	13
36	A comprehensive review of finite element modeling of orthogonal machining process: chip formation and surface integrity predictions. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 3747-3791.	3.0	63

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37	Finite element analysis and response surface method for robust multi-performance optimization of radial turning of hard 300M steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 2457-2474.	3.0	28
38	Vibration analysis and optimal design of multi-layer plates partially treated with the MR fluid. <i>Mechanical Systems and Signal Processing</i> , 2017, 82, 80-102.	8.0	24
39	Vibration behavior of a two-crack shaft in a rotor disc-bearing system. <i>Mechanism and Machine Theory</i> , 2017, 113, 67-84.	4.5	27
40	Vibro-acoustic topology optimization of sandwich panels partially treated with MR fluid and silicone rubber core layer. <i>Smart Materials and Structures</i> , 2017, 26, 125015.	3.5	6
41	Sound transmission analysis of MR fluid based-circular sandwich panels: Experimental and finite element analysis. <i>Journal of Sound and Vibration</i> , 2017, 408, 43-59.	3.9	12
42	Multi-objective design optimization and control of magnetorheological fluid brakes for automotive applications. <i>Smart Materials and Structures</i> , 2017, 26, 125012.	3.5	31
43	Design Optimization of a Magneto-Rheological Fluid Brake for Vehicle Applications. , 2016, , .		7
44	Development of a new torsional vibration damper incorporating conventional centrifugal pendulum absorber and magnetorheological damper. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 980-992.	2.5	14
45	An accurate technique for pre-yield characterization of MR fluids. <i>Smart Materials and Structures</i> , 2015, 24, 065018.	3.5	28
46	Practical hysteresis model for magnetorheological dampers. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 967-979.	2.5	21
47	Design optimization of magnetorheological fluid valves using response surface method. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 1352-1371.	2.5	24
48	Vibration Control on Smart Civil Structures: A Review. <i>Mechanics of Advanced Materials and Structures</i> , 2014, 21, 23-38.	2.6	51
49	Finite element analysis and design optimization of low plasticity burnishing process. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 70, 1337-1354.	3.0	44
50	Fused empirical mode decomposition and wavelets for locating combined damage in a truss-type structure through vibration analysis. <i>Journal of Zhejiang University: Science A</i> , 2013, 14, 615-630.	2.4	36
51	Vibration analysis and design optimization of sandwich beams with constrained viscoelastic core layer. <i>Journal of Sandwich Structures and Materials</i> , 2013, 15, 203-228.	3.5	27
52	Vibration control of Timoshenko beam traversed by moving vehicle using optimized tuned mass damper. <i>JVC/Journal of Vibration and Control</i> , 2012, 18, 757-773.	2.6	20
53	Nonlinear free vibration analysis of sandwich shell structures with a constrained electrorheological fluid layer. <i>Smart Materials and Structures</i> , 2012, 21, 075035.	3.5	27
54	Optimal vibration control of beams with total and partial MR-fluid treatments. <i>Smart Materials and Structures</i> , 2011, 20, 115016.	3.5	43

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55	Vibration analysis of a partially treated multi-layer beam with magnetorheological fluid. Journal of Sound and Vibration, 2010, 329, 3451-3469.	3.9	95
56	Analytical and Experimental Study Using Output-Only Modal Testing for On-Orbit Satellite Appendages. Advances in Acoustics and Vibration, 2009, 2009, 1-10.	0.5	1
57	Optimal Vibration Suppression of Timoshenko Beam With Tuned-Mass-Damper Using Finite Element Method. Journal of Vibration and Acoustics, Transactions of the ASME, 2009, 131, .	1.6	13
58	Design of laminated composite structures for optimum fiber direction and layer thickness, using optimality criteria. Structural and Multidisciplinary Optimization, 2008, 36, 159-167.	3.5	32
59	Corotational non-linear analysis of thin plates and shells using a new shell element. International Journal for Numerical Methods in Engineering, 2007, 69, 859-885.	2.8	47