

Ramin Sedaghati

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2023484/publications.pdf>

Version: 2024-02-01

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	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
2	Vibration analysis of a partially treated multi-layer beam with magnetorheological fluid. <i>Journal of Sound and Vibration</i> , 2010, 329, 3451-3469.	3.9	95
3	On sound insulation of pyramidal lattice sandwich structure. <i>Composite Structures</i> , 2019, 208, 385-394.	5.8	78
4	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
5	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
6	Vibration Control on Smart Civil Structures: A Review. <i>Mechanics of Advanced Materials and Structures</i> , 2014, 21, 23-38.	2.6	51
7	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
8	Experimental characterization and microscale modeling of isotropic and anisotropic magnetorheological elastomers. <i>Composites Part B: Engineering</i> , 2019, 176, 107311.	12.0	49
9	Corotational non-linear analysis of thin plates and shells using a new shell element. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 69, 859-885.	2.8	47
10	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
11	Optimal vibration control of beams with total and partial MR-fluid treatments. <i>Smart Materials and Structures</i> , 2011, 20, 115016.	3.5	43
12	Development of a field dependent Prandtl-Ishlinskii model for magnetorheological elastomers. <i>Materials and Design</i> , 2019, 166, 107608.	7.0	38
13	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
14	Design of laminated composite structures for optimum fiber direction and layer thickness, using optimality criteria. <i>Structural and Multidisciplinary Optimization</i> , 2008, 36, 159-167.	3.5	32
15	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
16	An accurate technique for pre-yield characterization of MR fluids. <i>Smart Materials and Structures</i> , 2015, 24, 065018.	3.5	28
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	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
24	Practical hysteresis model for magnetorheological dampers. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 967-979.	2.5	21
25	Temperature dependency of magnetorheological fluidsâ€™ properties under varying strain amplitude and rate. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 498, 166109.	2.3	21
26	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
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	Effect of pre-strain on compression mode properties of magnetorheological elastomers. <i>Polymer Testing</i> , 2021, 93, 106888.	4.8	19
29	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
30	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
31	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
32	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
33	Effects of iron particlesâ€™ volume fraction on compression mode properties of magnetorheological elastomers. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 522, 167552.	2.3	14
34	Optimal Vibration Suppression of Timoshenko Beam With Tuned-Mass-Damper Using Finite Element Method. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2009, 131, .	1.6	13
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	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

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	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
40	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
41	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
42	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
43	Design Optimization of a Magneto-Rheological Fluid Brake for Vehicle Applications. , 2016, , .		7
44	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
45	Transversely isotropic magnetoactive elastomers: theory and experiments. <i>Archive of Applied Mechanics</i> , 2021, 91, 375-392.	2.2	7
46	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
47	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
48	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
49	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
50	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
51	Finite deformation analysis of isotropic magnetoactive elastomers. <i>Continuum Mechanics and Thermodynamics</i> , 2021, 33, 163-178.	2.2	5
52	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
53	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
54	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

#	ARTICLE	IF	CITATIONS
55	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
56	Development of a small-deformation material model for an isotropic magneto-active elastomer. <i>Acta Mechanica</i> , 2020, 231, 2287-2301.	2.1	3
57	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
58	Analytical and Experimental Study Using Output-Only Modal Testing for On-Orbit Satellite Appendages. <i>Advances in Acoustics and Vibration</i> , 2009, 2009, 1-10.	0.5	1
59	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