

Mohammad A Al-Shudeifat

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

1,881
citations

257101

24
h-index

264894

42
g-index

81
all docs

81
docs citations

81
times ranked

615
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of non-synchronous whirl on post-resonance backward whirl in vertical cracked rotors. <i>Journal of Sound and Vibration</i> , 2022, 520, 116605.	2.1	6
2	Periodic Motion and Frequency Energy Plots of Dynamical Systems Coupled With Piecewise Nonlinear Energy Sink. <i>Journal of Computational and Nonlinear Dynamics</i> , 2022, 17, .	0.7	10
3	Post-resonance backward whirl analysis in cracked overhung rotors. <i>Scientific Reports</i> , 2022, 12, .	1.6	3
4	Comparison of a modified vibro-impact nonlinear energy sink with other kinds of NESs. <i>Meccanica</i> , 2021, 56, 735-752.	1.2	32
5	Negative potential energy content analysis in cracked rotors whirl response. <i>Scientific Reports</i> , 2021, 11, 15294.	1.6	3
6	Frequency energy plot and targeted energy transfer analysis of coupled bistable nonlinear energy sink with linear oscillator. <i>Nonlinear Dynamics</i> , 2021, 105, 2877-2898.	2.7	24
7	Two-dimensional nonlinear energy sink for effective passive seismic mitigation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 99, 105787.	1.7	14
8	Effect of Negative Stiffness Content on the Periodic Motion of Nonlinearly Coupled Oscillators. <i>Journal of Computational and Nonlinear Dynamics</i> , 2021, 16, .	0.7	2
9	Full Spectrum Analysis for Studying the Backward Whirl in Accelerated Rotor Systems. <i>Springer Proceedings in Mathematics and Statistics</i> , 2021, , 37-47.	0.1	0
10	A Study on the Coefficient of Restitution Effect on Single-Sided Vibro-Impact Nonlinear Energy Sink. <i>Springer Proceedings in Mathematics and Statistics</i> , 2021, , 287-296.	0.1	0
11	Rotary-impact nonlinear energy sink for shock mitigation: analytical and numerical investigations. <i>Archive of Applied Mechanics</i> , 2020, 90, 495-521.	1.2	36
12	Post-resonance backward whirl in accelerating cracked rotor systems. <i>European Journal of Mechanics, A/Solids</i> , 2020, 83, 104039.	2.1	7
13	On post-resonance backward whirl in an overhung rotor with snubbing contact. <i>Nonlinear Dynamics</i> , 2020, 101, 741-754.	2.7	6
14	Breathing Crack Model Effect on Rotor's Postresonance Backward Whirl. <i>Journal of Computational and Nonlinear Dynamics</i> , 2020, 15, .	0.7	3
15	Rotary-oscillatory nonlinear energy sink of robust performance. <i>International Journal of Non-Linear Mechanics</i> , 2019, 117, 103249.	1.4	48
16	Energy redistribution using cubic nonlinear energy sink in a large-scale structure. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
17	New backward whirl phenomena in intact and cracked rotor systems. <i>Journal of Sound and Vibration</i> , 2019, 443, 124-138.	2.1	28
18	Effect of Unbalance Force Vector Orientation on the Whirl Response of Cracked Rotors. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2019, 141, .	1.0	12

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19	Nonlinear Energy Sinks With Piecewise-Linear Nonlinearities. Journal of Computational and Nonlinear Dynamics, 2019, 14, .	0.7	14
20	Vibration Suppression in Two-Dimensional Oscillation Dynamical Systems. , 2018, , .		2
21	Negative Effective Stiffness Content in Cracked Rotors. , 2018, , .		1
22	Modal Damping and Frequency Variations in Nonlinearly Coupled Oscillators With Negative Linear Stiffness Components. , 2018, , .		0
23	Effect of Angular Acceleration and Unbalance Force Orientation on the Backward Whirl in Cracked Rotors. , 2018, , .		1
24	Modal damping variations in nonlinear dynamical systems. Nonlinear Dynamics, 2018, 93, 2565-2578.	2.7	5
25	Application of the Proper Orthogonal Decomposition Method for Cracked Rotors. Journal of Computational and Nonlinear Dynamics, 2018, 13, .	0.7	2
26	Numerical and experimental investigations of a rotating nonlinear energy sink. Meccanica, 2017, 52, 763-779.	1.2	72
27	Nonlinear Energy Sinks With Nontraditional Kinds of Nonlinear Restoring Forces. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .	1.0	28
28	Time-varying stiffness method for extracting the frequencyâ€“energy dependence in the nonlinear dynamical systems. Nonlinear Dynamics, 2017, 89, 1463-1474.	2.7	10
29	A New Type of NES: Rotary Vibro-Impact. , 2017, , .		2
30	Frequency-Energy Dependence of the Bistable Nonlinear Energy Sink. , 2017, , .		6
31	Analytical Treatment for Bistable Nonlinearly Coupled Oscillators. , 2017, , .		1
32	Amplitude-Dependent Stiffness Method for Studying Frequency and Damping Variations in Nonlinear Dynamical Systems. , 2017, , .		0
33	Effect of Unbalance Force Direction on a Cracked Rotor Whirl Response. , 2017, , .		1
34	Application of the POD Method for Cracked Rotors. , 2017, , .		0
35	Enhanced Rotating Nonlinear Energy Sink. , 2016, , .		1
36	Shock Mitigation by Means of Low- to High-Frequency Nonlinear Targeted Energy Transfers in a Large-Scale Structure. Journal of Computational and Nonlinear Dynamics, 2016, 11, .	0.7	40

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37	Piecewise Nonlinear Energy Sink. , 2015, , .		2
38	Nonlinear Energy Sink With a Non-Traditional Kind of Nonlinear Restoring Force. , 2015, , .		0
39	Amplitudes Decay in Different Kinds of Nonlinear Oscillators. Journal of Vibration and Acoustics, Transactions of the ASME, 2015, 137, .	1.0	18
40	Analytical formulas for the energy, velocity and displacement decays of purely nonlinear damped oscillators. JVC/Journal of Vibration and Control, 2015, 21, 1210-1219.	1.5	15
41	Asymmetric Magnet-Based Nonlinear Energy Sink. Journal of Computational and Nonlinear Dynamics, 2015, 10, .	0.7	52
42	Stability analysis and backward whirl investigation of cracked rotors with time-varying stiffness. Journal of Sound and Vibration, 2015, 348, 365-380.	2.1	49
43	Vibration reduction in unbalanced hollow rotor systems with nonlinear energy sinks. Nonlinear Dynamics, 2015, 79, 527-538.	2.7	76
44	Time-Varying Frequency Formula for the Purely Nonlinear Damped Oscillator. , 2014, , .		0
45	Analytical Solution of Two Coupled Oscillators With a Nonlinear Coupling Restoring Force. , 2014, , .		0
46	Experimental Investigation of a Rotational Nonlinear Energy Sink for Shock Mitigation. , 2014, , .		1
47	Experimental Testing and Numerical Simulation of a Six-Story Structure Incorporating Two-Degree-of-Freedom Nonlinear Energy Sink. Journal of Structural Engineering, 2014, 140, .	1.7	62
48	Highly efficient nonlinear energy sink. Nonlinear Dynamics, 2014, 76, 1905-1920.	2.7	161
49	Realization of a Strongly Nonlinear Vibration-Mitigation Device Using Elastomeric Bumpers. Journal of Engineering Mechanics - ASCE, 2014, 140, .	1.6	33
50	Interactions of propagating waves in a one-dimensional chain of linear oscillators with a strongly nonlinear local attachment. Meccanica, 2014, 49, 2375-2397.	1.2	32
51	Amplitudes Decay in the Nonlinear Oscillators of Mixed Linear and Cubic Stiffness Components. , 2014, , .		1
52	Shock Mitigation by Energy Reversal to the High Frequency Modes. , 2014, , .		0
53	On the finite element modeling of the asymmetric cracked rotor. Journal of Sound and Vibration, 2013, 332, 2795-2807.	2.1	77
54	Stability analysis for transverse breathing cracks in rotor systems. European Journal of Mechanics, A/Solids, 2013, 42, 27-34.	2.1	46

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55	Application of empirical mode decomposition to a Jeffcott rotor with a breathing crack. Journal of Sound and Vibration, 2013, 332, 3881-3892.	2.1	72
56	Numerical and experimental investigation of a highly effective single-sided vibro-impact non-linear energy sink for shock mitigation. International Journal of Non-Linear Mechanics, 2013, 52, 96-109.	1.4	133
57	On the dynamics of a beam with switching crack and damaged boundaries. JVC/Journal of Vibration and Control, 2013, 19, 30-46.	1.5	13
58	Numerical Investigation of Rotating Nonlinear Energy Sink for Shock Mitigation. , 2013, , .		0
59	Incoming Stall Identification in Axial Compressors by Vibration Analysis. , 2013, , .		0
60	Nonlinear Response of CNT Cantilever Based Nano-Resonators. , 2013, , .		0
61	New Design of Magnetic Nonlinear Energy Sink for Shock Mitigation in Dynamic Structures. , 2013, , .		0
62	Approach for Stability Analysis of a Cracked Rotor With Time-Varying Stiffness. , 2013, , .		0
63	Localization Phenomena of Nonlinear Vibrations in Three-Blade Wind Turbines. , 2013, , .		0
64	Equivalent modal damping, stiffening and energy exchanges in multi-degree-of-freedom systems with strongly nonlinear attachments. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2012, 226, 122-146.	0.5	20
65	Simulation and Testing of a 6-Story Structure Incorporating a Coupled Two Mass Nonlinear Energy Sink. , 2012, , .		4
66	Numerical and Experimental Investigation of a New Nonlinear Energy Sink for Passive Shock Mitigation. , 2012, , .		1
67	Passive damping enhancement of a two-degree-of-freedom system through a strongly nonlinear two-degree-of-freedom attachment. Journal of Sound and Vibration, 2012, 331, 5393-5407.	2.1	89
68	Alternation of regular and chaotic dynamics in a simple two-degree-of-freedom system with nonlinear inertial coupling. Chaos, 2012, 22, 013118.	1.0	43
69	Resonance captures and targeted energy transfers in an inertially-coupled rotational nonlinear energy sink. Nonlinear Dynamics, 2012, 69, 1693-1704.	2.7	125
70	New breathing functions for the transverse breathing crack of the cracked rotor system: Approach for critical and subcritical harmonic analysis. Journal of Sound and Vibration, 2011, 330, 526-544.	2.1	138
71	An efficient mode-based alternative to principal orthogonal modes in the order reduction of structural dynamic systems with grounded nonlinearities. Mechanical Systems and Signal Processing, 2011, 25, 1527-1549.	4.4	9
72	Enhanced Order Reduction of Forced Nonlinear Systems Using New Ritz Vectors. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 41-52.	0.3	0

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73	Order reduction of forced nonlinear systems using updated LELSM modes with new Ritz vectors. <i>Nonlinear Dynamics</i> , 2010, 62, 821-840.	2.7	15
74	Combustion of waste trap grease oil in gas turbine generator. <i>Fuel</i> , 2010, 89, 549-553.	3.4	19
75	General harmonic balance solution of a cracked rotor-bearing-disk system for harmonic and sub-harmonic analysis: Analytical and experimental approach. <i>International Journal of Engineering Science</i> , 2010, 48, 921-935.	2.7	80
76	On the Modeling of Open and Breathing Cracks of a Cracked Rotor System. , 2010, , .		9
77	Use of Nonlinear Vibration Frequencies and Electrical Conductivity Measurements in the Separation of Internal and Boundary Damage in Structures. , 2008, , .		5
78	Experimental study of new refrigerant mixtures to replace R12 in domestic refrigerators. <i>Applied Thermal Engineering</i> , 2002, 22, 495-506.	3.0	60