Noureddine Bouhaddi

List of Publications by Year
in descending order

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97	1,146	361413	454955
papers	citations	20 h-index	30 g-index

101	101	101	799
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Effect of the Bending Beam Width Variations on the Discrepancy of the Resulting Quadrature Errors in MEMS Gyroscopes. Micromachines, 2022, 13, 655.	2.9	2
2	Algebraic wavenumber identification method in presence of uncertainty. MATEC Web of Conferences, 2022, 360, 00005.	0.2	1
3	Investigating the effects of Silicon etching imperfections on the quadrature error in MEMS gyroscopes. , 2022, , .		0
4	On the Optimization of a Multimodal Electromagnetic Vibration Energy Harvester Using Mode Localization and Nonlinear Dynamics. Actuators, 2021, 10, 25.	2.3	5
5	Numerical investigations and experimental measurements on the structural dynamic behaviour of quasi-periodic meta-materials. Mechanical Systems and Signal Processing, 2020, 136, 106516.	8.0	25
6	Efficient broadband vibration energy harvesting based on tuned non-linearity and energy localization. Smart Materials and Structures, 2020, 29, 10LT01.	3.5	23
7	A Reliability Based Design Method Evaluation for a Coupled Fluid-Structure System. Lecture Notes in Mechanical Engineering, 2020, , 164-172.	0.4	0
8	A Low Cost Uncertainties Propagation Study for a Coupled Fluid Structure System. Lecture Notes in Mechanical Engineering, 2020, , 261-270.	0.4	0
9	Uncertainty propagation and experimental verification of nonlinear viscoelastic sandwich beams. Mechanical Systems and Signal Processing, 2019, 132, 654-669.	8.0	11
10	Nonlinear multimodal electromagnetic device for vibration energy harvesting. MATEC Web of Conferences, 2019, 286, 01003.	0.2	0
11	Random vibro-acoustic control of internal noise through optimized Tuned Mass Dampers. Mechanical Systems and Signal Processing, 2019, 130, 17-40.	8.0	9
12	On the energy localization in weakly coupled oscillators for electromagnetic vibration energy harvesting. Smart Materials and Structures, 2019, 28, 07LT02.	3.5	27
13	Spectral analysis and structural response of periodic and quasi-periodic beams. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 7498-7512.	2.1	10
14	Vibration Energy Localization from Nonlinear Quasi-Periodic Coupled Magnets. Applied Condition Monitoring, 2019, , 121-128.	0.4	1
15	Identification of representative anisotropic material properties accounting for friction and preloading effects: A contribution for the modeling of structural dynamics of electric motor stators. JVC/Journal of Vibration and Control, 2018, 24, 237-259.	2.6	4
16	Inhomogeneous Wave Correlation for Propagation Parameters Identification in Presence of Uncertainties. Lecture Notes in Mechanical Engineering, 2018, , 823-833.	0.4	2
17	Collective Dynamics of Disordered Two Coupled Nonlinear Pendulums. Lecture Notes in Mechanical Engineering, 2018, , 931-940.	0.4	0
18	Optimization of vibration energy localization in quasi-periodic structures. MATEC Web of Conferences, 2018, 241, 01013.	0.2	0

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19	Robustness of Nonlinear Electromagnetic Vibration Energy Harvester Subjected to Random Excitation. , 2018, , .		0
20	Design of a quasi-periodic vibration energy harvester based on an electromagnetic technique. MATEC Web of Conferences, 2018, 241, 01024.	0.2	0
21	Effect of the localization on the response of a quasi-periodic electromagnetic oscillator array for vibration energy harvesting. MATEC Web of Conferences, 2018, 241, 01003.	0.2	1
22	Design of a nonlinear energy harvester based on high static low dynamic stiffness for low frequency random vibrations. Sensors and Actuators A: Physical, 2018, 283, 54-64.	4.1	38
23	Composite beam identification using a variant of the inhomogeneous wave correlation method in presence of uncertainties. Engineering Computations, 2018, 35, 2126-2164.	1.4	6
24	High performances low frequency vibration energy harvester with HSLD stiffness. Journal of Physics: Conference Series, 2018, 1052, 012088.	0.4	0
25	Optimized Nonlinear MDOF Vibration Energy Harvester Based on Electromagnetic Coupling. Lecture Notes in Mechanical Engineering, 2018, , 31-38.	0.4	0
26	Stabilization of solitons in coupled nonlinear pendulums with simultaneous external and parametric excitations. Communications in Nonlinear Science and Numerical Simulation, 2017, 42, 1-11.	3.3	24
27	Uncertainty quantification/propagation in nonlinear models. Engineering Computations, 2017, 34, 1082-1106.	1.4	5
28	Investigation of modal interactions and their effects on the nonlinear dynamics of a periodic coupled pendulums chain. International Journal of Mechanical Sciences, 2017, 127, 130-141.	6.7	20
29	Viscoelastic property tuning for reducing noise radiated by switched-reluctance machines. Journal of Sound and Vibration, 2017, 407, 191-208.	3.9	19
30	Estimation and correction of the modal damping error involving linear and nonlinear localized dissipation. European Journal of Mechanics, A/Solids, 2017, 66, 296-308.	3.7	2
31	Appropriation Effects in the Estimation of Modal Damping. Applied Condition Monitoring, 2017, , 185-193.	0.4	0
32	Multistability and Bifurcation Topology in Electrostatically Coupled Nanobeams Under Parametric Resonance. , 2017, , .		1
33	Robustness Analysis of the Collective Nonlinear Dynamics of a Periodic Coupled Pendulums Chain. Applied Sciences (Switzerland), 2017, 7, 684.	2.5	9
34	Metamodel for nonlinear dynamic response analysis of damaged laminated composites. MATEC Web of Conferences, 2016, 83, 05006.	0.2	0
35	Robustness Analysis of the Collective Dynamics of Nonlinear Periodic Structures Under Parametric Uncertainty. , 2016, , .		0
36	Multistability and Modal Interactions in Periodic 2D Coupled Pendulums Array. , 2016, , .		1

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37	Low cost metamodel for robust design of periodic nonlinear coupled micro-systems. MATEC Web of Conferences, 2016, 83, 05004.	0.2	1
38	Nonlinear dynamics of magnetically coupled beams for multi-modal vibration energy harvesting. , 2016, , .		4
39	Benefits of metamodel-reduction for nonlinear dynamic response analysis of damaged composite structures. Finite Elements in Analysis and Design, 2016, 119, 1-14.	3.2	9
40	Multi-modal vibration energy harvesting approach based on nonlinear oscillator arrays under magnetic levitation. Smart Materials and Structures, 2016, 25, 025018.	3.5	61
41	A time-domain finite element model reduction method for viscoelastic linear and nonlinear systems. Latin American Journal of Solids and Structures, 2015, 12, 1182-1201.	1.0	16
42	Nonlinear 2-DOFs Vibration Energy Harvester Based on Magnetic Levitation. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 39-45.	0.5	5
43	Non-linear Model Reduction Method Applied to Viscoelastically Damped Sandwich Structures. Lecture Notes in Mechanical Engineering, 2015, , 553-562.	0.4	0
44	Dynamics of random coupled structures through the wave finite element method. Engineering Computations, 2015, 32, 2020-2045.	1.4	2
45	Collective dynamics of periodic nonlinear oscillators under simultaneous parametric and external excitations. Nonlinear Dynamics, 2015, 82, 749-766.	5.2	21
46	Nonlinear Dynamic Response Analysis of Damaged Laminated Composite Structures. Lecture Notes in Mechanical Engineering, 2015, , 545-552.	0.4	0
47	Uncertainties Propagation through Robust Reduced Model. Lecture Notes in Mechanical Engineering, 2015, , 537-544.	0.4	0
48	Structural dynamics of electric machine stators: Modelling guidelines and identification of three-dimensional equivalent material properties for multi-layered orthotropic laminates. Journal of Sound and Vibration, 2015, 348, 185-205.	3.9	24
49	Nonlinear dynamic response analysis of localized damaged laminated composite structures in the context of component mode synthesis. Journal of Physics: Conference Series, 2015, 628, 012097.	0.4	0
50	A power flow mode approach dedicated to structural interface dynamic characterization. Journal of Sound and Vibration, 2015, 334, 202-218.	3.9	9
51	Model reduction methods for viscoelastic sandwich structures in frequency and time domains. Finite Elements in Analysis and Design, 2015, 93, 12-29.	3.2	30
52	NONLINEAR DYNAMICS OF A 2D ARRAY OF COUPLED PENDULUMS UNDER PARAMETRIC EXCITATION. , 2015, , .		3
53	Reduced-order model for non-linear dynamic analysis of viscoelastic sandwich structures in time domain. MATEC Web of Conferences, 2014, 16, 08003.	0.2	1
54	Prediction of the dynamic response of a plate treated by particle impact damper. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 799-814.	2.1	14

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55	Enhancement of the performance of a hybrid nonlinear vibration energy harvester based on piezoelectric and electromagnetic transductions. Smart Materials and Structures, 2014, 23, 075024.	3.5	84
56	Nonlinear Dynamics of a Hybrid Piezo-Electromagnetic Vibrating Energy Harvester. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 41-47.	0.5	0
57	The loss factor experimental characterisation of the non-obstructive particles damping approach. Mechanical Systems and Signal Processing, 2013, 38, 585-600.	8.0	31
58	Reduction Method Applied to Viscoelastically Damped Finite Element Models. Lecture Notes in Mechanical Engineering, 2013, , 119-126.	0.4	0
59	Investigations for a model reduction technique of fluidâ€“structure coupled systems. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2012, 226, 42-54.	2.1	6
60	A reduced order model for nonlinear vibroacoustic problems. MATEC Web of Conferences, 2012, 1, 10002.	0.2	2
61	Robustness of structural reliability analyses to epistemic uncertainties. Mechanical Systems and Signal Processing, 2012, 28, 458-469.	8.0	15
62	Extension of modal reduction methods to non-linear coupled structure-acoustic problems. European Journal of Computational Mechanics, 2011, 20, 227-245.	0.6	2
63	Structure dynamic reliability: A hybrid approach and robust meta-models. Mechanical Systems and Signal Processing, 2011, 25, 2313-2323.	8.0	11
64	Robust multi-objective and multi-level optimization of complex mechanical structures. Mechanical Systems and Signal Processing, 2011, 25, 2444-2461.	8.0	15
65	Robustness analysis by a probabilistic approach for propagation of uncertainties in a component mode synthesis context. Mechanical Systems and Signal Processing, 2011, 25, 2426-2443.	8.0	4
66	Vibration transfer analysis of component interfaces by a power flow mode approach. European Journal of Computational Mechanics, 2011, 20, 29-47.	0.6	1
67	Optimization of viscoelastic systems combining robust condensation and metamodeling. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2010, 32, 485-495.	1.6	6
68	Component mode synthesis combining robust enriched Ritz approach for viscoelastically damped structures. Engineering Structures, 2010, 32, 1479-1488.	5.3	46
69	Robust design of viscoelastic structures based on stochastic finite element models. Mechanical Systems and Signal Processing, 2010, 24, 59-77.	8.0	33
70	A robust component mode synthesis method for stochastic damped vibroacoustics. Mechanical Systems and Signal Processing, 2010, 24, 164-181.	8.0	31
71	Stochastic Modeling of Surface Viscoelastic Treatments Combined with Model Condensation Procedures. Shock and Vibration, 2010, 17, 429-444.	0.6	11
72	Optimisation robuste multi-niveaux et multi-objectif de structures mÃ©caniques complexes. Mecanique Et Industries, 2010, 11, 393-400.	0.2	1

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73	An experimental study of a multi-particle impact damper. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2009, 223, 2029-2038.	2.1	23
74	Multi-objective optimization in dynamics of the structures with nonlinear behavior: Contributions of the metamodels. Finite Elements in Analysis and Design, 2009, 45, 612-623.	3.2	23
75	Robust tools for prediction of variability and optimization in structural dynamics. Mechanical Systems and Signal Processing, 2009, 23, 1123-1133.	8.0	16
76	Prediction condensed models adapted to the nonlinear structures in time domain. Journal of Sound and Vibration, 2009, 320, 668-690.	3.9	1
77	Robust optimization of the non-linear behaviour of a vibrating system. European Journal of Mechanics, A/Solids, 2009, 28, 141-154.	3.7	7
78	Evaluation of stiffness of semi-rigid joints in pultruded profiles from dynamic and static data by using model updating technique. Engineering Structures, 2008, 30, 1024-1036.	5.3	22
79	Characterization of elastic properties of pultruded profiles using model updating procedure with vibration test data. Structural Engineering and Mechanics, 2008, 30, 481-500.	1.0	0
80	Use of Metamodels in the Multi-Objective Optimization of Mechanical Structures with Uncertainties. International Journal for Computational Methods in Engineering Science and Mechanics, 2007, 8, 283-302.	2.1	8
81	Robustness of mechanical systems against uncertainties. Finite Elements in Analysis and Design, 2007, 43, 715-731.	3.2	15
82	Robust Design in Structural Mechanics. International Journal for Computational Methods in Engineering Science and Mechanics, 2006, 8, 39-49.	2.1	8
83	Une mÃ©thodologie de conception robuste en dynamique des structures. European Journal of Computational Mechanics, 2006, 15, 15-27.	0.6	1
84	Component mode synthesis (CMS) based on an enriched ritz approach for efficient structural optimization. Journal of Sound and Vibration, 2006, 296, 845-860.	3.9	60
85	Reduction of the stochastic finite element models using a robust dynamic condensation method. Journal of Sound and Vibration, 2006, 297, 123-145.	3.9	38
86	Robust component modal synthesis method adapted to the survey of the dynamic behaviour of structures with localised non-linearities. Mechanical Systems and Signal Processing, 2006, 20, 131-157.	8.0	10
87	Updating complex structures by a robust multilevel condensation approach. Journal of Sound and Vibration, 2004, 270, 403-416.	3.9	4
88	Parameterized Reduced Models for Efficient Optimization of Structural Dynamic Behavior. , 2002, , .		5
89	SIMPLIFICATION OF FINITE ELEMENT MODELS FOR STRUCTURES HAVING A BEAM-LIKE BEHAVIOUR. Journal of Sound and Vibration, 2000, 232, 331-354.	3.9	5
90	Improved free-interface substructures representation method. Computers and Structures, 2000, 77, 269-283.	4.4	15

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91	TRANSVERSE VIBRATIONS OF SHORT BEAMS: FINITE ELEMENT MODELS OBTAINED BY A CONDENSATION METHOD. Journal of Sound and Vibration, 1997, 201, 353-363.	3.9	16
92	MODEL REDUCTION BY A SIMPLIFIED VARIANT OF DYNAMIC CONDENSATION. Journal of Sound and Vibration, 1996, 191, 233-250.	3.9	27
93	Substructuring by a two level dynamic condensation method. Computers and Structures, 1996, 60, 403-409.	4.4	18
94	Updating of Finite Element Models Based on a Double Condensation Procedure Using Frequency Response Functions Data. , 1995, , .		1
95	A method for selecting master DOF in dynamic substructuring using the Guyan condensation method. Computers and Structures, 1992, 45, 941-946.	4.4	50
96	Substructuring using a linearized dynamic condensation method. Computers and Structures, 1992, 45, 679-683.	4.4	24
97	An efficient time-domain finite element model reduction method for nonlinear systems. , 0, , .		0