

# Noureddine Bouhaddi

## List of Publications by Year in descending order

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97  
papers

1,146  
citations

361413

20  
h-index

454955

30  
g-index

101  
all docs

101  
docs citations

101  
times ranked

799  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of the performance of a hybrid nonlinear vibration energy harvester based on piezoelectric and electromagnetic transductions. <i>Smart Materials and Structures</i> , 2014, 23, 075024.	3.5	84
2	Multi-modal vibration energy harvesting approach based on nonlinear oscillator arrays under magnetic levitation. <i>Smart Materials and Structures</i> , 2016, 25, 025018.	3.5	61
3	Component mode synthesis (CMS) based on an enriched ritz approach for efficient structural optimization. <i>Journal of Sound and Vibration</i> , 2006, 296, 845-860.	3.9	60
4	A method for selecting master DOF in dynamic substructuring using the Guyan condensation method. <i>Computers and Structures</i> , 1992, 45, 941-946.	4.4	50
5	Component mode synthesis combining robust enriched Ritz approach for viscoelastically damped structures. <i>Engineering Structures</i> , 2010, 32, 1479-1488.	5.3	46
6	Reduction of the stochastic finite element models using a robust dynamic condensation method. <i>Journal of Sound and Vibration</i> , 2006, 297, 123-145.	3.9	38
7	Design of a nonlinear energy harvester based on high static low dynamic stiffness for low frequency random vibrations. <i>Sensors and Actuators A: Physical</i> , 2018, 283, 54-64.	4.1	38
8	Robust design of viscoelastic structures based on stochastic finite element models. <i>Mechanical Systems and Signal Processing</i> , 2010, 24, 59-77.	8.0	33
9	A robust component mode synthesis method for stochastic damped vibroacoustics. <i>Mechanical Systems and Signal Processing</i> , 2010, 24, 164-181.	8.0	31
10	The loss factor experimental characterisation of the non-obstructive particles damping approach. <i>Mechanical Systems and Signal Processing</i> , 2013, 38, 585-600.	8.0	31
11	Model reduction methods for viscoelastic sandwich structures in frequency and time domains. <i>Finite Elements in Analysis and Design</i> , 2015, 93, 12-29.	3.2	30
12	MODEL REDUCTION BY A SIMPLIFIED VARIANT OF DYNAMIC CONDENSATION. <i>Journal of Sound and Vibration</i> , 1996, 191, 233-250.	3.9	27
13	On the energy localization in weakly coupled oscillators for electromagnetic vibration energy harvesting. <i>Smart Materials and Structures</i> , 2019, 28, 07LT02.	3.5	27
14	Numerical investigations and experimental measurements on the structural dynamic behaviour of quasi-periodic meta-materials. <i>Mechanical Systems and Signal Processing</i> , 2020, 136, 106516.	8.0	25
15	Substructuring using a linearized dynamic condensation method. <i>Computers and Structures</i> , 1992, 45, 679-683.	4.4	24
16	Structural dynamics of electric machine stators: Modelling guidelines and identification of three-dimensional equivalent material properties for multi-layered orthotropic laminates. <i>Journal of Sound and Vibration</i> , 2015, 348, 185-205.	3.9	24
17	Stabilization of solitons in coupled nonlinear pendulums with simultaneous external and parametric excitations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 42, 1-11.	3.3	24
18	An experimental study of a multi-particle impact damper. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2009, 223, 2029-2038.	2.1	23

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19	Multi-objective optimization in dynamics of the structures with nonlinear behavior: Contributions of the metamodels. <i>Finite Elements in Analysis and Design</i> , 2009, 45, 612-623.	3.2	23
20	Efficient broadband vibration energy harvesting based on tuned non-linearity and energy localization. <i>Smart Materials and Structures</i> , 2020, 29, 10LT01.	3.5	23
21	Evaluation of stiffness of semi-rigid joints in pultruded profiles from dynamic and static data by using model updating technique. <i>Engineering Structures</i> , 2008, 30, 1024-1036.	5.3	22
22	Collective dynamics of periodic nonlinear oscillators under simultaneous parametric and external excitations. <i>Nonlinear Dynamics</i> , 2015, 82, 749-766.	5.2	21
23	Investigation of modal interactions and their effects on the nonlinear dynamics of a periodic coupled pendulums chain. <i>International Journal of Mechanical Sciences</i> , 2017, 127, 130-141.	6.7	20
24	Viscoelastic property tuning for reducing noise radiated by switched-reluctance machines. <i>Journal of Sound and Vibration</i> , 2017, 407, 191-208.	3.9	19
25	Substructuring by a two level dynamic condensation method. <i>Computers and Structures</i> , 1996, 60, 403-409.	4.4	18
26	TRANSVERSE VIBRATIONS OF SHORT BEAMS: FINITE ELEMENT MODELS OBTAINED BY A CONDENSATION METHOD. <i>Journal of Sound and Vibration</i> , 1997, 201, 353-363.	3.9	16
27	Robust tools for prediction of variability and optimization in structural dynamics. <i>Mechanical Systems and Signal Processing</i> , 2009, 23, 1123-1133.	8.0	16
28	A time-domain finite element model reduction method for viscoelastic linear and nonlinear systems. <i>Latin American Journal of Solids and Structures</i> , 2015, 12, 1182-1201.	1.0	16
29	Improved free-interface substructures representation method. <i>Computers and Structures</i> , 2000, 77, 269-283.	4.4	15
30	Robustness of mechanical systems against uncertainties. <i>Finite Elements in Analysis and Design</i> , 2007, 43, 715-731.	3.2	15
31	Robust multi-objective and multi-level optimization of complex mechanical structures. <i>Mechanical Systems and Signal Processing</i> , 2011, 25, 2444-2461.	8.0	15
32	Robustness of structural reliability analyses to epistemic uncertainties. <i>Mechanical Systems and Signal Processing</i> , 2012, 28, 458-469.	8.0	15
33	Prediction of the dynamic response of a plate treated by particle impact damper. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014, 228, 799-814.	2.1	14
34	Stochastic Modeling of Surface Viscoelastic Treatments Combined with Model Condensation Procedures. <i>Shock and Vibration</i> , 2010, 17, 429-444.	0.6	11
35	Structure dynamic reliability: A hybrid approach and robust meta-models. <i>Mechanical Systems and Signal Processing</i> , 2011, 25, 2313-2323.	8.0	11
36	Uncertainty propagation and experimental verification of nonlinear viscoelastic sandwich beams. <i>Mechanical Systems and Signal Processing</i> , 2019, 132, 654-669.	8.0	11

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37	Robust component modal synthesis method adapted to the survey of the dynamic behaviour of structures with localised non-linearities. <i>Mechanical Systems and Signal Processing</i> , 2006, 20, 131-157.	8.0	10
38	Spectral analysis and structural response of periodic and quasi-periodic beams. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019, 233, 7498-7512.	2.1	10
39	A power flow mode approach dedicated to structural interface dynamic characterization. <i>Journal of Sound and Vibration</i> , 2015, 334, 202-218.	3.9	9
40	Benefits of metamodel-reduction for nonlinear dynamic response analysis of damaged composite structures. <i>Finite Elements in Analysis and Design</i> , 2016, 119, 1-14.	3.2	9
41	Robustness Analysis of the Collective Nonlinear Dynamics of a Periodic Coupled Pendulums Chain. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 684.	2.5	9
42	Random vibro-acoustic control of internal noise through optimized Tuned Mass Dampers. <i>Mechanical Systems and Signal Processing</i> , 2019, 130, 17-40.	8.0	9
43	Robust Design in Structural Mechanics. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2006, 8, 39-49.	2.1	8
44	Use of Metamodels in the Multi-Objective Optimization of Mechanical Structures with Uncertainties. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2007, 8, 283-302.	2.1	8
45	Robust optimization of the non-linear behaviour of a vibrating system. <i>European Journal of Mechanics, A/Solids</i> , 2009, 28, 141-154.	3.7	7
46	Optimization of viscoelastic systems combining robust condensation and metamodeling. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2010, 32, 485-495.	1.6	6
47	Investigations for a model reduction technique of fluid-structure coupled systems. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2012, 226, 42-54.	2.1	6
48	Composite beam identification using a variant of the inhomogeneous wave correlation method in presence of uncertainties. <i>Engineering Computations</i> , 2018, 35, 2126-2164.	1.4	6
49	SIMPLIFICATION OF FINITE ELEMENT MODELS FOR STRUCTURES HAVING A BEAM-LIKE BEHAVIOUR. <i>Journal of Sound and Vibration</i> , 2000, 232, 331-354.	3.9	5
50	Parameterized Reduced Models for Efficient Optimization of Structural Dynamic Behavior. , 2002, , .		5
51	Nonlinear 2-DOFs Vibration Energy Harvester Based on Magnetic Levitation. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2015, , 39-45.	0.5	5
52	Uncertainty quantification/propagation in nonlinear models. <i>Engineering Computations</i> , 2017, 34, 1082-1106.	1.4	5
53	On the Optimization of a Multimodal Electromagnetic Vibration Energy Harvester Using Mode Localization and Nonlinear Dynamics. <i>Actuators</i> , 2021, 10, 25.	2.3	5
54	Updating complex structures by a robust multilevel condensation approach. <i>Journal of Sound and Vibration</i> , 2004, 270, 403-416.	3.9	4

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55	Robustness analysis by a probabilistic approach for propagation of uncertainties in a component mode synthesis context. <i>Mechanical Systems and Signal Processing</i> , 2011, 25, 2426-2443.	8.0	4
56	Nonlinear dynamics of magnetically coupled beams for multi-modal vibration energy harvesting. , 2016, , .		4
57	Identification of representative anisotropic material properties accounting for friction and preloading effects: A contribution for the modeling of structural dynamics of electric motor stators. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 237-259.	2.6	4
58	NONLINEAR DYNAMICS OF A 2D ARRAY OF COUPLED PENDULUMS UNDER PARAMETRIC EXCITATION. , 2015, , .		3
59	Extension of modal reduction methods to non-linear coupled structure-acoustic problems. <i>European Journal of Computational Mechanics</i> , 2011, 20, 227-245.	0.6	2
60	A reduced order model for nonlinear vibroacoustic problems. <i>MATEC Web of Conferences</i> , 2012, 1, 10002.	0.2	2
61	Dynamics of random coupled structures through the wave finite element method. <i>Engineering Computations</i> , 2015, 32, 2020-2045.	1.4	2
62	Estimation and correction of the modal damping error involving linear and nonlinear localized dissipation. <i>European Journal of Mechanics, A/Solids</i> , 2017, 66, 296-308.	3.7	2
63	Inhomogeneous Wave Correlation for Propagation Parameters Identification in Presence of Uncertainties. <i>Lecture Notes in Mechanical Engineering</i> , 2018, , 823-833.	0.4	2
64	The Effect of the Bending Beam Width Variations on the Discrepancy of the Resulting Quadrature Errors in MEMS Gyroscopes. <i>Micromachines</i> , 2022, 13, 655.	2.9	2
65	Une mÃ©thodologie de conception robuste en dynamique des structures. <i>European Journal of Computational Mechanics</i> , 2006, 15, 15-27.	0.6	1
66	Prediction condensed models adapted to the nonlinear structures in time domain. <i>Journal of Sound and Vibration</i> , 2009, 320, 668-690.	3.9	1
67	Optimisation robuste multi-niveaux et multi-objectif de structures mÃ©caniques complexes. <i>Mecanique Et Industries</i> , 2010, 11, 393-400.	0.2	1
68	Vibration transfer analysis of component interfaces by a power flow mode approach. <i>European Journal of Computational Mechanics</i> , 2011, 20, 29-47.	0.6	1
69	Reduced-order model for non-linear dynamic analysis of viscoelastic sandwich structures in time domain. <i>MATEC Web of Conferences</i> , 2014, 16, 08003.	0.2	1
70	Multistability and Modal Interactions in Periodic 2D Coupled Pendulums Array. , 2016, , .		1
71	Low cost metamodel for robust design of periodic nonlinear coupled micro-systems. <i>MATEC Web of Conferences</i> , 2016, 83, 05004.	0.2	1
72	Multistability and Bifurcation Topology in Electrostatically Coupled Nanobeams Under Parametric Resonance. , 2017, , .		1

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73	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
74	Vibration Energy Localization from Nonlinear Quasi-Periodic Coupled Magnets. Applied Condition Monitoring, 2019, , 121-128.	0.4	1
75	Updating of Finite Element Models Based on a Double Condensation Procedure Using Frequency Response Functions Data. , 1995, , .		1
76	Algebraic wavenumber identification method in presence of uncertainty. MATEC Web of Conferences, 2022, 360, 00005.	0.2	1
77	Non-linear Model Reduction Method Applied to Viscoelastically Damped Sandwich Structures. Lecture Notes in Mechanical Engineering, 2015, , 553-562.	0.4	0
78	Nonlinear Dynamic Response Analysis of Damaged Laminated Composite Structures. Lecture Notes in Mechanical Engineering, 2015, , 545-552.	0.4	0
79	Uncertainties Propagation through Robust Reduced Model. Lecture Notes in Mechanical Engineering, 2015, , 537-544.	0.4	0
80	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
81	Metamodel for nonlinear dynamic response analysis of damaged laminated composites. MATEC Web of Conferences, 2016, 83, 05006.	0.2	0
82	Robustness Analysis of the Collective Dynamics of Nonlinear Periodic Structures Under Parametric Uncertainty. , 2016, , .		0
83	Appropriation Effects in the Estimation of Modal Damping. Applied Condition Monitoring, 2017, , 185-193.	0.4	0
84	Collective Dynamics of Disordered Two Coupled Nonlinear Pendulums. Lecture Notes in Mechanical Engineering, 2018, , 931-940.	0.4	0
85	Optimization of vibration energy localization in quasi-periodic structures. MATEC Web of Conferences, 2018, 241, 01013.	0.2	0
86	Robustness of Nonlinear Electromagnetic Vibration Energy Harvester Subjected to Random Excitation. , 2018, , .		0
87	Design of a quasi-periodic vibration energy harvester based on an electromagnetic technique. MATEC Web of Conferences, 2018, 241, 01024.	0.2	0
88	High performances low frequency vibration energy harvester with HSLD stiffness. Journal of Physics: Conference Series, 2018, 1052, 012088.	0.4	0
89	Nonlinear multimodal electromagnetic device for vibration energy harvesting. MATEC Web of Conferences, 2019, 286, 01003.	0.2	0
90	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

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91	Reduction Method Applied to Viscoelastically Damped Finite Element Models. Lecture Notes in Mechanical Engineering, 2013, , 119-126.	0.4	0
92	Nonlinear Dynamics of a Hybrid Piezo-Electromagnetic Vibrating Energy Harvester. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 41-47.	0.5	0
93	An efficient time-domain finite element model reduction method for nonlinear systems. , 0, , .		0
94	Optimized Nonlinear MDOF Vibration Energy Harvester Based on Electromagnetic Coupling. Lecture Notes in Mechanical Engineering, 2018, , 31-38.	0.4	0
95	A Reliability Based Design Method Evaluation for a Coupled Fluid-Structure System. Lecture Notes in Mechanical Engineering, 2020, , 164-172.	0.4	0
96	A Low Cost Uncertainties Propagation Study for a Coupled Fluid Structure System. Lecture Notes in Mechanical Engineering, 2020, , 261-270.	0.4	0
97	Investigating the effects of Silicon etching imperfections on the quadrature error in MEMS gyroscopes. , 2022, , .		0