

Manuel Collet

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

992
citations

411340

20
h-index

488211

31
g-index

44
all docs

44
docs citations

44
times ranked

905
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadening low-frequency bandgaps in locally resonant piezoelectric metamaterials by negative capacitance. <i>Journal of Sound and Vibration</i> , 2021, 493, 115837.	2.1	46
2	Exploring Metamaterials' Structures Through the Relaxed Micromorphic Model: Switching an Acoustic Screen Into an Acoustic Absorber. <i>Frontiers in Materials</i> , 2021, 7, .	1.2	15
3	Experimental modal identification of smart composite structure applied to active vibration control. <i>Smart Materials and Structures</i> , 2021, 30, 115008.	1.8	4
4	Programmable metamaterials with digital synthetic impedance circuits for vibration control. <i>Smart Materials and Structures</i> , 2020, 29, 035005.	1.8	45
5	Computation of dispersion diagrams for periodic porous materials modeled as equivalent fluids. <i>Mechanical Systems and Signal Processing</i> , 2020, 142, 106749.	4.4	18
6	Experimental realization of a reconfigurable electroacoustic topological insulator. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16138-16142.	3.3	54
7	The 2016 ASME Conference on Smart Materials, Adaptive Structures and Intelligent Systems: Symposium on modeling, simulation, and control of adaptive systems. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 1366-1367.	1.4	0
8	Active vibration control in specific zones of smart structures. <i>Control Engineering Practice</i> , 2019, 84, 305-322.	3.2	7
9	Modeling Phononic Crystals via the Weighted Relaxed Micromorphic Model with Free and Gradient Micro-Inertia. <i>Journal of Elasticity</i> , 2018, 130, 59-83.	0.9	26
10	Relaxed micromorphic modeling of the interface between a homogeneous solid and a band-gap metamaterial: New perspectives towards metastructural design. <i>Mathematics and Mechanics of Solids</i> , 2018, 23, 1485-1506.	1.5	14
11	Multi-variable model reduction of smart structure in active vibration control. <i>IFAC-PapersOnLine</i> , 2018, 51, 441-446.	0.5	0
12	One-way energy insulation using time-space modulated structures. <i>Journal of Sound and Vibration</i> , 2018, 429, 162-175.	2.1	14
13	Wave Electromechanical Coupling Factor for the Guided Waves in Piezoelectric Composites. <i>Materials</i> , 2018, 11, 1406.	1.3	3
14	Reflection and transmission of waves incident on time-space modulated media. <i>Physical Review B</i> , 2018, 98, .	1.1	8
15	Design of smart metamaterials for vibration control: extension of Bloch approach to handle finite system boundary conditions. , 2018, , .		1
16	Enhanced wave and finite element method for wave propagation and forced response prediction in periodic piezoelectric structures. <i>Chinese Journal of Aeronautics</i> , 2017, 30, 75-87.	2.8	21
17	Sound insulation performance of plates with interconnected distributed piezoelectric patches. <i>Chinese Journal of Aeronautics</i> , 2017, 30, 99-108.	2.8	13
18	Enhancement of elastic wave energy harvesting using adaptive piezo-lens. <i>Mechanical Systems and Signal Processing</i> , 2017, 93, 255-266.	4.4	21

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19	Wave sensitivity analysis for periodic and arbitrarily complex composite structures. <i>Engineering Computations</i> , 2017, 34, 1572-1597.	0.7	1
20	Frequency conversion induced by time-space modulated media. <i>Physical Review B</i> , 2017, 96, .	1.1	26
21	Mechanics and band gaps in hierarchical auxetic rectangular perforated composite metamaterials. <i>Composite Structures</i> , 2017, 160, 1042-1050.	3.1	77
22	A piezo-shunted kirigami auxetic lattice for adaptive elastic wave filtering. <i>Smart Materials and Structures</i> , 2016, 25, 115016.	1.8	55
23	Collective dynamics of periodic nonlinear oscillators under simultaneous parametric and external excitations. <i>Nonlinear Dynamics</i> , 2015, 82, 749-766.	2.7	21
24	Damping Enhancement of Composite Panels by Inclusion of Shunted Piezoelectric Patches: A Wave-Based Modelling Approach. <i>Materials</i> , 2015, 8, 815-828.	1.3	5
25	Adaptive Metacomposites for Vibroacoustic Control Applications. <i>IEEE Sensors Journal</i> , 2014, 14, 2145-2152.	2.4	25
26	Response-based tuning of a negative capacitance shunt for vibration control. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 1585-1595.	1.4	16
27	Synthetic Impedance for Adaptive Piezoelectric Metacomposite. <i>Procedia Technology</i> , 2014, 15, 84-89.	1.1	21
28	The power output and efficiency of a negative capacitance shunt for vibration control of a flexural system. <i>Smart Materials and Structures</i> , 2013, 22, 065009.	1.8	47
29	Kirigami Auxetic Pyramidal Core: Mechanical Properties and Wave Propagation Analysis in Damped Lattice. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2013, 135, .	1.0	37
30	Integrated temperature sensor based on an enhanced pyroelectric photonic crystal. <i>Optics Express</i> , 2013, 21, 16311.	1.7	48
31	Multimodal wave propagation in smart composite structures with shunted piezoelectric patches. <i>Journal of Intelligent Material Systems and Structures</i> , 2013, 24, 1155-1175.	1.4	3
32	Structural energy flow optimization through adaptive shunted piezoelectric metacomposites. <i>Journal of Intelligent Material Systems and Structures</i> , 2012, 23, 1661-1677.	1.4	40
33	Adaptive metacomposites for vibroacoustic control applications. , 2012, , .		0
34	On the sensitivity analysis of porous material models. <i>Journal of Sound and Vibration</i> , 2012, 331, 5292-5308.	2.1	36
35	Lithium niobate photonic crystal wire cavity: Realization of a compact electro-optically tunable filter. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	25
36	Structural multi-modal damping by optimizing shunted piezoelectric transducers. <i>European Journal of Computational Mechanics</i> , 2011, 20, 73-102.	0.6	12

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37	Experimental Analysis of a Cantilever Beam with a Shunted Piezoelectric Periodic Array. Journal of Intelligent Material Systems and Structures, 2011, 22, 1177-1187.	1.4	70
38	Sur la réponse transitoire d'une structure en alliage à mémoire de forme soumise à un impact. Mecanique Et Industries, 2010, 11, 407-417.	0.2	0
39	Numerical Tools for Semi-Active Optimization of 2D Wave's Dispersion Into Mechanical System. , 2010, , .		3
40	Isothermal and anisothermal implementations of 2D shape memory alloy modeling for transient impact response calculation. Smart Materials and Structures, 2009, 18, 125019.	1.8	7
41	Optimisation structurale de problèmes d'amortissement de type shunt résistif. Mecanique Et Industries, 2009, 10, 109-120.	0.2	3
42	Implementation of a model taking into account the asymmetry between tension and compression, the temperature effects in a finite element code for shape memory alloys structures calculations. Computational Materials Science, 2007, 41, 208-221.	1.4	35
43	A piezo-mechanical characterization of PZT thick films screen-printed on alumina substrate. Sensors and Actuators A: Physical, 2002, 96, 157-166.	2.0	65