

Jean-Francois De

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

1,868
citations

24
h-index

40
g-index

94
ext. papers

2,143
ext. citations

2.9
avg, IF

5.24
L-index

#	Paper	IF	Citations
89	Finite element formulation of viscoelastic sandwich beams using fractional derivative operators. <i>Computational Mechanics</i> , 2004 , 33, 282-291	4	162
88	A mesomodel for localisation and damage computation in laminates. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 183, 105-122	5.7	127
87	Performance of piezoelectric shunts for vibration reduction. <i>Smart Materials and Structures</i> , 2012 , 21, 015008	3.4	114
86	Vibrations of an elastic structure with shunted piezoelectric patches: efficient finite element formulation and electromechanical coupling coefficients. <i>International Journal for Numerical Methods in Engineering</i> , 2009 , 80, 235-268	2.4	98
85	Placement and dimension optimization of shunted piezoelectric patches for vibration reduction. <i>Journal of Sound and Vibration</i> , 2012 , 331, 3286-3303	3.9	83
84	Free vibrations of simply-supported piezoelectric adaptive plates: an exact sandwich formulation. <i>Thin-Walled Structures</i> , 2002 , 40, 573-593	4.7	75
83	Finite element reduced order models for nonlinear vibrations of piezoelectric layered beams with applications to NEMS. <i>Finite Elements in Analysis and Design</i> , 2012 , 49, 35-51	2.2	62
82	Application of Kramers-Kronig relations to time-temperature superposition for viscoelastic materials. <i>Mechanics of Materials</i> , 2013 , 65, 66-75	3.3	55
81	A two-dimensional closed-form solution for the free-vibrations analysis of piezoelectric sandwich plates. <i>International Journal of Solids and Structures</i> , 2002 , 39, 1463-1486	3.1	48
80	Structural Vibration Reduction by Switch Shunting of Piezoelectric Elements: Modeling and Optimization. <i>Journal of Intelligent Material Systems and Structures</i> , 2010 , 21, 797-816	2.3	46
79	A Fractional Derivative Viscoelastic Model for Hybrid Active-Passive Damping Treatments in Time Domain - Application to Sandwich Beams. <i>Journal of Intelligent Material Systems and Structures</i> , 2005 , 16, 33-45	2.3	45
78	Hardening/softening behavior and reduced order modeling of nonlinear vibrations of rotating cantilever beams. <i>Nonlinear Dynamics</i> , 2016 , 86, 1293-1318	5	44
77	Finite element formulation of smart piezoelectric composite plates coupled with acoustic fluid. <i>Composite Structures</i> , 2012 , 94, 501-509	5.3	42
76	Vibroacoustic analysis of double-wall sandwich panels with viscoelastic core. <i>Computers and Structures</i> , 2016 , 174, 92-103	4.5	40
75	A comparison of model reduction techniques based on modal projection for structures with frequency-dependent damping. <i>Mechanical Systems and Signal Processing</i> , 2017 , 90, 110-125	7.8	34
74	Simulation of fractionally damped mechanical systems by means of a Newmark-diffusive scheme. <i>Computers and Mathematics With Applications</i> , 2010 , 59, 1745-1753	2.7	34
73	Dynamic responses of flexible-link mechanisms with passive/active damping treatment. <i>Computers and Structures</i> , 2008 , 86, 258-265	4.5	33

72	Multimodal vibration damping of a plate by piezoelectric coupling to its analogous electrical network. <i>Smart Materials and Structures</i> , 2016 , 25, 115042	3.4	32
71	Design of inductors with high inductance values for resonant piezoelectric damping. <i>Sensors and Actuators A: Physical</i> , 2017 , 259, 68-76	3.9	31
70	Multimodal vibration damping of a beam with a periodic array of piezoelectric patches connected to a passive electrical network. <i>Smart Materials and Structures</i> , 2015 , 24, 115037	3.4	31
69	Free-vibration analysis of laminated plates with embedded shear-mode piezoceramic layers. <i>International Journal of Solids and Structures</i> , 2005 , 42, 2059-2088	3.1	30
68	Piezoelectric Transverse Shear Actuation and Sensing of Plates, Part 1: A Three-Dimensional Mixed State Space Formulation. <i>Journal of Intelligent Material Systems and Structures</i> , 2001 , 12, 435-449	2.3	30
67	Piezoelectric structural acoustic problems: Symmetric variational formulations and finite element results. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008 , 197, 1715-1724	5.7	28
66	On the frequency response computation of geometrically nonlinear flat structures using reduced-order finite element models. <i>Nonlinear Dynamics</i> , 2019 , 97, 1747-1781	5	24
65	A fully passive nonlinear piezoelectric vibration absorber. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	23
64	Structural-Acoustic Vibration Reduction Using Switched Shunt Piezoelectric Patches: A Finite Element Analysis. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2010 , 132,	1.6	21
63	An adaptation of the Gear scheme for fractional derivatives. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 6073-6085	5.7	21
62	Coupled FEM/BEM for control of noise radiation and sound transmission using piezoelectric shunt damping. <i>Applied Acoustics</i> , 2014 , 86, 146-153	3.1	19
61	Vibro-acoustic study of a viscoelastic sandwich ring immersed in water. <i>Journal of Sound and Vibration</i> , 2012 , 331, 522-539	3.9	18
60	A modal-based reduction method for sound absorbing porous materials in poro-acoustic finite element models. <i>Journal of the Acoustical Society of America</i> , 2012 , 132, 3162-79	2.2	18
59	Vibration and transient response of structural-acoustic interior coupled systems with dissipative interface. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008 , 197, 4894-4905	5.7	18
58	Piezoelectric Transverse Shear Actuation and Sensing of Plates, Part 2: Application and Analysis. <i>Journal of Intelligent Material Systems and Structures</i> , 2001 , 12, 451-467	2.3	18
57	Non-intrusive reduced order modelling for the dynamics of geometrically nonlinear flat structures using three-dimensional finite elements. <i>Computational Mechanics</i> , 2020 , 66, 1293-1319	4	18
56	Wave properties in poroelastic media using a Wave Finite Element Method. <i>Journal of Sound and Vibration</i> , 2015 , 335, 125-146	3.9	17
55	Piezoelectric Shunt Vibration Damping of Structural-Acoustic Systems: Finite Element Formulation and Reduced-Order Model. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2014 , 136,	1.6	17

54	Topology optimization of shunted piezoelectric elements for structural vibration reduction. <i>Journal of Intelligent Material Systems and Structures</i> , 2015 , 26, 1219-1235	2.3	16
53	A new finite element formulation for internal acoustic problems with dissipative walls. <i>International Journal for Numerical Methods in Engineering</i> , 2006 , 68, 381-399	2.4	16
52	Finite element reduced order model for noise and vibration reduction of double sandwich panels using shunted piezoelectric patches. <i>Applied Acoustics</i> , 2016 , 108, 40-49	3.1	15
51	Multimodal coupling of periodic lattices and application to rod vibration damping with a piezoelectric network. <i>Smart Materials and Structures</i> , 2015 , 24, 045018	3.4	15
50	Vibration of axisymmetric composite piezoelectric shells coupled with internal fluid. <i>International Journal for Numerical Methods in Engineering</i> , 2007 , 71, 1412-1435	2.4	15
49	Practical issues on the applicability of Kalman filtering for reconstructing mechanical sources in structural dynamics. <i>Journal of Sound and Vibration</i> , 2019 , 442, 45-70	3.9	15
48	On a space-time regularization for force reconstruction problems. <i>Mechanical Systems and Signal Processing</i> , 2019 , 118, 549-567	7.8	14
47	Wafer-scale fabrication of self-actuated piezoelectric nanoelectromechanical resonators based on lead zirconate titanate (PZT). <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 035002	2	13
46	Performance of a restrained-interface substructuring FE model for reduction of structural-acoustic problems with poroelastic damping. <i>Computers and Structures</i> , 2011 , 89, 2233-2248	4.5	13
45	Broadband vibration damping of non-periodic plates by piezoelectric coupling to their electrical analogues. <i>Smart Materials and Structures</i> , 2020 , 29, 054001	3.4	12
44	Passive self-tuning inductor for piezoelectric shunt damping considering temperature variations. <i>Journal of Sound and Vibration</i> , 2018 , 432, 105-118	3.9	12
43	A finite element approach combining a reduced-order system, Padé approximants, and an adaptive frequency windowing for fast multi-frequency solution of poro-acoustic problems. <i>International Journal for Numerical Methods in Engineering</i> , 2014 , 97, 759-784	2.4	11
42	Reduced order finite element formulations for vibration reduction using piezoelectric shunt damping. <i>Applied Acoustics</i> , 2019 , 147, 111-120	3.1	11
41	Viscoelastic behavior of polymeric foams: Experiments and modeling. <i>Mechanics of Materials</i> , 2020 , 148, 103506	3.3	10
40	A 3D state-space solution for free-vibration analysis of a radially polarized laminated piezoelectric cylinder filled with fluid. <i>Journal of Sound and Vibration</i> , 2011 , 330, 162-181	3.9	10
39	An efficient FE approach for attenuation of acoustic radiation of thin structures by using passive shunted piezoelectric systems. <i>Applied Acoustics</i> , 2017 , 128, 3-13	3.1	9
38	A residue-based mode selection and sorting procedure for efficient poroelastic modeling in acoustic finite element applications. <i>Journal of the Acoustical Society of America</i> , 2013 , 134, 4730	2.2	9
37	The GBScheme for Approximation of Fractional Derivatives: Application to the Dynamics of Dissipative Systems. <i>JVC/Journal of Vibration and Control</i> , 2008 , 14, 1597-1605	2	9

36	Interface finite elements for the modelling of constrained viscoelastic layers. <i>Composite Structures</i> , 2018 , 204, 847-854	5.3	8
35	Reduced order models for dynamic behavior of elastomer damping devices. <i>Finite Elements in Analysis and Design</i> , 2018 , 143, 66-75	2.2	6
34	Dynamics of piezoelectric structures with geometric nonlinearities: A non-intrusive reduced order modelling strategy. <i>Computers and Structures</i> , 2021 , 253, 106575	4.5	6
33	Electromechanical wave finite element method for interconnected piezoelectric waveguides. <i>Computers and Structures</i> , 2018 , 199, 46-56	4.5	5
32	Design of a passive electrical analogue for piezoelectric damping of a plate. <i>Journal of Intelligent Material Systems and Structures</i> , 2018 , 29, 1301-1314	2.3	5
31	Comments on the paper On nonlinear dynamics behavior of an electro-mechanical pendulum excited by a nonideal motor and a chaos control taking into account parametric errors published in this journal. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019 , 41, 1	2	5
30	Hybrid Active/Passive Damping Treatment of Sandwich Beams in Non-linear Dynamics. <i>JVC/Journal of Vibration and Control</i> , 2007 , 13, 851-881	2	5
29	Experimental analysis of nonlinear resonances in piezoelectric plates with geometric nonlinearities. <i>Nonlinear Dynamics</i> , 2020 , 102, 1451-1462	5	5
28	Experimental and Numerical Analysis of Sound Transmission Loss Through Double Glazing Windows. <i>Applied Condition Monitoring</i> , 2019 , 195-203	0.2	5
27	Vibroacoustic response sensitivity due to relative alignment of two anisotropic poro-elastic layers. <i>Journal of the Acoustical Society of America</i> , 2013 , 133, EL426-30	2.2	4
26	Electrical analogs of curved beams and application to piezoelectric network damping. <i>Mathematics and Mechanics of Solids</i> , 108128652110276	2.3	4
25	On the Use of Transfer Approaches to Predict the Vibroacoustic Response of Poroelastic Media. <i>Journal of Computational Acoustics</i> , 2016 , 24, 1550020		3
24	Design of Shunted Piezoelectric Patches Using Topology Optimization for Noise and Vibration Attenuation. <i>Applied Condition Monitoring</i> , 2017 , 23-33	0.2	3
23	Vibration damping of marine lifting surfaces with resonant piezoelectric shunts. <i>Journal of Sound and Vibration</i> , 2021 , 496, 115921	3.9	3
22	Nonlinear equilibrium of partially liquid-filled tanks: A finite element/level-set method to handle hydrostatic follower forces. <i>International Journal of Non-Linear Mechanics</i> , 2019 , 113, 112-127	2.8	2
21	Non-linear finite element analysis of an elastic structure loaded by hydrostatic follower forces. <i>Procedia Engineering</i> , 2017 , 199, 1302-1307		2
20	Multimodal vibration damping through a periodic array of piezoelectric patches connected to a passive network 2015 ,		2
19	Variational Formulations of Interior Structural-Acoustic Vibration Problems. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2008 , 1-21	0.6	2

18	Time-domain analysis of viscoelastic systems. <i>Procedia Engineering</i> , 2017 , 199, 384-390		1
17	Robustness of a multimodal piezoelectric damping involving the electrical analogue of a plate 2016		1
16	Absorbing interfaces in structural-acoustic coupled problems. <i>European Journal of Computational Mechanics</i> , 2008 , 17, 677-688	0.5	1
15	Structural Vibration Reduction Optimization by Switch Shunting of Piezoelectric Elements 2007 , 339		1
14	Atténuation des vibrations de structures par traitement piézoélectrique/viscoélastique en utilisant un modèle à pôles fractionnaires. <i>Revue Européenne Des Elements</i> , 2004 , 13, 509-521		1
13	Vibro-Acoustic Analysis of Laminated Double-Wall: Finite Element Formulation and Reduced-Order Model. <i>Applied Condition Monitoring</i> , 2015 , 349-358	0.2	1
12	Vibration reduction of a woven composite fan blade by piezoelectric shunted devices. <i>Journal of Physics: Conference Series</i> , 2016 , 744, 012164	0.3	1
11	Comparison of passive inductor designs for piezoelectric shunt damping 2016 ,		1
10	Inverse characterisation of frequency-dependent properties of adhesives. <i>Journal of Physics: Conference Series</i> , 2016 , 744, 012193	0.3	1
9	Multimodal Damping of a Plate with a Passive Piezoelectric Network. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 111-117	0.3	1
8	An analogue twin for piezoelectric vibration damping of multiple nonlinear resonances. <i>Journal of Sound and Vibration</i> , 2021 , 511, 116323	3.9	1
7	Effect of parametric uncertainties on vibration mitigation with periodically distributed and interconnected piezoelectric patches. <i>Journal of Intelligent Material Systems and Structures</i> , 2021 , 32, 971-985	2.3	0
6	On the interest of a space-time regularization for reconstructing sparse excitation sources. <i>Journal of Physics: Conference Series</i> , 2019 , 1264, 012053	0.3	
5	A General Framework for Time Domain Finite Element Analysis of Viscoelastically Damped Structures. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 383-385	0.3	
4	Formulation éléments finis de problèmes élastoacoustiques avec interface dissipative. <i>European Journal of Computational Mechanics</i> , 2006 , 15, 245-256	0.5	
3	An Analytical Solution for Vibration Reduction of a Thin Rectangular Plate Using Shunted Piezoelectric Patches. <i>Lecture Notes in Mechanical Engineering</i> , 2015 , 585-595	0.4	
2	Coupled Finite Element-Boundary Element Formulation for Noise and Vibration Attenuation Using Shunt Piezoelectric Materials. <i>Lecture Notes in Mechanical Engineering</i> , 2013 , 127-134	0.4	
1	Reduced Order Models for Dynamic Behavior of Elastomer Damping Devices. <i>Journal of Physics: Conference Series</i> , 2016 , 744, 012134	0.3	

