

Sondipon Adhikari

List of Publications by Year in descending order

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425
papers

15,010
citations

16437

64
h-index

39638

94
g-index

456
all docs

456
docs citations

456
times ranked

6950
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective elastic mechanical properties of single layer graphene sheets. <i>Nanotechnology</i> , 2009, 20, 065709.	1.3	438
2	Non-linear piezoelectric vibration energy harvesting from a vertical cantilever beam with tip mass. <i>Journal of Intelligent Material Systems and Structures</i> , 2012, 23, 1505-1521.	1.4	302
3	Magnetopiezoelastic energy harvesting driven by random excitations. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	290
4	Piezoelectric energy harvesting from broadband random vibrations. <i>Smart Materials and Structures</i> , 2009, 18, 115005.	1.8	280
5	Effective mechanical properties of hexagonal boron nitride nanosheets. <i>Nanotechnology</i> , 2011, 22, 505702.	1.3	216
6	Vibration of nonlocal Kelvinâ€™Voigt viscoelastic damped Timoshenko beams. <i>International Journal of Engineering Science</i> , 2013, 66-67, 1-13.	2.7	195
7	IDENTIFICATION OF DAMPING: PART 1, VISCOUS DAMPING. <i>Journal of Sound and Vibration</i> , 2001, 243, 43-61.	2.1	193
8	Vibrating carbon nanotube based bio-sensors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 42, 104-109.	1.3	165
9	Damping modelling using generalized proportional damping. <i>Journal of Sound and Vibration</i> , 2006, 293, 156-170.	2.1	145
10	Nonlocal transverse vibration of double-nanobeam-systems. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	140
11	Vibration response of double-walled carbon nanotubes subjected to an externally applied longitudinal magnetic field: A nonlocal elasticity approach. <i>Journal of Sound and Vibration</i> , 2012, 331, 5069-5086.	2.1	138
12	Experimental validation of soilâ€™structure interaction of offshore wind turbines. <i>Soil Dynamics and Earthquake Engineering</i> , 2011, 31, 805-816.	1.9	132
13	IDENTIFICATION OF DAMPING: PART 2, NON-VISCOUS DAMPING. <i>Journal of Sound and Vibration</i> , 2001, 243, 63-88.	2.1	129
14	Dynamic Analysis of Wind Turbine Towers on Flexible Foundations. <i>Shock and Vibration</i> , 2012, 19, 37-56.	0.3	129
15	A molecular mechanics approach for the vibration of single-walled carbon nanotubes. <i>Computational Materials Science</i> , 2010, 48, 730-735.	1.4	121
16	Nonlocal effects in the longitudinal vibration of double-nanorod systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 43, 415-422.	1.3	119
17	Symmetric State-Space Method for a Class of Nonviscously Damped Systems. <i>AIAA Journal</i> , 2003, 41, 951-956.	1.5	118
18	Bridging proper orthogonal decomposition methods and augmented Newtonâ€™Krylov algorithms: An adaptive model order reduction for highly nonlinear mechanical problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 850-866.	3.4	118

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19	Metamodel based high-fidelity stochastic analysis of composite laminates: A concise review with critical comparative assessment. <i>Composite Structures</i> , 2017, 171, 227-250.	3.1	118
20	Eigenderivative analysis of asymmetric non-conservative systems. <i>International Journal for Numerical Methods in Engineering</i> , 2001, 51, 709-733.	1.5	110
21	Analysis of energy harvesters for highway bridges. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 1929-1938.	1.4	109
22	Dynamics of Nonviscously Damped Linear Systems. <i>Journal of Engineering Mechanics - ASCE</i> , 2002, 128, 328-339.	1.6	108
23	In-plane magnetic field affected transverse vibration of embedded single-layer graphene sheets using equivalent nonlocal elasticity approach. <i>Composite Structures</i> , 2013, 96, 57-63.	3.1	108
24	The bending of single layer graphene sheets: the lattice versus continuum approach. <i>Nanotechnology</i> , 2010, 21, 125702.	1.3	105
25	Vibrations of wind-turbines considering soil-structure interaction. <i>Wind and Structures, an International Journal</i> , 2011, 14, 85-112.	0.8	104
26	Rates of Change of Eigenvalues and Eigenvectors in Damped Dynamic System. <i>AIAA Journal</i> , 1999, 37, 1452-1458.	1.5	102
27	The analysis of piezomagnetoelastic energy harvesters under broadband random excitations. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	102
28	Nonlocal vibration of bonded double-nanoplate-systems. <i>Composites Part B: Engineering</i> , 2011, 42, 1901-1911.	5.9	97
29	A Critical Assessment of Kriging Model Variants for High-Fidelity Uncertainty Quantification in Dynamics of composite Shells. <i>Archives of Computational Methods in Engineering</i> , 2017, 24, 495-518.	6.0	94
30	Effective in-plane elastic properties of auxetic honeycombs with spatial irregularity. <i>Mechanics of Materials</i> , 2016, 95, 204-222.	1.7	93
31	Stochastic natural frequency analysis of damaged thin-walled laminated composite beams with uncertainty in micromechanical properties. <i>Composite Structures</i> , 2017, 160, 312-334.	3.1	93
32	Dynamic characteristics of damped viscoelastic nonlocal Euler-Bernoulli beams. <i>European Journal of Mechanics, A/Solids</i> , 2013, 42, 125-136.	2.1	91
33	Uncertain natural frequency analysis of composite plates including effect of noise - A polynomial neural network approach. <i>Composite Structures</i> , 2016, 143, 130-142.	3.1	89
34	Energy Harvesting Dynamic Vibration Absorbers. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, .	1.1	88
35	A Galerkin-type state-space approach for transverse vibrations of slender double-beam systems with viscoelastic inner layer. <i>Journal of Sound and Vibration</i> , 2011, 330, 6372-6386.	2.1	87
36	Effective in-plane elastic moduli of quasi-random spatially irregular hexagonal lattices. <i>International Journal of Engineering Science</i> , 2017, 119, 142-179.	2.7	87

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37	Derivatives of Complex Eigenvectors Using Nelson's Method. AIAA Journal, 2000, 38, 2355-2357.	1.5	85
38	A mechanical equivalence for Poisson's ratio and thickness of C-C bonds in single wall carbon nanotubes. Journal Physics D: Applied Physics, 2008, 41, 085306.	1.3	85
39	Sensor shape design for piezoelectric cantilever beams to harvest vibration energy. Journal of Applied Physics, 2010, 108, .	1.1	85
40	Influence of pyrolysis parameters on phosphorus fractions of biosolids derived biochar. Science of the Total Environment, 2019, 695, 133846.	3.9	85
41	Nonlocal buckling of double-nanoplate-systems under biaxial compression. Composites Part B: Engineering, 2013, 44, 84-94.	5.9	83
42	Nonlocal vibration of carbon nanotubes with attached buckyballs at tip. Mechanics Research Communications, 2011, 38, 62-67.	1.0	82
43	Nonlocal frequency analysis of nanoscale biosensors. Sensors and Actuators A: Physical, 2012, 173, 41-48.	2.0	82
44	Free-Vibration Analysis of Sandwich Panels with Randomly Irregular Honeycomb Core. Journal of Engineering Mechanics - ASCE, 2016, 142, .	1.6	81
45	Axial instability of double-nanobeam-systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 601-608.	0.9	80
46	Random matrix eigenvalue problems in structural dynamics. International Journal for Numerical Methods in Engineering, 2007, 69, 562-591.	1.5	79
47	Stochastic free vibration analyses of composite shallow doubly curved shells – A Kriging model approach. Composites Part B: Engineering, 2015, 70, 99-112.	5.9	79
48	System reliability analysis of soil slopes with general slip surfaces using multivariate adaptive regression splines. Computers and Geotechnics, 2017, 87, 212-228.	2.3	79
49	Direct time-domain integration method for exponentially damped linear systems. Computers and Structures, 2004, 82, 2453-2461.	2.4	78
50	Non-linear energy harvesting from coupled impacting beams. International Journal of Mechanical Sciences, 2015, 96-97, 101-109.	3.6	78
51	A Galerkin method for distributed systems with non-local damping. International Journal of Solids and Structures, 2006, 43, 3381-3400.	1.3	76
52	Vibration frequency of graphene based composites: A multiscale approach. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 303-310.	1.7	76
53	Stochastic mechanics of metamaterials. Composite Structures, 2017, 162, 85-97.	3.1	76
54	A piezoelectric device for impact energy harvesting. Smart Materials and Structures, 2011, 20, 105008.	1.8	74

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55	Optimal complex modes and an index of damping non-proportionality. <i>Mechanical Systems and Signal Processing</i> , 2004, 18, 1-27.	4.4	73
56	Graphene-based biosensor using transport properties. <i>Physical Review B</i> , 2011, 83, .	1.1	73
57	Transverse vibration of single-layer graphene sheets. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 205401.	1.3	73
58	An analytical model to predict the natural frequency of offshore wind turbines on three-spring flexible foundations using two different beam models. <i>Soil Dynamics and Earthquake Engineering</i> , 2015, 74, 40-45.	1.9	73
59	Equivalent in-plane elastic properties of irregular honeycombs: An analytical approach. <i>International Journal of Solids and Structures</i> , 2016, 91, 169-184.	1.3	72
60	Dynamic analysis of framed structures with statistical uncertainties. <i>International Journal for Numerical Methods in Engineering</i> , 1999, 44, 1157-1178.	1.5	71
61	Piezoelectric energy harvesting with parametric uncertainty. <i>Smart Materials and Structures</i> , 2010, 19, 105010.	1.8	71
62	Stochastic free vibration analysis of angle-ply composite plates – A RS-HDMR approach. <i>Composite Structures</i> , 2015, 122, 526-536.	3.1	70
63	Dynamic stiffness of randomly parametered beams. <i>Probabilistic Engineering Mechanics</i> , 1998, 13, 39-51.	1.3	67
64	The calibration of carbon nanotube based bionanosensors. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	67
65	Torsional vibration of carbon nanotube–buckyball systems based on nonlocal elasticity theory. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1276-1280.	1.3	67
66	Nonlocal elasticity based vibration of initially pre-stressed coupled nanobeam systems. <i>European Journal of Mechanics, A/Solids</i> , 2012, 34, 52-62.	2.1	67
67	Fuzzy uncertainty propagation in composites using Gram–Schmidt polynomial chaos expansion. <i>Applied Mathematical Modelling</i> , 2016, 40, 4412-4428.	2.2	67
68	Dynamic finite element analysis of axially vibrating nonlocal rods. <i>Finite Elements in Analysis and Design</i> , 2013, 63, 42-50.	1.7	65
69	Nonlocal mass-nanosensor model based on the damped vibration of single-layer graphene sheet influenced by in-plane magnetic field. <i>International Journal of Mechanical Sciences</i> , 2015, 96-97, 132-142.	3.6	65
70	On quantifying the effect of noise in surrogate based stochastic free vibration analysis of laminated composite shallow shells. <i>Composite Structures</i> , 2016, 140, 798-805.	3.1	65
71	The role of surrogate models in the development of digital twins of dynamic systems. <i>Applied Mathematical Modelling</i> , 2021, 90, 662-681.	2.2	63
72	Model selection in finite element model updating using the Bayesian evidence statistic. <i>Mechanical Systems and Signal Processing</i> , 2011, 25, 2399-2412.	4.4	62

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73	Nonlocal mass nanosensors based on vibrating monolayer graphene sheets. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 1319-1327.	4.0	62
74	Inertial amplification band-gap generation by coupling a levered mass with a locally resonant mass. <i>International Journal of Mechanical Sciences</i> , 2021, 207, 106630.	3.6	61
75	Boron-Nitride Nanotubes as Zeptogram-Scale Bionanosensors: Theoretical Investigations. <i>IEEE Nanotechnology Magazine</i> , 2011, 10, 659-667.	1.1	60
76	Homogenization of porous piezoelectric materials. <i>International Journal of Solids and Structures</i> , 2017, 113-114, 218-229.	1.3	60
77	Scale-dependent vibration analysis of prestressed carbon nanotubes undergoing rotation. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	59
78	Machine learning based digital twin for dynamical systems with multiple time-scales. <i>Computers and Structures</i> , 2021, 243, 106410.	2.4	59
79	Vibration analysis of beams with non-local foundations using the finite element method. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 71, 1365-1386.	1.5	57
80	Eigenvalues of linear viscoelastic systems. <i>Journal of Sound and Vibration</i> , 2009, 325, 1000-1011.	2.1	57
81	Mechanisms of nonlocal effect on the vibration of nanoplates. <i>Applied Physics Letters</i> , 2011, 98, 153101.	1.5	57
82	Nonlocal longitudinal vibration of viscoelastic coupled double-nanorod systems. <i>European Journal of Mechanics, A/Solids</i> , 2015, 49, 183-196.	2.1	56
83	Pullout strength of graphene and carbon nanotube/epoxy composites. <i>Composites Part B: Engineering</i> , 2016, 102, 1-8.	5.9	56
84	Surface effect on the buckling of piezoelectric nanofilms. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 285301.	1.3	55
85	Effect of cutout on stochastic natural frequency of composite curved panels. <i>Composites Part B: Engineering</i> , 2016, 105, 188-202.	5.9	55
86	Probabilistic characterisation for dynamics and stability of laminated soft core sandwich plates. <i>Journal of Sandwich Structures and Materials</i> , 2019, 21, 366-397.	2.0	55
87	Calculation of derivative of complex modes using classical normal modes. <i>Computers and Structures</i> , 2000, 77, 625-633.	2.4	54
88	Quantification of non-viscous damping in discrete linear systems. <i>Journal of Sound and Vibration</i> , 2003, 260, 499-518.	2.1	54
89	The digital twin of discrete dynamic systems: Initial approaches and future challenges. <i>Applied Mathematical Modelling</i> , 2020, 77, 1110-1128.	2.2	54
90	Distributed parameter model updating using the Karhunen-Loève expansion. <i>Mechanical Systems and Signal Processing</i> , 2010, 24, 326-339.	4.4	53

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91	Effective mechanical properties of multilayer nano-heterostructures. <i>Scientific Reports</i> , 2017, 7, 15818.	1.6	53
92	Zeptogram sensing from gigahertz vibration: Graphene based nanosensor. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1528-1534.	1.3	52
93	Qualitative dynamic characteristics of a non-viscously damped oscillator. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2005, 461, 2269-2288.	1.0	51
94	Optical properties of silicon doped ZnO. <i>Physica B: Condensed Matter</i> , 2010, 405, 4763-4767.	1.3	51
95	A spectral approach for fuzzy uncertainty propagation in finite element analysis. <i>Fuzzy Sets and Systems</i> , 2014, 243, 1-24.	1.6	51
96	Fokker-Planck equation analysis of randomly excited nonlinear energy harvester. <i>Journal of Sound and Vibration</i> , 2014, 333, 2040-2053.	2.1	51
97	Bottom up surrogate based approach for stochastic frequency response analysis of laminated composite plates. <i>Composite Structures</i> , 2016, 140, 712-727.	3.1	51
98	Frequency domain homogenization for the viscoelastic properties of spatially correlated quasi-periodic lattices. <i>International Journal of Mechanical Sciences</i> , 2019, 150, 784-806.	3.6	51
99	Eigenrelations for Nonviscously Damped Systems. <i>AIAA Journal</i> , 2001, 39, 1624-1630.	1.5	50
100	The transverse elasticity of bilayer graphene. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 2053-2057.	0.9	50
101	Vibration and symmetry-breaking of boron nitride nanotubes. <i>Nanotechnology</i> , 2010, 21, 365702.	1.3	50
102	Probing the shear modulus of two-dimensional multiplanar nanostructures and heterostructures. <i>Nanoscale</i> , 2018, 10, 5280-5294.	2.8	50
103	Non-local finite element analysis of damped beams. <i>International Journal of Solids and Structures</i> , 2007, 44, 7564-7576.	1.3	49
104	Energy harvesting by two magnetopiezoelectric oscillators with mistuning. <i>Theoretical and Applied Mechanics Letters</i> , 2012, 2, 043009.	1.3	49
105	Exact closed-form solution for non-local vibration and biaxial buckling of bonded multi-nanoplate system. <i>Composites Part B: Engineering</i> , 2014, 66, 328-339.	5.9	49
106	Design of MEMS piezoelectric harvesters with electrostatically adjustable resonance frequency. <i>Mechanical Systems and Signal Processing</i> , 2016, 81, 360-374.	4.4	49
107	Rotational and ply-level uncertainty in response of composite shallow conical shells. <i>Composite Structures</i> , 2015, 131, 594-605.	3.1	47
108	Finite element model updating using the shadow hybrid Monte Carlo technique. <i>Mechanical Systems and Signal Processing</i> , 2015, 52-53, 115-132.	4.4	47

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109	Metamodel-based approach for stochastic free vibration analysis of functionally graded carbon nanotube reinforced plates. <i>Composite Structures</i> , 2016, 152, 183-198.	3.1	47
110	Stochastic dynamic stability analysis of composite curved panels subjected to non-uniform partial edge loading. <i>European Journal of Mechanics, A/Solids</i> , 2018, 67, 108-122.	2.1	47
111	A Response Surface Modelling Approach for Resonance Driven Reliability Based Optimization of Composite Shells. <i>Periodica Polytechnica: Civil Engineering</i> , 2016, 60, 103-111.	0.6	47
112	Modal Analysis of Linear Asymmetric Nonconservative Systems. <i>Journal of Engineering Mechanics - ASCE</i> , 1999, 125, 1372-1379.	1.6	46
113	Frequency domain analysis of nonlocal rods embedded in an elastic medium. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 59, 33-40.	1.3	46
114	Uncertainty Quantification in Natural Frequency of Composite Plates - An Artificial Neural Network Based Approach. <i>Advanced Composites Letters</i> , 2016, 25, 096369351602500.	1.3	46
115	A simplified method for unified buckling and free vibration analysis of pile-supported structures in seismically liquefiable soils. <i>Soil Dynamics and Earthquake Engineering</i> , 2009, 29, 1220-1235.	1.9	45
116	Low frequency vibration of multiwall carbon nanotubes with heterogeneous boundaries. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 085405.	1.3	45
117	Vibrational characteristics of bilayer graphene sheets. <i>Thin Solid Films</i> , 2011, 519, 6026-6032.	0.8	45
118	Thermal uncertainty quantification in frequency responses of laminated composite plates. <i>Composites Part B: Engineering</i> , 2015, 80, 186-197.	5.9	45
119	Polynomial Chaos Expansion and Steady-State Response of a Class of Random Dynamical Systems. <i>Journal of Engineering Mechanics - ASCE</i> , 2015, 141, .	1.6	45
120	A surrogate based multi-fidelity approach for robust design optimization. <i>Applied Mathematical Modelling</i> , 2017, 47, 726-744.	2.2	45
121	Mechanical properties of non-reconstructed defective single-wall carbon nanotubes. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 142002.	1.3	44
122	Iterative Methods for Eigenvalues of Viscoelastic Systems. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2011, 133, .	1.0	44
123	Polynomial chaos expansion in structural dynamics: Accelerating the convergence of the first two statistical moment sequences. <i>Journal of Sound and Vibration</i> , 2015, 356, 144-154.	2.1	44
124	Flexoelectric effect on vibration responses of piezoelectric nanobeams embedded in viscoelastic medium based on nonlocal elasticity theory. <i>Acta Mechanica</i> , 2018, 229, 2379-2392.	1.1	44
125	Matrix Variate Distributions for Probabilistic Structural Dynamics. <i>AIAA Journal</i> , 2007, 45, 1748-1762.	1.5	43
126	Doubly Spectral Stochastic Finite-Element Method for Linear Structural Dynamics. <i>Journal of Aerospace Engineering</i> , 2011, 24, 264-276.	0.8	43

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127	Stochastic natural frequency of composite conical shells. <i>Acta Mechanica</i> , 2015, 226, 2537-2553.	1.1	43
128	Probabilistic Analysis and Design of HCP Nanowires: An Efficient Surrogate Based Molecular Dynamics Simulation Approach. <i>Journal of Materials Science and Technology</i> , 2016, 32, 1345-1351.	5.6	43
129	Analysis of Asymmetric Nonviscously Damped Linear Dynamic Systems. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2003, 70, 885-893.	1.1	42
130	Optimum design of FRP bridge deck: an efficient RS-HDMR based approach. <i>Structural and Multidisciplinary Optimization</i> , 2015, 52, 459-477.	1.7	42
131	Polynomial chaos expansion with random and fuzzy variables. <i>Mechanical Systems and Signal Processing</i> , 2016, 75, 41-56.	4.4	42
132	Experimental case studies for uncertainty quantification in structural dynamics. <i>Probabilistic Engineering Mechanics</i> , 2009, 24, 473-492.	1.3	41
133	Optimal design of variable fiber spacing composites for morphing aircraft skins. <i>Composite Structures</i> , 2012, 94, 1626-1633.	3.1	41
134	A polynomial chaos expansion based molecular dynamics study for probabilistic strength analysis of nano-twinned copper. <i>Materials Research Express</i> , 2016, 3, 036501.	0.8	41
135	Estimation of beam material random field properties via sensitivity-based model updating using experimental frequency response functions. <i>Mechanical Systems and Signal Processing</i> , 2018, 102, 180-197.	4.4	41
136	Transient Dynamics of Stochastically Parametered Beams. <i>Journal of Engineering Mechanics - ASCE</i> , 2000, 126, 1131-1140.	1.6	40
137	Linear system identification using proper orthogonal decomposition. <i>Mechanical Systems and Signal Processing</i> , 2007, 21, 3123-3145.	4.4	40
138	Broadband dynamic elastic moduli of honeycomb lattice materials: A generalized analytical approach. <i>Mechanics of Materials</i> , 2021, 157, 103796.	1.7	40
139	Optimal negative stiffness inertial-amplifier-base-isolators: Exact closed-form expressions. <i>International Journal of Mechanical Sciences</i> , 2022, 218, 107044.	3.6	40
140	Nonlinear filters for chaotic oscillatory systems. <i>Nonlinear Dynamics</i> , 2009, 55, 113-137.	2.7	39
141	A reduced spectral function approach for the stochastic finite element analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 1804-1821.	3.4	39
142	A review on shape memory alloy reinforced polymer composite materials and structures. <i>Smart Materials and Structures</i> , 2020, 29, 073001.	1.8	39
143	Derivative of Eigensolutions of Nonviscously Damped Linear Systems. <i>AIAA Journal</i> , 2002, 40, 2061-2069.	1.5	38
144	Reliability Analysis Using Parabolic Failure Surface Approximation. <i>Journal of Engineering Mechanics - ASCE</i> , 2004, 130, 1407-1427.	1.6	38

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145	Calculation of Eigensolution Derivatives for Nonviscously Damped Systems. <i>AIAA Journal</i> , 2006, 44, 1799-1806.	1.5	38
146	Multiscale hybrid atomistic-FE approach for the nonlinear tensile behaviour of graphene nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 46, 147-153.	3.8	38
147	Dynamics of multiple viscoelastic carbon nanotube based nanocomposites with axial magnetic field. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	38
148	Advances in finite element modelling of graphene and associated nanostructures. <i>Materials Science and Engineering Reports</i> , 2020, 140, 100544.	14.8	38
149	Eigenvalue curve veering in stressed structures: An experimental study. <i>Journal of Sound and Vibration</i> , 2009, 322, 1117-1124.	2.1	37
150	Gaussian process emulators for the stochastic finite element method. <i>International Journal for Numerical Methods in Engineering</i> , 2011, 87, 521-540.	1.5	37
151	Nonlocal elasticity based magnetic field affected vibration response of double single-walled carbon nanotube systems. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	37
152	Multiple solutions and corresponding power output of a nonlinear bistable piezoelectric energy harvester. <i>European Physical Journal B</i> , 2016, 89, 1.	0.6	37
153	Size- and temperature-dependent piezoelectric properties of gallium nitride nanowires. <i>Scripta Materialia</i> , 2013, 68, 627-630.	2.6	36
154	Probing the frequency-dependent elastic moduli of lattice materials. <i>Acta Materialia</i> , 2019, 165, 654-665.	3.8	36
155	Voltage-dependent modulation of elastic moduli in lattice metamaterials: Emergence of a programmable state-transition capability. <i>International Journal of Solids and Structures</i> , 2021, 208-209, 31-48.	1.3	36
156	Joint statistics of natural frequencies of stochastic dynamic systems. <i>Computational Mechanics</i> , 2007, 40, 739-752.	2.2	35
157	Dynamic Response Characteristics of a Nonviscously Damped Oscillator. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2008, 75, .	1.1	35
158	Dynamic behaviors of microtubules in cytosol. <i>Journal of Biomechanics</i> , 2009, 42, 1270-1274.	0.9	35
159	Fuzzy parametric uncertainty analysis of linear dynamical systems: A surrogate modeling approach. <i>Mechanical Systems and Signal Processing</i> , 2012, 32, 5-17.	4.4	35
160	Helicopter aeroelastic analysis with spatially uncertain rotor blade properties. <i>Aerospace Science and Technology</i> , 2012, 16, 29-39.	2.5	35
161	Vibrating nonlocal multi-nanoplate system under inplane magnetic field. <i>European Journal of Mechanics, A/Solids</i> , 2017, 64, 29-45.	2.1	35
162	Theoretical limits for negative elastic moduli in subacoustic lattice materials. <i>Physical Review B</i> , 2019, 99, .	1.1	35

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163	On the Quantification of Eigenvalue Curve Veering: A Veering Index. Journal of Applied Mechanics, Transactions ASME, 2011, 78, .	1.1	34
164	Error Analysis in Trifilar Inertia Measurements. Experimental Mechanics, 2009, 49, 533-540.	1.1	33
165	Vibration spectra of fullerene family. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2166-2170.	0.9	33
166	ENERGY HARVESTING IN PIEZOELASTIC SYSTEMS DRIVEN BY RANDOM EXCITATIONS. International Journal of Structural Stability and Dynamics, 2013, 13, 1340006.	1.5	33
167	Optimal parameters of viscoelastic tuned-mass dampers. Journal of Sound and Vibration, 2019, 445, 17-28.	2.1	33
168	Anisotropy tailoring in geometrically isotropic multi-material lattices. Extreme Mechanics Letters, 2020, 40, 100934.	2.0	33
169	High dimensional model representation for stochastic finite element analysis. Applied Mathematical Modelling, 2010, 34, 3917-3932.	2.2	31
170	The formation of wrinkles in single-layer graphene sheets under nanoindentation. Journal of Physics Condensed Matter, 2010, 22, 145302.	0.7	31
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