

Li Li

List of Publications by Year in descending order

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126
papers

6,102
citations

81839

39
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131
all docs

131
docs citations

131
times ranked

1758
citing authors

#	ARTICLE	IF	CITATIONS
1	Free vibration analysis of nonlocal strain gradient beams made of functionally graded material. International Journal of Engineering Science, 2016, 102, 77-92.	2.7	341
2	Buckling analysis of size-dependent nonlinear beams based on a nonlocal strain gradient theory. International Journal of Engineering Science, 2015, 97, 84-94.	2.7	295
3	Nonlinear bending and free vibration analyses of nonlocal strain gradient beams made of functionally graded material. International Journal of Engineering Science, 2016, 107, 77-97.	2.7	261
4	Bending, buckling and vibration of axially functionally graded beams based on nonlocal strain gradient theory. Composite Structures, 2017, 165, 250-265.	3.1	253
5	Flexural wave propagation in small-scaled functionally graded beams via a nonlocal strain gradient theory. Composite Structures, 2015, 133, 1079-1092.	3.1	226
6	Longitudinal vibration of size-dependent rods via nonlocal strain gradient theory. International Journal of Mechanical Sciences, 2016, 115-116, 135-144.	3.6	212
7	Wave propagation in viscoelastic single-walled carbon nanotubes with surface effect under magnetic field based on nonlocal strain gradient theory. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 75, 118-124.	1.3	212
8	A novel quasi-3D hyperbolic theory for free vibration of FG plates with porosities resting on Winkler/Pasternak/Kerr foundation. Aerospace Science and Technology, 2018, 72, 134-149.	2.5	208
9	Post-buckling analysis of functionally graded nanobeams incorporating nonlocal stress and microstructure-dependent strain gradient effects. International Journal of Mechanical Sciences, 2017, 120, 159-170.	3.6	159
10	Wave propagation in fluid-conveying viscoelastic carbon nanotubes based on nonlocal strain gradient theory. Computational Materials Science, 2016, 112, 282-288.	1.4	155
11	Closed form solution for a nonlocal strain gradient rod in tension. International Journal of Engineering Science, 2017, 119, 16-28.	2.7	152
12	The effect of thickness on the mechanics of nanobeams. International Journal of Engineering Science, 2018, 123, 81-91.	2.7	126
13	Longitudinal and torsional vibrations of size-dependent rods via nonlocal integral elasticity. International Journal of Mechanical Sciences, 2017, 133, 639-650.	3.6	113
14	On longitudinal dynamics of nanorods. International Journal of Engineering Science, 2017, 120, 129-145.	2.7	98
15	Torsional vibration of bi-directional functionally graded nanotubes based on nonlocal elasticity theory. Composite Structures, 2017, 172, 242-250.	3.1	97
16	Twisting statics of functionally graded nanotubes using Eringen's nonlocal integral model. Composite Structures, 2017, 178, 87-96.	3.1	95
17	Size-dependent nonlinear vibration of beam-type porous materials with an initial geometrical curvature. Composite Structures, 2018, 184, 1177-1188.	3.1	94
18	A note on the Hertz contact model with nonlinear damping for pounding simulation. Earthquake Engineering and Structural Dynamics, 2009, 38, 1135-1142.	2.5	89

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19	On guided wave propagation in fully clamped porous functionally graded nanoplates. <i>Acta Astronautica</i> , 2018, 143, 380-390.	1.7	89
20	Contribution of nonlocality to surface elasticity. <i>International Journal of Engineering Science</i> , 2020, 152, 103311.	2.7	77
21	Hygrothermal wave propagation in viscoelastic graphene under in-plane magnetic field based on nonlocal strain gradient theory. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 97, 317-327.	1.3	74
22	Vibration of nonlocal strain gradient beams incorporating Poisson's ratio and thickness effects. <i>Thin-Walled Structures</i> , 2019, 137, 377-391.	2.7	74
23	Influence of homogenization schemes on vibration of functionally graded curved microbeams. <i>Composite Structures</i> , 2019, 216, 67-79.	3.1	66
24	Size-dependent effects on critical flow velocity of fluid-conveying microtubes via nonlocal strain gradient theory. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	1.0	62
25	Nonlinear bending of a two-dimensionally functionally graded beam. <i>Composite Structures</i> , 2018, 184, 1049-1061.	3.1	62
26	On the shear buckling of porous nanoplates using a new size-dependent quasi-3D shear deformation theory. <i>Acta Mechanica</i> , 2018, 229, 4549-4573.	1.1	61
27	Coupling effect of thickness and shear deformation on size-dependent bending of micro/nano-scale porous beams. <i>Applied Mathematical Modelling</i> , 2019, 66, 527-547.	2.2	61
28	Dynamic characteristics of viscoelastic nanoplates under moving load embedded within visco-Pasternak substrate and hygrothermal environment. <i>Materials Research Express</i> , 2017, 4, 085013.	0.8	56
29	Buckling analysis of two-directionally porous beam. <i>Aerospace Science and Technology</i> , 2018, 78, 471-479.	2.5	56
30	On the resonance of functionally graded nanoplates using bi-Helmholtz nonlocal strain gradient theory. <i>International Journal of Engineering Science</i> , 2019, 144, 103143.	2.7	56
31	Wave dispersion of mounted graphene with initial stress. <i>Thin-Walled Structures</i> , 2018, 122, 102-111.	2.7	51
32	Pillared graphene as an ultra-high sensitivity mass sensor. <i>Scientific Reports</i> , 2017, 7, 14012.	1.6	49
33	A parallel way for computing eigenvector sensitivity of asymmetric damped systems with distinct and repeated eigenvalues. <i>Mechanical Systems and Signal Processing</i> , 2012, 30, 61-77.	4.4	48
34	Torsion of a functionally graded material. <i>International Journal of Engineering Science</i> , 2016, 109, 14-28.	2.7	47
35	A continuous analysis method of planar rigid-body mechanical systems with two revolute clearance joints. <i>Multibody System Dynamics</i> , 2017, 40, 347-373.	1.7	45
36	Temperature-dependent flexural wave propagation in nanoplate-type porous heterogenous material subjected to in-plane magnetic field. <i>Journal of Thermal Stresses</i> , 2018, 41, 483-499.	1.1	45

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37	Design sensitivity and Hessian matrix of generalized eigenproblems. <i>Mechanical Systems and Signal Processing</i> , 2014, 43, 272-294.	4.4	44
38	Diamond nanothread based resonators: ultrahigh sensitivity and low dissipation. <i>Nanoscale</i> , 2018, 10, 8058-8065.	2.8	44
39	Wave propagation in viscous-fluid-conveying piezoelectric nanotubes considering surface stress effects and Knudsen number based on nonlocal strain gradient theory. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	44
40	A well-posed Euler-Bernoulli beam model incorporating nonlocality and surface energy effect. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2019, 40, 1561-1588.	1.9	44
41	Propagation of in-plane wave in viscoelastic monolayer graphene via nonlocal strain gradient theory. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	43
42	Thermoelastic damping of graphene nanobeams by considering the size effects of nanostructure and heat conduction. <i>Journal of Thermal Stresses</i> , 2018, 41, 1182-1200.	1.1	43
43	Computation of Eigensolution Derivatives for Nonviscously Damped Systems Using the Algebraic Method. <i>AIAA Journal</i> , 2012, 50, 2282-2284.	1.5	40
44	Damped vibration of a graphene sheet using a higher-order nonlocal strain-gradient Kirchhoff plate model. <i>Comptes Rendus - Mecanique</i> , 2018, 346, 1216-1232.	2.1	40
45	Vibration analysis of carbon nanotubes reinforced isotropic doubly-curved nanoshells using nonlocal elasticity theory based on a new higher order shear deformation theory. <i>Composites Part B: Engineering</i> , 2019, 175, 107170.	5.9	39
46	A fractional nonlocal time-space viscoelasticity theory and its applications in structural dynamics. <i>Applied Mathematical Modelling</i> , 2020, 84, 116-136.	2.2	38
47	Critical flow velocity of fluid-conveying magneto-electro-elastic pipe resting on an elastic foundation. <i>International Journal of Mechanical Sciences</i> , 2016, 119, 273-282.	3.6	37
48	A modified precise integration method for transient dynamic analysis in structural systems with multiple damping models. <i>Mechanical Systems and Signal Processing</i> , 2018, 98, 613-633.	4.4	37
49	A nonlocal surface theory for surface-bulk interactions and its application to mechanics of nanobeams. <i>International Journal of Engineering Science</i> , 2022, 172, 103624.	2.7	35
50	Damping characteristic of Ni-coated carbon nanotube/copper composite. <i>Materials and Design</i> , 2017, 133, 455-463.	3.3	34
51	Experimental Demonstration of Acoustic Valley Hall Topological Insulators with the Robust Selection of C_{3v} -Symmetric Scatterers. <i>Physical Review Applied</i> , 2019, 12, .	1.5	34
52	Effect of friction on the dynamic analysis of slider-crank mechanism with clearance joint. <i>International Journal of Non-Linear Mechanics</i> , 2019, 115, 20-40.	1.4	34
53	Numerical methods for evaluating the sensitivity of element modal strain energy. <i>Finite Elements in Analysis and Design</i> , 2013, 64, 13-23.	1.7	33
54	A study on design sensitivity analysis for general nonlinear eigenproblems. <i>Mechanical Systems and Signal Processing</i> , 2013, 34, 88-105.	4.4	32

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55	Eigensensitivity analysis of damped systems with distinct and repeated eigenvalues. <i>Finite Elements in Analysis and Design</i> , 2013, 72, 21-34.	1.7	32
56	Enhanced interfacial strength of carbon nanotube/copper nanocomposites via Ni-coating: Molecular-dynamics insights. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 88, 259-264.	1.3	32
57	Machine-learning assisted coarse-grained model for epoxies over wide ranges of temperatures and cross-linking degrees. <i>Materials and Design</i> , 2019, 183, 108130.	3.3	32
58	Vibration and Buckling Analyses of Sandwich Plates Containing Functionally Graded Metal Foam Core. <i>Acta Mechanica Solida Sinica</i> , 2022, 35, 1-16.	1.0	32
59	Improved approximate methods for calculating frequency response function matrix and response of MDOF systems with viscoelastic hereditary terms. <i>Journal of Sound and Vibration</i> , 2013, 332, 3945-3956.	2.1	31
60	State-space based time integration method for structural systems involving multiple nonviscous damping models. <i>Computers and Structures</i> , 2016, 171, 31-45.	2.4	31
61	Thermal buckling of embedded sandwich piezoelectric nanoplates with functionally graded core by a nonlocal second-order shear deformation theory. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019, 233, 287-301.	1.1	31
62	Harmonic response calculation of viscoelastic structures using classical normal modes: An iterative method. <i>Computers and Structures</i> , 2014, 133, 39-50.	2.4	30
63	Diamond nanothreads as novel nanofillers for cross-linked epoxy nanocomposites. <i>Composites Science and Technology</i> , 2019, 174, 84-93.	3.8	30
64	A hybrid expansion method for frequency response functions of non-proportionally damped systems. <i>Mechanical Systems and Signal Processing</i> , 2014, 42, 31-41.	4.4	29
65	New insights into interface interactions of CNT-reinforced epoxy nanocomposites. <i>Composites Science and Technology</i> , 2021, 204, 108638.	3.8	29
66	Biomechanical evaluation of adjacent segment degeneration after one- or two-level anterior cervical discectomy and fusion versus cervical disc arthroplasty: A finite element analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 189, 105352.	2.6	28
67	Design sensitivity analysis of dynamic response of nonviscously damped systems. <i>Mechanical Systems and Signal Processing</i> , 2013, 41, 613-638.	4.4	27
68	Wave dispersion of nanobeams incorporating stretching effect. <i>Waves in Random and Complex Media</i> , 0, , 1-21.	1.6	26
69	Eigensensitivity Analysis for Asymmetric Nonviscous Systems. <i>AIAA Journal</i> , 2013, 51, 738-741.	1.5	25
70	State-Space Method for Viscoelastic Systems Involving General Damping Model. <i>AIAA Journal</i> , 2016, 54, 3290-3295.	1.5	25
71	Nonlocal Elasticity Response of Doubly-Curved Nanoshells. <i>Symmetry</i> , 2020, 12, 466.	1.1	24
72	Adjacent segment biomechanical changes after one- or two-level anterior cervical discectomy and fusion using either a zero-profile device or cage plus plate: A finite element analysis. <i>Computers in Biology and Medicine</i> , 2020, 120, 103760.	3.9	24

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73	Dynamics of structural systems with various frequency-dependent damping models. <i>Frontiers of Mechanical Engineering</i> , 2015, 10, 48-63.	2.5	22
74	A new model for wave propagation in functionally graded anisotropic doubly-curved shells. <i>Composite Structures</i> , 2018, 190, 91-111.	3.1	22
75	Torsional statics of two-dimensionally functionally graded microtubes. <i>Mechanics of Advanced Materials and Structures</i> , 2019, 26, 430-442.	1.5	22
76	Hygrothermal wave characteristic of nanobeam-type inhomogeneous materials with porosity under magnetic field. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019, 233, 2149-2169.	1.1	21
77	Eliminating the modal truncation problem encountered in frequency responses of viscoelastic systems. <i>Journal of Sound and Vibration</i> , 2014, 333, 1182-1192.	2.1	20
78	Pillared graphene as excellent reinforcement for polymer-based nanocomposites. <i>Materials and Design</i> , 2018, 147, 11-18.	3.3	20
79	Elastic guided waves in fully-clamped functionally graded carbon nanotube-reinforced composite plates. <i>Materials Research Express</i> , 2019, 6, 0950a9.	0.8	20
80	A modal projection-based reduction method for transient dynamic responses of viscoelastic systems with multiple damping models. <i>Computers and Structures</i> , 2018, 194, 60-73.	2.4	19
81	Cross-section effect on mechanics of nonlocal beams. <i>Archive of Applied Mechanics</i> , 2021, 91, 1541-1556.	1.2	19
82	Interface mechanical properties of graphene reinforced copper nanocomposites. <i>Materials Research Express</i> , 2017, 4, 115020.	0.8	17
83	Valleylike Edge States in Chiral Phononic Crystals with Dirac Degeneracies beyond High-Symmetry Points and Boundaries of Brillouin Zones. <i>Physical Review Applied</i> , 2020, 14, .	1.5	17
84	Three-dimensionally nonlocal tensile nanobars incorporating surface effect: A self-consistent variational and well-posed model. <i>Science China Technological Sciences</i> , 2021, 64, 1-14.	2.0	17
85	A compatible multiscale model for nanocomposites incorporating interface effect. <i>International Journal of Engineering Science</i> , 2022, 174, 103657.	2.7	17
86	Nonlocal vibration of functionally graded nanoplates using a layerwise theory. <i>Mathematics and Mechanics of Solids</i> , 2022, 27, 2634-2661.	1.5	16
87	Direct way of computing the variability of modal assurance criteria. <i>Mechanics Research Communications</i> , 2014, 55, 53-58.	1.0	15
88	A free interface component mode synthesis method for viscoelastically damped systems. <i>Journal of Sound and Vibration</i> , 2016, 365, 199-215.	2.1	15
89	Importance of Interface in the Coarse-Grained Model of CNT /Epoxy Nanocomposites. <i>Nanomaterials</i> , 2019, 9, 1479.	1.9	15
90	Enlarging quality factor in microbeam resonators by topology optimization. <i>Journal of Thermal Stresses</i> , 2019, 42, 341-360.	1.1	15

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91	Wave dispersion in nonlocal anisotropic macro/nanoplates made of functionally graded materials. <i>Waves in Random and Complex Media</i> , 2021, 31, 1945-1989.	1.6	15
92	A multilayer coarse-grained molecular dynamics model for mechanical analysis of mesoscale graphene structures. <i>Carbon</i> , 2021, 178, 528-539.	5.4	15
93	Instability of functionally graded micro-beams via micro-structure-dependent beam theory. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2018, 39, 923-952.	1.9	14
94	Design sensitivity analysis for transient response of non-viscously damped systems based on direct differentiate method. <i>Mechanical Systems and Signal Processing</i> , 2019, 121, 322-342.	4.4	14
95	Highly tailorable electromechanical properties of auxetic piezoelectric ceramics with ultra-low porosity. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6330-6347.	1.9	14
96	Sensitivity analysis of modal assurance criteria of damped systems. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 632-644.	1.5	13
97	A critical role of CNT real volume fraction on nanocomposite modulus. <i>Carbon</i> , 2022, 189, 395-403.	5.4	13
98	Generalized mode acceleration and modal truncation augmentation methods for the harmonic response analysis of nonviscously damped systems. <i>Mechanical Systems and Signal Processing</i> , 2015, 52-53, 46-59.	4.4	12
99	A comparative study of design sensitivity analysis based on adjoint variable method for transient response of non-viscously damped systems. <i>Mechanical Systems and Signal Processing</i> , 2018, 110, 390-411.	4.4	11
100	Size-dependent nonlinear vibration analysis of Euler-Bernoulli nanobeams acted upon by moving loads with variable speeds. <i>Materials Research Express</i> , 2018, 5, 015058.	0.8	11
101	Strain gradient elasticity theory of polymer networks. <i>Acta Mechanica</i> , 2022, 233, 3213-3231.	1.1	11
102	Efficient and accurate calculation of sensitivity of damped eigensystems. <i>Computers and Structures</i> , 2015, 146, 163-175.	2.4	9
103	Accurate method for harmonic responses of non-classically damped systems in the middle frequency range. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 426-441.	1.5	9
104	Accurate modal superposition method for harmonic frequency response sensitivity of non-classically damped systems with lower-higher-modal truncation. <i>Mechanical Systems and Signal Processing</i> , 2017, 85, 204-217.	4.4	9
105	Broadening band gaps of shear horizontal waves of metamaterials via graded hierarchical architectures. <i>Composite Structures</i> , 2021, 271, 114118.	3.1	9
106	A thermodynamic design methodology for achieving ultra-high frequency quality product of microresonators. <i>Thin-Walled Structures</i> , 2021, 166, 108104.	2.7	9
107	A nonlocality-based homogenization method for dynamics of metamaterials. <i>Composite Structures</i> , 2022, 295, 115716.	3.1	9
108	Inclusion of Higher Modes in the Eigensensitivity of Nonviscously Damped Systems. <i>AIAA Journal</i> , 2014, 52, 1316-1322.	1.5	8

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109	Direct method for second-order sensitivity analysis of modal assurance criterion. Mechanical Systems and Signal Processing, 2016, 76-77, 441-454.	4.4	8
110	Effects of thickness and orientation on electromechanical properties of gallium nitride nanofilm: A multiscale insight. Computational Materials Science, 2022, 203, 111122.	1.4	8
111	Modeling and optimization of dynamic performances of large-scale lead screws whirl milling with multi-point variable constraints. Journal of Materials Processing Technology, 2020, 276, 116392.	3.1	7
112	Percutaneous posterior full-endoscopic cervical foraminotomy and discectomy: a finite element analysis and radiological assessment. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 805-814.	0.9	7
113	Dependency of critical damping on various parameters of tapered bidirectional graded circular plates rested on Hetenyi medium. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 2157-2179.	1.1	7
114	Electromechanical properties of ultra-low porous auxetic piezocomposite: from the perspective of Poisson's ratio. Journal of the American Ceramic Society, 2021, 104, 2628-2645.	1.9	7
115	High intrinsic dissipation of graphyne nanotubes. Europhysics Letters, 2018, 122, 46001.	0.7	6
116	Contacts transition induced stiffening mechanism in CNT-network/epoxy composites. Carbon, 2021, 178, 767-774.	5.4	6
117	Acoustic source localization in three-dimensional space based on acoustic valley-Hall topological insulators. International Journal of Mechanical Sciences, 2022, 217, 107048.	3.6	6
118	The design of strongly bonded nanoarchitected carbon materials for high specific strength and modulus. Carbon, 2022, 195, 387-394.	5.4	5
119	Direct method for second-order sensitivity analysis of modal strain energy. Journal of Sound and Vibration, 2019, 462, 114926.	2.1	4
120	Abnormal enhancement to the quality factors of carbon nanotube via defects engineering. Nano Materials Science, 2022, 4, 259-265.	3.9	4
121	Modal Modification of Damped Asymmetric Systems without Using the Left Eigenvectors. Applied Mechanics and Materials, 2014, 490-491, 331-335.	0.2	2
122	Active control for ratios of strains in functionally graded piezoelectric composites. Composite Structures, 2020, 236, 111861.	3.1	2
123	A new representation for viscoelastic behavior of materials in two- and three-dimensional problems. International Journal of Applied Mechanics, 0, , .	1.3	2
124	A Three-Dimensional Transition Interface Model for Bolt Joint. Machines, 2022, 10, 511.	1.2	2
125	Demonstration of Suppressed Backscattering in Acoustic Valley Hall Topological Insulator. IOP Conference Series: Earth and Environmental Science, 2020, 571, 012131.	0.2	0
126	DIRECT TIME-DOMAIN INTEGRATION APPROACH FOR VISCOELASTIC SYSTEMS INVOLVING VARIOUS DAMPING MODELS., 2016, , .		0