Li Li

List of Publications by Year in descending order

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		81743	82410
126	6,102	39	72
papers	citations	h-index	g-index

131	131	131	1758
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Abnormal enhancement to the quality factors of carbon nanotube via defects engineering. Nano Materials Science, 2022, 4, 259-265.	3.9	4
2	Effects of thickness and orientation on electromechanical properties of gallium nitride nanofilm: A multiscale insight. Computational Materials Science, 2022, 203, 111122.	1.4	8
3	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
4	A critical role of CNT real volume fraction on nanocomposite modulus. Carbon, 2022, 189, 395-403.	5.4	13
5	Vibration and Buckling Analyses of Sandwich Plates Containing Functionally Graded Metal Foam Core. Acta Mechanica Solida Sinica, 2022, 35, 1-16.	1.0	32
6	A nonlocal surface theory for surfaceâ€“bulk interactions and its application to mechanics of nanobeams. International Journal of Engineering Science, 2022, 172, 103624.	2.7	35
7	Nonlocal vibration of functionally graded nanoplates using a layerwise theory. Mathematics and Mechanics of Solids, 2022, 27, 2634-2661.	1.5	16
8	A compatible multiscale model for nanocomposites incorporating interface effect. International Journal of Engineering Science, 2022, 174, 103657.	2.7	17
9	The design of strongly bonded nanoarchitected carbon materials for high specific strength and modulus. Carbon, 2022, 195, 387-394.	5.4	5
10	A nonlocality-based homogenization method for dynamics of metamaterials. Composite Structures, 2022, 295, 115716.	3.1	9
11	A Three-Dimensional Transition Interface Model for Bolt Joint. Machines, 2022, 10, 511.	1.2	2
12	Strain gradient elasticity theory of polymer networks. Acta Mechanica, 2022, 233, 3213-3231.	1.1	11
13	Wave dispersion in nonlocal anisotropic macro/nanoplates made of functionally graded materials. Waves in Random and Complex Media, 2021, 31, 1945-1989.	1.6	15
14	Cross-section effect on mechanics of nonlocal beams. Archive of Applied Mechanics, 2021, 91, 1541-1556.	1.2	19
15	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
16	Electromechanical properties of ultraâ€low porous auxetic piezocomposite: from the perspective of Poissonâ€™s ratio. Journal of the American Ceramic Society, 2021, 104, 2628-2645.	1.9	7
17	New insights into interface interactions of CNT-reinforced epoxy nanocomposites. Composites Science and Technology, 2021, 204, 108638.	3.8	29
18	Contacts transition induced stiffening mechanism in CNT-network/epoxy composites. Carbon, 2021, 178, 767-774.	5.4	6

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19	A multilayer coarse-grained molecular dynamics model for mechanical analysis of mesoscale graphene structures. Carbon, 2021, 178, 528-539.	5.4	15
20	Broadening band gaps of shear horizontal waves of metamaterials via graded hierarchical architectures. Composite Structures, 2021, 271, 114118.	3.1	9
21	A thermodynamic design methodology for achieving ultra-high frequencyâ€“quality product of microresonators. Thin-Walled Structures, 2021, 166, 108104.	2.7	9
22	Three-dimensionally nonlocal tensile nanobars incorporating surface effect: A self-consistent variational and well-posed model. Science China Technological Sciences, 2021, 64, 1-14.	2.0	17
23	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
24	Active control for ratios of strains in functionally graded piezoelectric composites. Composite Structures, 2020, 236, 111861.	3.1	2
25	Highly tailorable electromechanical properties of auxetic piezoelectric ceramics with ultraâ€low porosity. Journal of the American Ceramic Society, 2020, 103, 6330-6347.	1.9	14
26	Valleylike Edge States in Chiral Phononic Crystals with Dirac Degeneracies beyond High-Symmetry Points and Boundaries of Brillouin Zones. Physical Review Applied, 2020, 14, .	1.5	17
27	Nonlocal Elasticity Response of Doubly-Curved Nanoshells. Symmetry, 2020, 12, 466.	1.1	24
28	Demonstration of Suppressed Backscattering in Acoustic Valley Hall Topological Insulator. IOP Conference Series: Earth and Environmental Science, 2020, 571, 012131.	0.2	0
29	Contribution of nonlocality to surface elasticity. International Journal of Engineering Science, 2020, 152, 103311.	2.7	77
30	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
31	Biomechanical evaluation of adjacent segment degeneration after one- or two-level anterior cervical discectomy and fusion versus cervical disc arthroplasty: A finite element analysis. Computer Methods and Programs in Biomedicine, 2020, 189, 105352.	2.6	28
32	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. Computers in Biology and Medicine, 2020, 120, 103760.	3.9	24
33	A fractional nonlocal time-space viscoelasticity theory and its applications in structural dynamics. Applied Mathematical Modelling, 2020, 84, 116-136.	2.2	38
34	Hygrothermal wave characteristic of nanobeam-type inhomogeneous materials with porosity under magnetic field. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 2149-2169.	1.1	21
35	Experimental Demonstration of Acoustic Valley Hall Topological Insulators with the Robust Selection of C _{3v} -Symmetric Scatterers. Physical Review Applied, 2019, 12, .	1.5	34
36	Machine-learning assisted coarse-grained model for epoxies over wide ranges of temperatures and cross-linking degrees. Materials and Design, 2019, 183, 108130.	3.3	32

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37	Vibration analysis of carbon nanotubes reinforced isotropic doubly-curved nanoshells using nonlocal elasticity theory based on a new higher order shear deformation theory. Composites Part B: Engineering, 2019, 175, 107170.	5.9	39
38	Elastic guided waves in fully-clamped functionally graded carbon nanotube-reinforced composite plates. Materials Research Express, 2019, 6, 0950a9.	0.8	20
39	Importance of Interface in the Coarse-Grained Model of CNT /Epoxy Nanocomposites. Nanomaterials, 2019, 9, 1479.	1.9	15
40	A well-posed Euler-Bernoulli beam model incorporating nonlocality and surface energy effect. Applied Mathematics and Mechanics (English Edition), 2019, 40, 1561-1588.	1.9	44
41	On the resonance of functionally graded nanoplates using bi-Helmholtz nonlocal strain gradient theory. International Journal of Engineering Science, 2019, 144, 103143.	2.7	56
42	Direct method for second-order sensitivity analysis of modal strain energy. Journal of Sound and Vibration, 2019, 462, 114926.	2.1	4
43	Vibration of nonlocal strain gradient beams incorporating Poisson's ratio and thickness effects. Thin-Walled Structures, 2019, 137, 377-391.	2.7	74
44	Effect of friction on the dynamic analysis of slider-crank mechanism with clearance joint. International Journal of Non-Linear Mechanics, 2019, 115, 20-40.	1.4	34
45	Influence of homogenization schemes on vibration of functionally graded curved microbeams. Composite Structures, 2019, 216, 67-79.	3.1	66
46	Diamond nanothreads as novel nanofillers for cross-linked epoxy nanocomposites. Composites Science and Technology, 2019, 174, 84-93.	3.8	30
47	Enlarging quality factor in microbeam resonators by topology optimization. Journal of Thermal Stresses, 2019, 42, 341-360.	1.1	15
48	Design sensitivity analysis for transient response of non-viscously damped systems based on direct differentiate method. Mechanical Systems and Signal Processing, 2019, 121, 322-342.	4.4	14
49	Coupling effect of thickness and shear deformation on size-dependent bending of micro/nano-scale porous beams. Applied Mathematical Modelling, 2019, 66, 527-547.	2.2	61
50	Torsional statics of two-dimensionally functionally graded microtubes. Mechanics of Advanced Materials and Structures, 2019, 26, 430-442.	1.5	22
51	Thermal buckling of embedded sandwich piezoelectric nanoplates with functionally graded core by a nonlocal second-order shear deformation theory. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 287-301.	1.1	31
52	Instability of functionally graded micro-beams via micro-structure-dependent beam theory. Applied Mathematics and Mechanics (English Edition), 2018, 39, 923-952.	1.9	14
53	A comparative study of design sensitivity analysis based on adjoint variable method for transient response of non-viscously damped systems. Mechanical Systems and Signal Processing, 2018, 110, 390-411.	4.4	11
54	A new model for wave propagation in functionally graded anisotropic doubly-curved shells. Composite Structures, 2018, 190, 91-111.	3.1	22

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55	The effect of thickness on the mechanics of nanobeams. International Journal of Engineering Science, 2018, 123, 81-91.	2.7	126
56	Size-dependent nonlinear vibration analysis of Eulerâ€“Bernoulli nanobeams acted upon by moving loads with variable speeds. Materials Research Express, 2018, 5, 015058.	0.8	11
57	Diamond nanothread based resonators: ultrahigh sensitivity and low dissipation. Nanoscale, 2018, 10, 8058-8065.	2.8	44
58	Pillared graphene as excellent reinforcement for polymer-based nanocomposites. Materials and Design, 2018, 147, 11-18.	3.3	20
59	A modified precise integration method for transient dynamic analysis in structural systems with multiple damping models. Mechanical Systems and Signal Processing, 2018, 98, 613-633.	4.4	37
60	Nonlinear bending of a two-dimensionally functionally graded beam. Composite Structures, 2018, 184, 1049-1061.	3.1	62
61	Size-dependent nonlinear vibration of beam-type porous materials with an initial geometrical curvature. Composite Structures, 2018, 184, 1177-1188.	3.1	94
62	A modal projection-based reduction method for transient dynamic responses of viscoelastic systems with multiple damping models. Computers and Structures, 2018, 194, 60-73.	2.4	19
63	On guided wave propagation in fully clamped porous functionally graded nanoplates. Acta Astronautica, 2018, 143, 380-390.	1.7	89
64	Hygrothermal wave propagation in viscoelastic graphene under in-plane magnetic field based on nonlocal strain gradient theory. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 97, 317-327.	1.3	74
65	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
66	Temperature-dependent flexural wave propagation in nanoplate-type porous heterogenous material subjected to in-plane magnetic field. Journal of Thermal Stresses, 2018, 41, 483-499.	1.1	45
67	Wave dispersion of mounted graphene with initial stress. Thin-Walled Structures, 2018, 122, 102-111.	2.7	51
68	On the shear buckling of porous nanoplates using a new size-dependent quasi-3D shear deformation theory. Acta Mechanica, 2018, 229, 4549-4573.	1.1	61
69	Damped vibration of a graphene sheet using a higher-order nonlocal strain-gradient Kirchhoff plate model. Comptes Rendus - Mecanique, 2018, 346, 1216-1232.	2.1	40
70	High intrinsic dissipation of graphyne nanotubes. Europhysics Letters, 2018, 122, 46001.	0.7	6
71	Thermoelastic damping of graphene nanobeams by considering the size effects of nanostructure and heat conduction. Journal of Thermal Stresses, 2018, 41, 1182-1200.	1.1	43
72	Wave propagation in viscous-fluid-conveying piezoelectric nanotubes considering surface stress effects and Knudsen number based on nonlocal strain gradient theory. European Physical Journal Plus, 2018, 133, 1.	1.2	44

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73	Buckling analysis of two-directionally porous beam. Aerospace Science and Technology, 2018, 78, 471-479.	2.5	56
74	Sensitivity analysis of modal assurance criteria of damped systems. JVC/Journal of Vibration and Control, 2017, 23, 632-644.	1.5	13
75	Enhanced interfacial strength of carbon nanotube/copper nanocomposites via Ni-coating: Molecular-dynamics insights. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 88, 259-264.	1.3	32
76	A continuous analysis method of planar rigid-body mechanical systems with two revolute clearance joints. Multibody System Dynamics, 2017, 40, 347-373.	1.7	45
77	Bending, buckling and vibration of axially functionally graded beams based on nonlocal strain gradient theory. Composite Structures, 2017, 165, 250-265.	3.1	253
78	Propagation of in-plane wave in viscoelastic monolayer graphene via nonlocal strain gradient theory. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	43
79	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
80	Closed form solution for a nonlocal strain gradient rod in tension. International Journal of Engineering Science, 2017, 119, 16-28.	2.7	152
81	Torsional vibration of bi-directional functionally graded nanotubes based on nonlocal elasticity theory. Composite Structures, 2017, 172, 242-250.	3.1	97
82	Pillared graphene as an ultra-high sensitivity mass sensor. Scientific Reports, 2017, 7, 14012.	1.6	49
83	On longitudinal dynamics of nanorods. International Journal of Engineering Science, 2017, 120, 129-145.	2.7	98
84	Longitudinal and torsional vibrations of size-dependent rods via nonlocal integral elasticity. International Journal of Mechanical Sciences, 2017, 133, 639-650.	3.6	113
85	Damping characteristic of Ni-coated carbon nanotube/copper composite. Materials and Design, 2017, 133, 455-463.	3.3	34
86	Interface mechanical properties of graphene reinforced copper nanocomposites. Materials Research Express, 2017, 4, 115020.	0.8	17
87	Dynamic characteristics of viscoelastic nanoplates under moving load embedded within visco-Pasternak substrate and hygrothermal environment. Materials Research Express, 2017, 4, 085013.	0.8	56
88	Twisting statics of functionally graded nanotubes using Eringenâ€™s nonlocal integral model. Composite Structures, 2017, 178, 87-96.	3.1	95
89	Accurate modal superposition method for harmonic frequency response sensitivity of non-classically damped systems with lower-higher-modal truncation. Mechanical Systems and Signal Processing, 2017, 85, 204-217.	4.4	9
90	Accurate method for harmonic responses of non-classically damped systems in the middle frequency range. JVC/Journal of Vibration and Control, 2016, 22, 426-441.	1.5	9

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91	State-space based time integration method for structural systems involving multiple nonviscous damping models. Computers and Structures, 2016, 171, 31-45.	2.4	31
92	Size-dependent effects on critical flow velocity of fluid-conveying microtubes via nonlocal strain gradient theory. Microfluidics and Nanofluidics, 2016, 20, 1.	1.0	62
93	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
94	Torsion of a functionally graded material. International Journal of Engineering Science, 2016, 109, 14-28.	2.7	47
95	State-Space Method for Viscoelastic Systems Involving General Damping Model. AIAA Journal, 2016, 54, 3290-3295.	1.5	25
96	Critical flow velocity of fluid-conveying magneto-electro-elastic pipe resting on an elastic foundation. International Journal of Mechanical Sciences, 2016, 119, 273-282.	3.6	37
97	Longitudinal vibration of size-dependent rods via nonlocal strain gradient theory. International Journal of Mechanical Sciences, 2016, 115-116, 135-144.	3.6	212
98	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
99	Direct method for second-order sensitivity analysis of modal assurance criterion. Mechanical Systems and Signal Processing, 2016, 76-77, 441-454.	4.4	8
100	A free interface component mode synthesis method for viscoelastically damped systems. Journal of Sound and Vibration, 2016, 365, 199-215.	2.1	15
101	Wave propagation in fluid-conveying viscoelastic carbon nanotubes based on nonlocal strain gradient theory. Computational Materials Science, 2016, 112, 282-288.	1.4	155
102	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
103	DIRECT TIME-DOMAIN INTEGRATION APPROACH FOR VISCOELASTIC SYSTEMS INVOLVING VARIOUS DAMPING MODELS. , 2016, , .		0
104	Dynamics of structural systems with various frequency-dependent damping models. Frontiers of Mechanical Engineering, 2015, 10, 48-63.	2.5	22
105	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
106	Flexural wave propagation in small-scaled functionally graded beams via a nonlocal strain gradient theory. Composite Structures, 2015, 133, 1079-1092.	3.1	226
107	Efficient and accurate calculation of sensitivity of damped eigensystems. Computers and Structures, 2015, 146, 163-175.	2.4	9
108	Generalized mode acceleration and modal truncation augmentation methods for the harmonic response analysis of nonviscously damped systems. Mechanical Systems and Signal Processing, 2015, 52-53, 46-59.	4.4	12

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109	Design sensitivity and Hessian matrix of generalized eigenproblems. Mechanical Systems and Signal Processing, 2014, 43, 272-294.	4.4	44
110	Modal Modification of Damped Asymmetric Systems without Using the Left Eigenvectors. Applied Mechanics and Materials, 2014, 490-491, 331-335.	0.2	2
111	Inclusion of Higher Modes in the Eigensensitivity of Nonviscously Damped Systems. AIAA Journal, 2014, 52, 1316-1322.	1.5	8
112	Harmonic response calculation of viscoelastic structures using classical normal modes: An iterative method. Computers and Structures, 2014, 133, 39-50.	2.4	30
113	A hybrid expansion method for frequency response functions of non-proportionally damped systems. Mechanical Systems and Signal Processing, 2014, 42, 31-41.	4.4	29
114	Direct way of computing the variability of modal assurance criteria. Mechanics Research Communications, 2014, 55, 53-58.	1.0	15
115	Eliminating the modal truncation problem encountered in frequency responses of viscoelastic systems. Journal of Sound and Vibration, 2014, 333, 1182-1192.	2.1	20
116	Numerical methods for evaluating the sensitivity of element modal strain energy. Finite Elements in Analysis and Design, 2013, 64, 13-23.	1.7	33
117	A study on design sensitivity analysis for general nonlinear eigenproblems. Mechanical Systems and Signal Processing, 2013, 34, 88-105.	4.4	32
118	Design sensitivity analysis of dynamic response of nonviscously damped systems. Mechanical Systems and Signal Processing, 2013, 41, 613-638.	4.4	27
119	Eigensensitivity Analysis for Asymmetric Nonviscous Systems. AIAA Journal, 2013, 51, 738-741.	1.5	25
120	Improved approximate methods for calculating frequency response function matrix and response of MDOF systems with viscoelastic hereditary terms. Journal of Sound and Vibration, 2013, 332, 3945-3956.	2.1	31
121	Eigensensitivity analysis of damped systems with distinct and repeated eigenvalues. Finite Elements in Analysis and Design, 2013, 72, 21-34.	1.7	32
122	Computation of Eigensolution Derivatives for Nonviscously Damped Systems Using the Algebraic Method. AIAA Journal, 2012, 50, 2282-2284.	1.5	40
123	A parallel way for computing eigenvector sensitivity of asymmetric damped systems with distinct and repeated eigenvalues. Mechanical Systems and Signal Processing, 2012, 30, 61-77.	4.4	48
124	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
125	Wave dispersion of nanobeams incorporating stretching effect. Waves in Random and Complex Media, 0, , 1-21.	1.6	26
126	A new representation for viscoelastic behavior of materials in two- and three-dimensional problems. International Journal of Applied Mechanics, 0, , .	1.3	2