

Srinivasan Gopalakrishnan

List of Publications by Year in descending order

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225
papers

6,860
citations

66234

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h-index

74018

75
g-index

240
all docs

240
docs citations

240
times ranked

3541
citing authors

#	ARTICLE	IF	CITATIONS
1	Guided wave based structural health monitoring: A review. <i>Smart Materials and Structures</i> , 2016, 25, 053001.	1.8	662
2	A new beam finite element for the analysis of functionally graded materials. <i>International Journal of Mechanical Sciences</i> , 2003, 45, 519-539.	3.6	490
3	Artificial Bee Colony (ABC) for multi-objective design optimization of composite structures. <i>Applied Soft Computing Journal</i> , 2011, 11, 489-499.	4.1	260
4	Quantum behaved Particle Swarm Optimization (QPSO) for multi-objective design optimization of composite structures. <i>Expert Systems With Applications</i> , 2009, 36, 11312-11322.	4.4	164
5	A spectrally formulated finite element for wave propagation analysis in functionally graded beams. <i>International Journal of Solids and Structures</i> , 2003, 40, 2421-2448.	1.3	157
6	Wave propagation in single-walled carbon nanotube under longitudinal magnetic field using nonlocal Euler-Bernoulli beam theory. <i>Applied Mathematical Modelling</i> , 2012, 36, 4529-4538.	2.2	147
7	A spectral finite element model for analysis of axial-flexural shear coupled wave propagation in laminated composite beams. <i>Composite Structures</i> , 2003, 59, 67-88.	3.1	146
8	Finite element analysis of free vibration and wave propagation in asymmetric composite beams with structural discontinuities. <i>Composite Structures</i> , 2002, 55, 23-36.	3.1	114
9	A matrix methodology for spectral analysis of wave propagation in multiple connected Timoshenko beams. <i>Journal of Sound and Vibration</i> , 1992, 158, 11-24.	2.1	108
10	Nonlocal scale effects on wave propagation in multi-walled carbon nanotubes. <i>Computational Materials Science</i> , 2009, 47, 526-538.	1.4	107
11	Review on the use of piezoelectric materials for active vibration, noise, and flow control. <i>Smart Materials and Structures</i> , 2020, 29, 053001.	1.8	107
12	Time reversal technique for health monitoring of metallic structure using Lamb waves. <i>Ultrasonics</i> , 2009, 49, 696-705.	2.1	100
13	Vector evaluated particle swarm optimization (VEPSO) for multi-objective design optimization of composite structures. <i>Computers and Structures</i> , 2008, 86, 1-14.	2.4	94
14	Prediction of nonlocal scaling parameter for armchair and zigzag single-walled carbon nanotubes based on molecular structural mechanics, nonlocal elasticity and wave propagation. <i>International Journal of Engineering Science</i> , 2011, 49, 509-522.	2.7	88
15	Ultrasonic guided wave based structural damage detection and localization using model assisted convolutional and recurrent neural networks. <i>Expert Systems With Applications</i> , 2021, 167, 114189.	4.4	88
16	A refined higher order finite element for asymmetric composite beams. <i>Composite Structures</i> , 2005, 67, 27-35.	3.1	87
17	Spectrally formulated wavelet finite element for wave propagation and impact force identification in connected 1-D waveguides. <i>International Journal of Solids and Structures</i> , 2005, 42, 4695-4721.	1.3	86
18	Free vibration and wave propagation analysis of uniform and tapered rotating beams using spectrally formulated finite elements. <i>International Journal of Solids and Structures</i> , 2007, 44, 5875-5893.	1.3	86

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19	Rapid localization of damage using a circular sensor array and Lamb wave based triangulation. <i>Mechanical Systems and Signal Processing</i> , 2010, 24, 2929-2946.	4.4	84
20	Design optimization of composites using genetic algorithms and failure mechanism based failure criterion. <i>Composite Structures</i> , 2008, 83, 354-367.	3.1	79
21	Nonlocal scale effects on ultrasonic wave characteristics of nanorods. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 1601-1604.	1.3	78
22	Scale effects on buckling analysis of orthotropic nanoplates based on nonlocal two-variable refined plate theory. <i>Acta Mechanica</i> , 2012, 223, 395-413.	1.1	75
23	SPECTRAL-ELEMENT-BASED SOLUTIONS FOR WAVE PROPAGATION ANALYSIS OF MULTIPLY CONNECTED UNSYMMETRIC LAMINATED COMPOSITE BEAMS. <i>Journal of Sound and Vibration</i> , 2000, 237, 819-836.	2.1	73
24	Nonlocal wave propagation in rotating nanotube. <i>Results in Physics</i> , 2011, 1, 17-25.	2.0	69
25	Lamb wave interaction with composite delamination. <i>Composite Structures</i> , 2018, 206, 484-498.	3.1	69
26	Ultrasonic wave characteristics of nanorods via nonlocal strain gradient models. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	67
27	Critical buckling temperature of single-walled carbon nanotubes embedded in a one-parameter elastic medium based on nonlocal continuum mechanics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1185-1191.	1.3	67
28	An accelerometer balance system for measurement of aerodynamic force coefficients over blunt bodies in a hypersonic shock tunnel. <i>Measurement Science and Technology</i> , 2003, 14, 260-272.	1.4	64
29	Wave Propagation In Connected Waveguides Of Varying Cross-section. <i>Journal of Sound and Vibration</i> , 1994, 175, 347-363.	2.1	63
30	Wave Propagation in Nanostructures. <i>Nanoscience and Technology</i> , 2013, , .	1.5	62
31	Computational Techniques for Structural Health Monitoring. <i>Springer Series in Reliability Engineering</i> , 2011, , .	0.3	62
32	Wave propagation analysis in anisotropic and inhomogeneous uncracked and cracked structures using pseudospectral finite element method. <i>International Journal of Solids and Structures</i> , 2006, 43, 4997-5031.	1.3	61
33	Terahertz wave characteristics of a single-walled carbon nanotube containing a fluid flow using the nonlocal Timoshenko beam model. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 1706-1712.	1.3	60
34	Combined two-level damage identification strategy using ultrasonic guided waves and physical knowledge assisted machine learning. <i>Ultrasonics</i> , 2021, 115, 106451.	2.1	60
35	Spectral super-elements for wave propagation in structures with local non-uniformities. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1995, 121, 77-90.	3.4	54
36	A spectral finite element with embedded delamination for modeling of wave scattering in composite beams. <i>Composites Science and Technology</i> , 2003, 63, 2187-2200.	3.8	54

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37	Artificial immune system for multi-objective design optimization of composite structures. <i>Engineering Applications of Artificial Intelligence</i> , 2008, 21, 1416-1429.	4.3	53
38	A Spectral Finite Element Model for Wave Propagation Analysis in Laminated Composite Plate. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2006, 128, 477-488.	1.0	51
39	Identification of delamination in composite beams using spectral estimation and a genetic algorithm. <i>Smart Materials and Structures</i> , 2002, 11, 899-908.	1.8	50
40	Wave propagation in inhomogeneous layered media: solution of forward and inverse problems. <i>Acta Mechanica</i> , 2004, 169, 153-185.	1.1	50
41	A new super convergent thin walled composite beam element for analysis of box beam structures. <i>International Journal of Solids and Structures</i> , 2004, 41, 1491-1518.	1.3	50
42	Axial wave propagation in coupled nanorod system with nonlocal small scale effects. <i>Composites Part B: Engineering</i> , 2011, 42, 2013-2023.	5.9	50
43	Coupled analysis of composite laminate with embedded magnetostrictive patches. <i>Smart Materials and Structures</i> , 2005, 14, 1462-1473.	1.8	46
44	Thermal vibration analysis of orthotropic nanoplates based on nonlocal continuum mechanics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1950-1962.	1.3	44
45	Temperature effects on wave propagation in nanoplates. <i>Composites Part B: Engineering</i> , 2012, 43, 1275-1281.	5.9	43
46	Design and analysis of a flat accelerometer-based force balance system for shock tunnel testing. <i>Measurement: Journal of the International Measurement Confederation</i> , 2007, 40, 93-106.	2.5	42
47	A spectrally formulated finite element for wave propagation analysis in layered composite media. <i>International Journal of Solids and Structures</i> , 2004, 41, 5155-5183.	1.3	41
48	Wavelet spectral finite element for wave propagation in shear deformable laminated composite plates. <i>Composite Structures</i> , 2014, 108, 341-353.	3.1	40
49	A spectrally formulated plate element for wave propagation analysis in anisotropic material. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2005, 194, 4425-4446.	3.4	39
50	Extraction of wave characteristics from wavelet-based spectral finite element formulation. <i>Mechanical Systems and Signal Processing</i> , 2006, 20, 2046-2079.	4.4	38
51	Guided wave based detection of damage in honeycomb core sandwich structures. <i>NDT and E International</i> , 2012, 49, 27-33.	1.7	38
52	A spectral finite element for wave propagation and structural diagnostic analysis of composite beam with transverse crack. <i>Finite Elements in Analysis and Design</i> , 2004, 40, 1729-1751.	1.7	37
53	On the sensitivity of elastic waves due to structural damages: Time-frequency based indexing method. <i>Journal of Sound and Vibration</i> , 2009, 320, 915-941.	2.1	37
54	Study of terahertz wave propagation properties in nanoplates with surface and small-scale effects. <i>International Journal of Mechanical Sciences</i> , 2012, 64, 221-231.	3.6	37

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55	A deep rod finite element for structural dynamics and wave propagation problems. International Journal for Numerical Methods in Engineering, 2000, 48, 731-744.	1.5	36
56	Dynamics of rotating composite beams: A comparative study between CNT reinforced polymer composite beams and laminated composite beams using spectral finite elements. International Journal of Mechanical Sciences, 2012, 64, 110-126.	3.6	36
57	Spectral finite element based on an efficient layerwise theory for wave propagation analysis of composite and sandwich beams. Journal of Sound and Vibration, 2014, 333, 3120-3137.	2.1	35
58	Investigation of the effect of nonlocal scale on ultrasonic wave dispersion characteristics of a monolayer graphene. Computational Materials Science, 2010, 49, 734-742.	1.4	34
59	Wave propagation analysis in laminated composite plates with transverse cracks using the wavelet spectral finite element method. Finite Elements in Analysis and Design, 2014, 89, 19-32.	1.7	34
60	Wave Propagation In Multiply Connected Deep Waveguides. Journal of Sound and Vibration, 1994, 174, 521-538.	2.1	33
61	An iterative system equivalent reduction expansion process for extraction of high frequency response from reduced order finite element model. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 1821-1840.	3.4	32
62	Spectral element based model for wave propagation analysis in multi-wall carbon nanotubes. International Journal of Solids and Structures, 2006, 43, 279-294.	1.3	32
63	Vibrational characteristics of single-walled carbon-nanotube: Time and frequency domain analysis. Journal of Applied Physics, 2007, 101, 114320.	1.1	32
64	Phononic band gap design in honeycomb lattice with combinations of auxetic and conventional core. Smart Materials and Structures, 2016, 25, 054011.	1.8	32
65	Large deformation analysis for anisotropic and inhomogeneous beams using exact linear static solutions. Composite Structures, 2006, 72, 91-104.	3.1	30
66	A spectral finite element for analysis of wave propagation in uniform composite tubes. Journal of Sound and Vibration, 2003, 268, 429-463.	2.1	29
67	Wavelet based spectral finite element modelling and detection of de-lamination in composite beams. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2006, 462, 1721-1740.	1.0	29
68	Wavelet based spectral finite element for analysis of coupled wave propagation in higher order composite beams. Composite Structures, 2006, 73, 263-277.	3.1	29
69	Wave propagation analysis in inhomogeneous piezo-composite layer by the thin-layer method. International Journal for Numerical Methods in Engineering, 2005, 64, 567-598.	1.5	28
70	Active feedback control of multiple waves in helicopter gearbox support struts. Smart Materials and Structures, 2001, 10, 1046-1058.	1.8	27
71	Estimation of composite damage model parameters using spectral finite element and neural network. Composites Science and Technology, 2004, 64, 2477-2493.	3.8	27
72	A higher-order spectral element for wave propagation analysis in functionally graded materials. Acta Mechanica, 2004, 172, 17-43.	1.1	25

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73	Strong nonlocalization induced by small scale parameter on terahertz flexural wave dispersion characteristics of a monolayer graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 43, 423-430.	1.3	25
74	Study of non-local wave properties of nanotubes with surface effects. <i>Computational Materials Science</i> , 2012, 56, 179-184.	1.4	25
75	Thermal vibration analysis of monolayer graphene embedded in elastic medium based on nonlocal continuum mechanics. <i>Composite Structures</i> , 2013, 100, 332-342.	3.1	24
76	Spectral finite element analysis of coupled wave propagation in composite beams with multiple delaminations and strip inclusions. <i>International Journal of Solids and Structures</i> , 2004, 41, 1173-1208.	1.3	23
77	Wave Propagation Analysis in Anisotropic Plate Using Wavelet Spectral Element Approach. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2008, 75, .	1.1	23
78	Laser Doppler imaging of delamination in a composite T-joint with remotely located ultrasonic actuators. <i>Composite Structures</i> , 2016, 147, 197-210.	3.1	23
79	An analytical model of constrained piezoelectric thin film sensors. <i>Sensors and Actuators A: Physical</i> , 2004, 116, 424-437.	2.0	22
80	Constrained piezoelectric thin film for sensing of subsurface cracks. <i>Smart Materials and Structures</i> , 2005, 14, 376-386.	1.8	22
81	Spectral Finite Element Formulation for Nanorods via Nonlocal Continuum Mechanics. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2011, 78, .	1.1	22
82	Optimization of laminated composite structure considering uncertainty effects. <i>Mechanics of Advanced Materials and Structures</i> , 2019, 26, 493-502.	1.5	22
83	Ultrasonic guided wave scattering due to delamination in curved composite structures. <i>Composite Structures</i> , 2020, 239, 111987.	3.1	22
84	Identification of Delamination in a Composite Beam Using a Damaged Spectral Element. <i>Structural Health Monitoring</i> , 2002, 1, 105-126.	4.3	21
85	Wave propagation analysis in adhesively bonded composite joints using the wavelet spectral finite element method. <i>Composite Structures</i> , 2015, 122, 271-283.	3.1	21
86	Vibration control in a composite box beam with piezoelectric actuators. <i>Smart Materials and Structures</i> , 2004, 13, 676-690.	1.8	19
87	Wave propagation analysis in carbon nanotube embedded composite using wavelet based spectral finite elements. <i>Smart Materials and Structures</i> , 2006, 15, 104-122.	1.8	19
88	Analysis of Wave Propagation in Beams With Transverse and Lateral Cracks Using a Weakly Formulated Spectral Method. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2007, 74, 119-127.	1.1	19
89	Nonlocal continuum mechanics based ultrasonic flexural wave dispersion characteristics of a monolayer graphene embedded in polymer matrix. <i>Composites Part B: Engineering</i> , 2012, 43, 3096-3103.	5.9	19
90	Delamination prediction in composite panels using unsupervised-feature learning methods with wavelet-enhanced guided wave representations. <i>Composite Structures</i> , 2022, 291, 115579.	3.1	18

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91	Lamb wave characteristics of thickness-graded piezoelectric IDT. <i>Ultrasonics</i> , 2005, 43, 736-746.	2.1	17
92	A failure mechanism based failure theory for laminated composites including the effect of shear stress. <i>Composite Structures</i> , 2005, 69, 219-227.	3.1	17
93	Acoustic emission source location and damage detection in a metallic structure using a graph-theory-based geodesic approach. <i>Smart Materials and Structures</i> , 2009, 18, 115022.	1.8	17
94	Wave propagation in multi-walled carbon nanotube. <i>Computational Materials Science</i> , 2009, 45, 411-418.	1.4	16
95	Ultrasonic wave characteristics of a monolayer graphene on silicon substrate. <i>Composite Structures</i> , 2011, 93, 1997-2009.	3.1	16
96	Nature inspired optimization techniques for the design optimization of laminated composite structures using failure criteria. <i>Expert Systems With Applications</i> , 2011, 38, 2489-2499.	4.4	16
97	Various numerical techniques for analysis of longitudinal wave propagation in inhomogeneous one-dimensional waveguides. <i>Acta Mechanica</i> , 2003, 162, 1-27.	1.1	15
98	A geodesic-based triangulation technique for damage location in metallic and composite plates. <i>Smart Materials and Structures</i> , 2010, 19, 115010.	1.8	13
99	A novel weak form quadrature element for gradient elastic beam theories. <i>Applied Mathematical Modelling</i> , 2020, 77, 1-16.	2.2	13
100	Behaviour of isoparametric quadrilateral family of Lagrangian fluid finite elements. <i>International Journal for Numerical Methods in Engineering</i> , 2002, 54, 731-761.	1.5	12
101	A spectral finite element for axial-flexural-shear coupled wave propagation analysis in lengthwise graded beam. <i>Computational Mechanics</i> , 2005, 36, 1-12.	2.2	12
102	Wave propagation in imperfectly bonded single walled carbon nanotube-polymer composites. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	12
103	Acoustic emission source location in composite structure by Voronoi construction using geodesic curve evolution. <i>Journal of the Acoustical Society of America</i> , 2009, 126, 2324-2330.	0.5	12
104	A higher-order finite waveguide model for spectral analysis of composite structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 195, 1116-1135.	3.4	11
105	Development of a New Finite Element for the Analysis of Sandwich Beams with Soft Core. <i>Journal of Sandwich Structures and Materials</i> , 2010, 12, 649-683.	2.0	11
106	THERMOELASTIC WAVE PROPAGATION IN ANISOTROPIC LAYERED MEDIA – A SPECTRAL ELEMENT FORMULATION. <i>International Journal of Computational Methods</i> , 2004, 01, 535-567.	0.8	10
107	Approximate Spectral Element for Wave Propagation Analysis in Inhomogenous Layered Media. <i>AIAA Journal</i> , 2006, 44, 1676-1685.	1.5	10
108	Theoretical Estimation of Length Dependent In-Plane Stiffness of Single Walled Carbon Nanotubes Using the Nonlocal Elasticity Theory. <i>Journal of Computational and Theoretical Nanoscience</i> , 2010, 7, 2349-2354.	0.4	10

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109	Spectral element approach to wave propagation in uncertain beam structures. Journal of Mechanics of Materials and Structures, 2010, 5, 637-659.	0.4	10
110	Time and Frequency Domain Finite Element Models for Axial Wave Analysis in Hyperelastic Rods. Mechanics of Advanced Materials and Structures, 2012, 19, 79-99.	1.5	10
111	Wave propagation in stiffened structures using spectrally formulated finite element. European Journal of Mechanics, A/Solids, 2013, 41, 1-15.	2.1	10
112	Stochastic time domain spectral element analysis of beam structures. Acta Mechanica, 2019, 230, 1487-1512.	1.1	10
113	Longitudinal Magnetic Field Effect on Nonlocal Ultrasonic Vibration Analysis of Single-Walled Carbon Nanotubes Based on Wave Propagation Approach. Advanced Science Letters, 2011, 4, 3382-3389.	0.2	10
114	Characterization Of Cracks And Delaminations Using Pwas Ad Lamb Wave Based Time-Frequency Methods. International Journal on Smart Sensing and Intelligent Systems, 2010, 3, 703-735.	0.4	10
115	Towards a Rational Failure Criterion for Unidirectional Composite Laminae. Mechanics of Advanced Materials and Structures, 2005, 12, 147-157.	1.5	9
116	Estimation of Dynamic Fracture Parameters in a Transverse Cracked Composite Beam using a Simplified Diagnostic Wave Propagation Model. Structural Health Monitoring, 2006, 5, 99-124.	4.3	9
117	The partition of unity finite element method for elastic wave propagation in Reissner-Mindlin plates. International Journal for Numerical Methods in Engineering, 2007, 70, 1451-1479.	1.5	9
118	A superconvergent finite element for composite beams with embedded magnetostrictive patches. Composite Structures, 2007, 79, 315-330.	3.1	9
119	Nonlocal continuum mechanics formulation for axial, flexural, shear and contraction coupled wave propagation in single walled carbon nanotubes. Latin American Journal of Solids and Structures, 2012, 9, 497-514.	0.6	9
120	Finite Element Simulation of BAW Propagation in Inhomogeneous Plate Due to Piezoelectric Actuation. Lecture Notes in Computer Science, 2003, , 715-724.	1.0	9
121	Poisson's Contraction Effects in a Deep Laminated Composite Beam. Mechanics of Advanced Materials and Structures, 2003, 10, 205-225.	1.5	8
122	Wavelet spectral element for wave propagation studies in pressure loaded axisymmetric cylinders. Journal of Mechanics of Materials and Structures, 2007, 2, 753-772.	0.4	8
123	Electrostatic measures for a piezoelectric thin film with an embedded crack in the substrate: II. Mode II. Smart Materials and Structures, 2008, 17, 025038.	1.8	8
124	Wave propagation in a porous composite beam: Porosity determination, location and quantification. International Journal of Solids and Structures, 2013, 50, 556-569.	1.3	8
125	A spectral element for wave propagation in honeycomb sandwich construction considering core flexibility. Composite Structures, 2015, 127, 28-40.	3.1	8
126	A half a decade timeline of shape memory alloys in modeling and applications. ISSS Journal of Micro and Smart Systems, 2020, 9, 1-32.	1.0	8

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127	Design, modeling and testing of d_{33} -mode surface-bondable multilayer piezoelectric actuator. Smart Materials and Structures, 2020, 29, 045016.	1.8	8
128	Numerical analysis of Lamb wave generation in piezoelectric composite IDT. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1851-1860.	1.7	7
129	Electrostatic measures for a piezoelectric thin film with an embedded crack in the substrate: I. Mode I. Smart Materials and Structures, 2008, 17, 025037.	1.8	7
130	Structural stability of slender aerospace vehicles: Part I. International Journal of Mechanical Sciences, 2010, 52, 937-951.	3.6	7
131	Wave propagation of phonon and phason displacement modes in quasicrystals: Determination of wave parameters. Journal of Applied Physics, 2015, 117, .	1.1	7
132	Wave transmission characteristics for higher-order sandwich panel with flexible core using time-domain spectral element method. Journal of Sandwich Structures and Materials, 2017, 19, 364-393.	2.0	7
133	Unified nonlocal rational continuum models developed from discrete atomistic equations. International Journal of Mechanical Sciences, 2018, 135, 176-189.	3.6	7
134	Static and dynamic analysis of sandwich panel with spatially varying non-Gaussian properties. Journal of Sandwich Structures and Materials, 2020, 22, 2469-2504.	2.0	7
135	Time Reversal Health Monitoring of Composite Plates using Lamb waves. International Journal of Aerospace Innovations, 2011, 3, 131-142.	0.2	7
136	Inverse characterization of composites using guided waves and convolutional neural networks with dual-branch feature fusion. Mechanics of Advanced Materials and Structures, 2022, 29, 6595-6611.	1.5	7
137	Estimation of degraded composite laminate properties using acoustic wave propagation model and a reductionâ€prediction network. Engineering Computations, 2005, 22, 849-876.	0.7	6
138	A NONLOCAL CONTINUUM MECHANICS MODEL TO ESTIMATE THE MATERIAL PROPERTY OF SINGLE-WALLED CARBON NANOTUBES. International Journal of Nanoscience, 2012, 11, 1250007.	0.4	6
139	Augmented Krylov model order reduction for finite element approximation of plane wave scattering problems., 2013, , .		6
140	Automatic finite element formulation and assembly of hyperelastic higher order structural models. Applied Mathematical Modelling, 2014, 38, 2867-2883.	2.2	6
141	Ply level uncertainty effects on failure curves and optimal design of laminated composites using directional bat algorithm. International Journal for Computational Methods in Engineering Science and Mechanics, 2018, 19, 156-170.	1.4	6
142	A comparative study of wave dispersion between discrete and continuum linear bond-based peridynamics systems: 1D framework. Mechanics Research Communications, 2018, 94, 40-44.	1.0	6
143	Longitudinal wave propagation in one-dimensional waveguides with sinusoidally varying depth. Journal of Sound and Vibration, 2019, 463, 114945.	2.1	6
144	Nonlinear modeling of d_{33} -mode piezoelectric actuators using experimental vibration analysis. Journal of Sound and Vibration, 2021, 505, 116151.	2.1	6

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145	Damage Detection Based on Damage Force Indicator Using Reduced-Order FE Models. International Journal for Computational Methods in Engineering Science and Mechanics, 2008, 9, 154-170.	1.4	5
146	Lamb wave based identification and parameter estimation of corrosion in metallic plate structure using a circular PWAS array. Proceedings of SPIE, 2009, , .	0.8	5
147	High accuracy curve fits for chirality, length and diameter dependent initial modulus of single walled carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 43, 252-255.	1.3	5
148	Uncertainty analysis of vibrational frequencies of an incompressible liquid in a rectangular tank with and without a baffle using polynomial chaos expansion. Acta Mechanica, 2011, 220, 257-273.	1.1	5
149	Three-dimensional sloshing: A consistent finite element approach. International Journal for Numerical Methods in Fluids, 2011, 66, 345-376.	0.9	5
150	A spectral multiscale method for wave propagation analysis: Atomistic-continuum coupled simulation. Computer Methods in Applied Mechanics and Engineering, 2014, 278, 744-764.	3.4	5
151	A Re-Examination of Wave Dispersion and on Equivalent Spatial Gradient of the Integral in Bond-Based Peridynamics. Journal of Peridynamics and Nonlocal Modeling, 2020, 2, 243-277.	1.4	5
152	<title>Optimal spectral control of multiple waves in smart composite beams with distributed sensor-actuator configuration</title>. , 2001, 4234, 52.		4
153	Analysis of Constrained Piezoelectric Layer: A Two-Dimensional Coupled Electromechanical Model. Ferroelectrics, 2005, 329, 131-137.	0.3	4
154	MODIFIED VIRTUAL CRACK-CLOSURE TECHNIQUE USING SPECTRAL ELEMENT METHOD. International Journal of Computational Methods, 2007, 04, 109-139.	0.8	4
155	A wave-based damage index for the analysis of the filtered response of damaged beams. Journal of Mechanics of Materials and Structures, 2008, 3, 1605-1623.	0.4	4
156	Structural stability of slender aerospace vehicles: Part II. International Journal of Mechanical Sciences, 2010, 52, 1145-1157.	3.6	4
157	Development of Empirical Relations for the Transversely Isotropic Properties of Zigzag, Armchair and Chiral Single-Walled Carbon Nanotubes. Advanced Composites Letters, 2012, 21, 096369351202100.	1.3	4
158	Multi-transform based spectral element to include first order shear deformation in plates. International Journal of Mechanical Sciences, 2015, 96-97, 110-120.	3.6	4
159	Impact force identification in structures using time-domain spectral finite elements. Acta Mechanica, 2020, 231, 4513-4528.	1.1	4
160	Scattering and Transmission of Mixed-Mode Waves in Delaminated Thick Composite Beams. , 2001, , .		4
161	Force Identification in a FGM Plate Using Truncated Response. , 2003, , .		3
162	Effect of the actuation phase on the SIF in delaminated composites with embedded piezoelectric layers. Smart Materials and Structures, 2003, 12, 602-611.	1.8	3

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163	Identification of delaminations in composite: structural health monitoring software based on spectral estimation and hierarchical genetic algorithm. , 2003, 5062, 720.		3
164	A quasi-three-dimensional approach to modeling and analysis of a constrained piezoelectric thin film. Acta Materialia, 2006, 54, 5529-5540.	3.8	3
165	Nonlinear Spectral Methods for the Analysis of Wave Propagation. , 2008, , .		3
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