Junuthula N Reddy

List of Publications by Year
in descending order

627 papers	46,579 citations	3531 90 h-index	2953 189 g-index
648 all docs	648 docs citations	648 times ranked	8540 citing authors

#	ARTICLE	IF	CITATIONS
1	A Simple Higher-Order Theory for Laminated Composite Plates. Journal of Applied Mechanics, Transactions ASME, 1984, 51, 745-752.	2.2	3,378
2	Mechanics of Laminated Composite Plates and Shells. , 0, , .		2,217
3	Nonlocal theories for bending, buckling and vibration of beams. International Journal of Engineering Science, 2007, 45, 288-307.	5.0	1,475
4	Analysis of functionally graded plates. International Journal for Numerical Methods in Engineering, 2000, 47, 663-684.	2.8	1,375
5	THERMOMECHANICAL ANALYSIS OF FUNCTIONALLY GRADED CYLINDERS AND PLATES. Journal of Thermal Stresses, 1998, 21, 593-626.	2.0	1,186
6	A higher-order nonlocal elasticity and strain gradient theory and its applications in wave propagation. Journal of the Mechanics and Physics of Solids, 2015, 78, 298-313.	4.8	1,161
7	A microstructure-dependent Timoshenko beam model based on a modified couple stress theory. Journal of the Mechanics and Physics of Solids, 2008, 56, 3379-3391.	4.8	979
8	A higher-order shear deformation theory of laminated elastic shells. International Journal of Engineering Science, 1985, 23, 319-330.	5.0	978
9	Nonlinear transient thermoelastic analysis of functionally graded ceramic-metal plates. International Journal of Solids and Structures, 1998, 35, 4457-4476.	2.7	932
10	Vibration of functionally graded cylindrical shells. International Journal of Mechanical Sciences, 1999, 41, 309-324.	6.7	675
11	A refined nonlinear theory of plates with transverse shear deformation. International Journal of Solids and Structures, 1984, 20, 881-896.	2.7	614
12	Stability and vibration of isotropic, orthotropic and laminated plates according to a higher-order shear deformation theory. Journal of Sound and Vibration, 1985, 98, 157-170.	3.9	602
13	A generalization of two-dimensional theories of laminated composite plates. Communications in Applied Numerical Methods, 1987, 3, 173-180.	0.5	591
14	Microstructure-dependent couple stress theories of functionally graded beams. Journal of the Mechanics and Physics of Solids, 2011, 59, 2382-2399.	4.8	576
15	Nonlocal continuum theories of beams for the analysis of carbon nanotubes. Journal of Applied Physics, 2008, 103, .	2.5	565
16	A new beam finite element for the analysis of functionally graded materials. International Journal of Mechanical Sciences, 2003, 45, 519-539.	6.7	490
17	Exact Solutions of Moderately Thick Laminated Shells. Journal of Engineering Mechanics - ASCE, 1984, 110, 794-809.	2.9	474
18	Theories and Computational Models for Composite Laminates. Applied Mechanics Reviews, 1994, 47, 147-169.	10.1	446

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19	Nonlocal nonlinear formulations for bending of classical and shear deformation theories of beams and plates. International Journal of Engineering Science, 2010, 48, 1507-1518.	5.0	443
20	Bending and vibration of functionally graded microbeams using a new higher order beam theory and the modified couple stress theory. International Journal of Engineering Science, 2013, 64, 37-53.	5.0	420
21	Modelling of thick composites using a layerwise laminate theory. International Journal for Numerical Methods in Engineering, 1993, 36, 655-677.	2.8	409
22	Vibration characteristics of functionally graded cylindrical shells under various boundary conditions. Applied Acoustics, 2000, 61, 111-129.	3.3	390
23	Nonlocal third-order shear deformation plate theory with application to bending and vibration of plates. Journal of Sound and Vibration, 2009, 326, 277-289.	3.9	363
24	Bending of Euler–Bernoulli beams using Eringen's integral formulation: A paradox resolved. International Journal of Engineering Science, 2016, 99, 107-116.	5.0	358
25	The Finite Element Method in Heat Transfer and Fluid Dynamics. , 0, , .		340
26	A refined hybrid plate theory for composite laminates with piezoelectric laminae. International Journal of Solids and Structures, 1995, 32, 2345-2367.	2.7	331
27	Analysis of laminated composite plates using a higher-order shear deformation theory. International Journal for Numerical Methods in Engineering, 1985, 21, 2201-2219.	2.8	326
28	On laminated composite plates with integrated sensors and actuators. Engineering Structures, 1999, 21, 568-593.	5.3	323
29	Axisymmetric bending of functionally graded circular and annular plates. European Journal of Mechanics, A/Solids, 1999, 18, 185-199.	3.7	318
30	A higher order beam finite element for bending and vibration problems. Journal of Sound and Vibration, 1988, 126, 309-326.	3.9	314
31	An evaluation of equivalent-single-layer and layerwise theories of composite laminates. Composite Structures, 1993, 25, 21-35.	5.8	304
32	Analysis of piezoelectrically actuated beams using a layer-wise displacement theory. Computers and Structures, 1991, 41, 265-279.	4.4	299
33	A non-classical Mindlin plate model based on a modified couple stress theory. Acta Mechanica, 2011, 220, 217-235.	2.1	293
34	On locking-free shear deformable beam finite elements. Computer Methods in Applied Mechanics and Engineering, 1997, 149, 113-132.	6.6	277
35	A nonlinear modified couple stress-based third-order theory of functionally graded plates. Composite Structures, 2012, 94, 1128-1143.	5.8	269
36	On refined computational models of composite laminates. International Journal for Numerical Methods in Engineering, 1989, 27, 361-382.	2.8	265

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37	A general non-linear third-order theory of plates with moderate thickness. International Journal of Non-Linear Mechanics, 1990, 25, 677-686.	2.6	258
38	A Review of Refined Theories of Laminated Composite Plates. The Shock and Vibration Digest, 1990, 22, 3-17.	6.2	256
39	Three-dimensional thermomechanical deformations of functionally graded rectangularÂplates. European Journal of Mechanics, A/Solids, 2001, 20, 841-855.	3.7	254
40	Dynamic stability analysis of functionally graded cylindrical shells under periodic axial loading. International Journal of Solids and Structures, 2001, 38, 1295-1309.	2.7	242
41	Buckling and vibration of laminated composite plates using various plate theories. AIAA Journal, 1989, 27, 1808-1817.	2.6	234
42	Non-local elastic plate theories. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 3225-3240.	2.1	231
43	Bending, free vibration, and buckling of modified couples stress-based functionally graded porous micro-plates. Composite Structures, 2019, 209, 879-888.	5.8	228
44	Free vibration analysis of laminated plates using a layerwise theory. AIAA Journal, 1993, 31, 2335-2346.	2.6	222
45	Modeling of delamination in composite laminates using a layer-wise plate theory. International Journal of Solids and Structures, 1991, 28, 373-388.	2.7	207
46	Vibration analysis of symmetrically laminated plates based on FSDT using the moving least squares differential quadrature method. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 2203-2222.	6.6	206
47	A unified higher order beam theory for buckling of a functionally graded microbeam embedded in elastic medium using modified couple stress theory. Composite Structures, 2013, 101, 47-58.	5.8	199
48	A finite-element model for piezoelectric composite laminates. Smart Materials and Structures, 1997, 6, 583-591.	3.5	182
49	A penalty plate-bending element for the analysis of laminated anisotropic composite plates. International Journal for Numerical Methods in Engineering, 1980, 15, 1187-1206.	2.8	173
50	Large deformation analysis of functionally graded shells. International Journal of Solids and Structures, 2007, 44, 2036-2052.	2.7	171
51	A plate bending element based on a generalized laminate plate theory. International Journal for Numerical Methods in Engineering, 1989, 28, 2275-2292.	2.8	170
52	A unified integro-differential nonlocal model. International Journal of Engineering Science, 2015, 95, 60-75.	5.0	169
53	Tensor-based finite element formulation for geometrically nonlinear analysis of shell structures. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 1048-1073.	6.6	166
54	Three-Dimensional Solutions of Smart Functionally Graded Plates. Journal of Applied Mechanics, Transactions ASME, 2001, 68, 234-241.	2.2	165

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55	A new non-linear higher-order shear deformation theory for large-amplitude vibrations of laminated doubly curved shells. International Journal of Non-Linear Mechanics, 2010, 45, 409-418.	2.6	165
56	Free vibration and buckling analyses of magneto-electro-elastic FGM nanoplates based on nonlocal modified higher-order sinusoidal shear deformation theory. Composites Part B: Engineering, 2020, 182, 107601.	12.0	161
57	Geometrically nonlinear transient analysis of laminated composite plates. AIAA Journal, 1983, 21, 621-629.	2.6	158
58	A Nonclassical Reddy-Levinson Beam Model Based on a Modified Couple Stress Theory. International Journal for Multiscale Computational Engineering, 2010, 8, 167-180.	1.2	154
59	Harmonic reproducing kernel particle method for free vibration analysis of rotating cylindrical shells. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 4141-4157.	6.6	153
60	Shear Deformation Plate and Shell Theories: From Stavsky to Present. Mechanics of Advanced Materials and Structures, 2004, 11, 535-582.	2.6	153
61	Analysis of Timoshenko nanobeams with a nonlocal formulation and meshless method. International Journal of Engineering Science, 2011, 49, 976-984.	5.0	153
62	Analytical solutions for bending, vibration, and buckling of FGM plates using a couple stress-based third-order theory. Composite Structures, 2013, 103, 86-98.	5.8	151
63	A comparison of closed-form and finite-element solutions of thick laminated anisotropic rectangular plates. Nuclear Engineering and Design, 1981, 64, 153-167.	1.7	149
64	An exact solution for the bending of thin and thick cross-ply laminated beams. Composite Structures, 1997, 37, 195-203.	5.8	149
65	Finite Element Analysis of Composite Laminates. Solid Mechanics and Its Applications, 1992, , .	0.2	147
66	A study of a microstructure-dependent composite laminated Timoshenko beam using a modified couple stress theory and a meshless method. Composite Structures, 2013, 96, 532-537.	5.8	142
67	Thermo-electro-mechanical vibration of size-dependent piezoelectric cylindrical nanoshells under various boundary conditions. Composite Structures, 2014, 116, 626-636.	5.8	142
68	Layerwise partial mixed finite element analysis of magneto-electro-elastic plates. Computers and Structures, 2004, 82, 1293-1301.	4.4	141
69	On nonconservativeness of Eringen's nonlocal elasticity in beam mechanics: correction from a discrete-based approach. Archive of Applied Mechanics, 2014, 84, 1275-1292.	2.2	139
70	Winkler–Pasternak foundation effect on the static and dynamic analyses of laminated doubly-curved and degenerate shells and panels. Composites Part B: Engineering, 2014, 57, 269-296.	12.0	139
71	Postbuckling of carbon nanotube reinforced functionally graded plates with edges elastically restrained against translation and rotation under axial compression. Computer Methods in Applied Mechanics and Engineering, 2016, 298, 1-28.	6.6	139
72	A new test methodology for evaluating scratch resistance of polymers. Wear, 2004, 256, 1214-1227.	3.1	138

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73	On penalty function methods in the finite-element analysis of flow problems. International Journal for Numerical Methods in Fluids, 1982, 2, 151-171.	1.6	127
74	A study of bending, vibration and buckling of cross-ply circular cylindrical shells with various shell theories. International Journal of Engineering Science, 1989, 27, 1337-1351.	5.0	127
75	A refined mixed shear flexible finite element for the nonlinear analysis of laminated plates. Computers and Structures, 1986, 22, 529-538.	4.4	126
76	Multiscale approach for threeâ€phase CNT/polymer/fiber laminated nanocomposite structures. Polymer Composites, 2019, 40, E102.	4.6	126
77	Thermoelastic Analysis of Functionally Graded Ceramic-Metal Cylinder. Journal of Engineering Mechanics - ASCE, 1999, 125, 1259-1267.	2.9	125
78	Postbuckling analysis of functionally graded plates subject to compressive and thermal loads. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 1645-1653.	6.6	120
79	Recent Studies on Buckling of Carbon Nanotubes. Applied Mechanics Reviews, 2010, 63, .	10.1	117
80	On the Generalization of Displacement-Based Laminate Theories. Applied Mechanics Reviews, 1989, 42, S213-S222.	10.1	114
81	Nonlinear analysis of functionally graded microstructure-dependent beams. Composite Structures, 2013, 98, 272-281.	5.8	110
82	The elastic response of functionally graded cylindrical shells to low-velocity impact. International Journal of Impact Engineering, 1999, 22, 397-417.	5.0	108
83	Nonlinear theories of axisymmetric bending of functionally graded circular plates with modified couple stress. Composite Structures, 2012, 94, 3664-3668.	5.8	107
84	Spectral/hp least-squares finite element formulation for the Navierâ€"Stokes equations. Journal of Computational Physics, 2003, 190, 523-549.	3.8	106
85	A Variational Approach to Three-Dimensional Elasticity Solutions of Laminated Composite Plates. Journal of Applied Mechanics, Transactions ASME, 1992, 59, S166-S175.	2.2	104
86	Spaceâ€"time coupled spectral/hp least-squares finite element formulation for the incompressible Navierâ€"Stokes equations. Journal of Computational Physics, 2004, 197, 418-459.	3.8	104
87	An accurate determination of stresses in thick laminates using a generalized plate theory. International Journal for Numerical Methods in Engineering, 1990, 29, 1-14.	2.8	102
88	Mesh-free radial basis function method for buckling analysis of non-uniformly loaded arbitrarily shaped shear deformable plates. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 205-224.	6.6	102
89	EFFECTS OF SHEAR DEFORMATION AND ANISOTROPY ON THE THERMAL BENDING OF LAYERED COMPOSITE PLATES. Journal of Thermal Stresses, 1980, 3, 475-493.	2.0	100
90	Dynamic (transient) analysis of layered anisotropic composite-material plates. International Journal for Numerical Methods in Engineering, 1983, 19, 237-255.	2.8	98

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91	Analysis of laminated composite shells using a degenerated 3-D element. International Journal for Numerical Methods in Engineering, 1984, 20, 1991-2007.	2.8	95
92	Nonlinear analysis of microstructure-dependent functionally graded piezoelectric material actuators. Journal of the Mechanics and Physics of Solids, 2014, 63, 214-227.	4.8	95
93	Eringenâ€™s nonlocal theories of beams accounting for moderate rotations. International Journal of Engineering Science, 2014, 82, 159-177.	5.0	95
94	Moving least squares differential quadrature method and its application to the analysis of shear deformable plates. International Journal for Numerical Methods in Engineering, 2003, 56, 2331-2351.	2.8	92
95	On refined theories of composite laminates. Meccanica, 1990, 25, 230-238.	2.0	91
96	General two-dimensional theory of laminated cylindrical shells. AIAA Journal, 1990, 28, 544-553.	2.6	90
97	Three-dimensional thermal analysis of laminated composite plates. International Journal of Solids and Structures, 1995, 32, 593-608.	2.7	89
98	Relationships between bending solutions of classical and shear deformation beam theories. International Journal of Solids and Structures, 1997, 34, 3373-3384.	2.7	88
99	Nonlinear thermal stability and vibration of pre/post-buckled temperature- and microstructure-dependent functionally graded beams resting on elastic foundation. Composite Structures, 2014, 112, 292-307.	5.8	87
100	Large amplitude flexural vibration of layered composite plates with cutouts. Journal of Sound and Vibration, 1982, 83, 1-10.	3.9	86
101	A non-classical third-order shear deformation plate model based on a modified couple stress theory. Acta Mechanica, 2013, 224, 2699-2718.	2.1	86
102	Nonlinear finite element analysis of functionally graded circular plates with modified couple stress theory. European Journal of Mechanics, A/Solids, 2016, 56, 92-104.	3.7	86
103	Active control of laminated cylindrical shells using piezoelectric fiber reinforced composites. Composites Science and Technology, 2005, 65, 1226-1236.	7.8	85
104	A semi-analytical finite element model for the analysis of cylindrical shells made of functionally graded materials under thermal shock. Composite Structures, 2008, 86, 10-21.	5.8	85
105	Simulations of creep crack growth in 316 stainless steel using a novel creep-damage model. Engineering Fracture Mechanics, 2013, 98, 169-184.	4.3	85
106	Large-deflection and large-amplitude free vibrations of laminated composite-material plates. Computers and Structures, 1981, 13, 341-347.	4.4	83
107	Analysis of Mindlin micro plates with a modified couple stress theory and a meshless method. Applied Mathematical Modelling, 2013, 37, 4626-4633.	4.2	83
108	Nonlocal nonlinear analysis of functionally graded plates using third-order shear deformation theory. International Journal of Engineering Science, 2018, 125, 1-22.	5.0	82

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109	On vibration suppression of magnetostrictive beams. Smart Materials and Structures, 2000, 9, 49-58.	3.5	81
110	Relationships between bending solutions of Reissner and Mindlin plate theories. Engineering Structures, 2001, 23, 838-849.	5.3	81
111	A Numerical Investigation on the Natural Frequencies of FGM Sandwich Shells with Variable Thickness by the Local Generalized Differential Quadrature Method. Applied Sciences (Switzerland), 2017, 7, 131.	2.5	81
112	THERMAL STRESSES AND DEFLECTIONS OF CROSS-PLY LAMINATED PLATES USING REFINED PLATE THEORIES. Journal of Thermal Stresses, 1991, 14, 419-438.	2.0	80
113	A Review of the Literature On Finite-Element Modeling of Laminated Composite Plates. The Shock and Vibration Digest, 1985, 17, 3-8.	6.2	79
114	A novel fiber optimization method based on normal distribution function with continuously varying fiber path. Composite Structures, 2017, 160, 503-515.	5.8	78
115	Vibration and stability analyses of cross-ply laminated circular cylindrical shells. Journal of Sound and Vibration, 1992, 157, 139-159.	3.9	77
116	The nonlinear, third-order thickness and shear deformation theory for statics and dynamics of laminated composite shells. Composite Structures, 2020, 244, 112265.	5.8	77
117	VARIABLE KINEMATIC MODELLING OF LAMINATED COMPOSITE PLATES. International Journal for Numerical Methods in Engineering, 1996, 39, 2283-2317.	2.8	76
118	Finite element method parametric study on scratch behavior of polymers. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 1435-1447.	2.1	76
119	Non-linear analysis of functionally graded microbeams using Eringen×³s non-local differential model. International Journal of Non-Linear Mechanics, 2014, 67, 308-318.	2.6	75
120	A general third-order theory of functionally graded plates with modified couple stress effect and the von KÃ¡rmÃ¡n nonlinearity: theory and finite element analysis. Acta Mechanica, 2015, 226, 2973-2998.	2.1	75
121	A seven-parameter spectral/hp finite element formulation for isotropic, laminated composite and functionally graded shell structures. Computer Methods in Applied Mechanics and Engineering, 2014, 278, 664-704.	6.6	73
122	Nonlinear Oscillations of Laminated, Anisotropic, Rectangular Plates. Journal of Applied Mechanics, Transactions ASME, 1982, 49, 396-402.	2.2	72
123	Transient analysis of laminated composite plates with embedded smart-material layers. Finite Elements in Analysis and Design, 2004, 40, 463-483.	3.2	72
124	Buckling analysis of isotropic and laminated plates by radial basis functions according to a higher-order shear deformation theory. Thin-Walled Structures, 2011, 49, 804-811.	5.3	72
125	Finite Element Analysis of Composite Laminates. Solid Mechanics and Its Applications, 1992, , 37-109.	0.2	71
126	Frequency of Functionally Graded Plates with Three-Dimensional Asymptotic Approach. Journal of Engineering Mechanics - ASCE, 2003, 129, 896-900.	2.9	71

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127	A NONLOCAL CURVED BEAM MODEL BASED ON A MODIFIED COUPLE STRESS THEORY. International Journal of Structural Stability and Dynamics, 2011, 11, 495-512.	2.4	69
128	Experimental and numerical investigations of low velocity impact on functionally graded circular plates. Composites Part B: Engineering, 2014, 59, 21-32.	12.0	69
129	A peridynamic theory for linear elastic shells. International Journal of Solids and Structures, 2016, 84, 110-132.	2.7	69
130	Analysis of composite plates using various plate theories -Part 1: Formulation and analytical solutions. Structural Engineering and Mechanics, 1998, 6, 583-612.	1.0	69
131	A Refined Small Strain and Moderate Rotation Theory of Elastic Anisotropic Shells. Journal of Applied Mechanics, Transactions ASME, 1988, 55, 611-617.	2.2	68
132	LeÂ´vy Type Solutions for Symmetrically Laminated Rectangular Plates Using First-Order Shear Deformation Theory. Journal of Applied Mechanics, Transactions ASME, 1987, 54, 740-742.	2.2	67
133	Postbuckling analysis of bi-axially compressed laminated nanocomposite plates using the first-order shear deformation theory. Composite Structures, 2016, 152, 418-431.	5.8	66
134	Bending of laminated anisotropic shells by a shear deformable finite element. Fibre Science and Technology, 1982, 17, 9-24.	0.2	65
135	A model for a constrained, finitely deforming, elastic solid with rotation gradient dependent strain energy, and its specialization to von KÃ¡rmÃ¡n plates and beams. Journal of the Mechanics and Physics of Solids, 2013, 61, 873-885.	4.8	65
136	On dual-complementary variational principles in mathematical physics. International Journal of Engineering Science, 1974, 12, 1-29.	5.0	63
137	Non-linear progressive failure analysis of laminated composite plates. International Journal of Non-Linear Mechanics, 1995, 30, 629-649.	2.6	63
138	Finite elements based on a first-order shear deformation moderate rotation shell theory with applications to the analysis of composite structures. International Journal of Non-Linear Mechanics, 1997, 32, 1123-1142.	2.6	63
139	Optimal control of thin circular cylindrical laminated composite shells using active constrained layer damping treatment. Smart Materials and Structures, 2004, 13, 64-72.	3.5	63
140	A finite element analysis of adhesively bonded composite joints with moisture diffusion and delayed failure. Computers and Structures, 1988, 29, 1011-1031.	4.4	62
141	THERMOELASTICITY OF CIRCULAR CYLINDRICAL SHELLS LAMINATED OF BIMODULUS COMPOSITE MATERIALS. Journal of Thermal Stresses, 1981, 4, 155-177.	2.0	61
142	A semi-analytical finite element model for the analysis of cylindrical shells made of functionally graded materials. Composite Structures, 2009, 91, 427-432.	5.8	61
143	The elasto-plastic impact analysis of functionally graded circular plates under low-velocities. Composite Structures, 2011, 93, 860-869.	5.8	61
144	Size-dependent vibration of a microplate under the action of a moving load based on the modified couple stress theory. Acta Mechanica, 2015, 226, 3807-3822.	2.1	60

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145	A new multi-p-norm formulation approach for stress-based topology optimization design. Composite Structures, 2016, 156, 10-19.	5.8	60
146	Nonlocal third-order shear deformation theory for analysis of laminated plates considering surface stress effects. Composite Structures, 2016, 139, 13-29.	5.8	59
147	Large deflections and large-amplitude free vibrations of straight and curved beams. International Journal for Numerical Methods in Engineering, 1981, 17, 829-852.	2.8	58
148	Superelastic and Shape Memory Effects in Laminated Shape-Memory-Alloy Beams. AIAA Journal, 2003, 41, 100-109.	2.6	58
149	On the bifurcation buckling and vibration of porous nanobeams. Composite Structures, 2020, 250, 112632.	5.8	58
150	Modified couple stress-based third-order theory for nonlinear analysis of functionally graded beams. Latin American Journal of Solids and Structures, 2014, 11, 459-487.	1.0	58
151	Nonlinear higher-order shell theory for incompressible biological hyperelastic materials. Computer Methods in Applied Mechanics and Engineering, 2019, 346, 841-861.	6.6	57
152	Modelling of piezolaminated plates using layerwise mixed finite elements. Computers and Structures, 2004, 82, 1849-1863.	4.4	56
153	A General Nonlinear Third-Order Theory of Functionally Graded Plates. International Journal of Aerospace and Lightweight Structures (IJALS), 2011, 01, 01.	0.1	56
154	A posteriori stress and strain recovery procedure for the static analysis of laminated shells resting on nonlinear elastic foundation. Composites Part B: Engineering, 2017, 126, 162-191.	12.0	56
155	Large amplitude vibration of FG-CNTRC laminated cylindrical shells with negative Poisson's ratio. Computer Methods in Applied Mechanics and Engineering, 2020, 360, 112727.	6.6	56
156	Non-local free and forced vibrations of graded nanobeams resting on a non-linear elastic foundation. International Journal of Non-Linear Mechanics, 2015, 77, 348-363.	2.6	55
157	A modified peridynamics correspondence principle: Removal of zero-energy deformation and other implications. Computer Methods in Applied Mechanics and Engineering, 2019, 346, 530-549.	6.6	55
158	Dynamic stability of cross-ply laminated composite cylindrical shells. International Journal of Mechanical Sciences, 1998, 40, 805-823.	6.7	54
159	Layer-wise shell theory for postbuckling of laminated circular cylindrical shells. AIAA Journal, 1992, 30, 2148-2154.	2.6	53
160	Experimental validation of the modified couple stress Timoshenko beam theory for web-core sandwich panels. Composite Structures, 2014, 111, 130-137.	5.8	53
161	Control of laminated composite plates using magnetostrictive layers. Smart Materials and Structures, 2001, 10, 657-667.	3.5	52
162	Thermo elastic analysis of functionally graded rotating disks with temperature-dependent material properties: uniform and variable thickness. International Journal of Mechanics and Materials in Design, 2009, 5, 263-279.	3.0	52

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163	A mixed variational framework for higher-order unified gradient elasticity. International Journal of Engineering Science, 2022, 170, 103603.	5.0	52
164	Vibration suppression of laminated shell structures investigated using higher order shear deformation theory. Smart Materials and Structures, 2004, 13, 1176-1194.	3.5	51
165	Nonlinear nonlocal analysis of electrostatic nanoactuators. Composite Structures, 2015, 120, 117-128.	5.8	51
166	A comprehensive analysis of the state of stress of elastic anisotropic flat plates using refined theories. Acta Mechanica, 1987, 70, 57-81.	2.1	50
167	A penalty model for the analysis of laminated composite shells. International Journal of Solids and Structures, 1993, 30, 3337-3355.	2.7	50
168	Optimization of Fiber Coatings to Minimize Stress Concentrations in Composite Materials. Journal of Composite Materials, 1993, 27, 589-612.	2.4	50
169	Dynamic stability of cylindrical panels with transverse shear effects. International Journal of Solids and Structures, 1999, 36, 3483-3496.	2.7	50
170	On the wave dispersion in functionally graded porous Timoshenko-Ehrenfest nanobeams based on the higher-order nonlocal gradient elasticity. Composite Structures, 2022, 279, 114819.	5.8	50
171	Penalty-finite-element analysis of 3-D Navier-Stokes equations. Computer Methods in Applied Mechanics and Engineering, 1982, 35, 87-106.	6.6	49
172	On a moderate rotation theory of laminated anisotropic shells—Part 1. Theory. International Journal of Non-Linear Mechanics, 1990, 25, 687-700.	2.6	49
173	On vibration and buckling of symmetric laminated plates according to shear deformation theories. Acta Mechanica, 1992, 94, 123-144.	2.1	49
174	Thermal effects on the response of cross-ply laminated shallow shells. International Journal of Solids and Structures, 1992, 29, 653-667.	2.7	49
175	Size-Dependent Free Vibrations of FG Polymer Composite Curved Nanobeams Reinforced with Graphene Nanoplatelets Resting on Pasternak Foundations. Applied Sciences (Switzerland), 2019, 9, 1580.	2.5	49
176	Finite-element models of viscoelasticity and diffusion in adhesively bonded joints. International Journal for Numerical Methods in Engineering, 1988, 26, 2531-2546.	2.8	48
177	Surface and non-local effects for non-linear analysis of Timoshenko beams. International Journal of Non-Linear Mechanics, 2015, 76, 100-111.	2.6	48
178	Influence of edge conditions on the modal characteristics of cross-ply laminated shells. Computers and Structures, 1990, 34, 817-826.	4.4	47
179	Modeling of the Thermomechanical Response of Active Laminates with SMA Strips Using the Layerwise Finite Element Method. Journal of Intelligent Material Systems and Structures, 1997, 8, 476-488.	2.5	47
180	THE k-VERSION OF FINITE ELEMENT METHOD FOR SELF-ADJOINT OPERATORS IN BVP. International Journal of Computational Engineering Science, 2002, 03, 155-218.	0.1	47

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181	Constitutive Material Modeling of Cell: A Micromechanics Approach. Journal of Biomechanical Engineering, 2007, 129, 315-323.	1.3	47
182	Layerwise mixed least-squares finite element models for static and free vibration analysis of multilayered composite plates. Composite Structures, 2010, 92, 2328-2338.	5.8	47
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