

Junuthula N Reddy

List of Publications by Year in descending order

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627
papers

46,579
citations

3531

90
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2953

189
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648
all docs

648
docs citations

648
times ranked

8540
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling fracture in brittle materials with inertia effects using the phase field method. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 144-159.	2.6	3
2	Evaluation of geometrically nonlinear and elastoplastic behavior of functionally graded plates under mechanical loading—unloading. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 1587-1600.	2.6	2
3	A discrete nonlocal damage mechanics approach. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 1813-1820.	2.6	4
4	A contemporary approach to the MSE paradigm powered by Artificial Intelligence from a review focused on Polymer Matrix Composites. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 3076-3096.	2.6	9
5	Interaction between interfacial damage and crack propagation in quasi-brittle materials. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 3187-3208.	2.6	13
6	Mechanical and thermal buckling of ceramic—metal plates. , 2022, , 269-292.		1
7	On the wave dispersion in functionally graded porous Timoshenko-Ehrenfest nanobeams based on the higher-order nonlocal gradient elasticity. <i>Composite Structures</i> , 2022, 279, 114819.	5.8	50
8	A mixed variational framework for higher-order unified gradient elasticity. <i>International Journal of Engineering Science</i> , 2022, 170, 103603.	5.0	52
9	Special issue of Engineering Analysis with Boundary Elements: Computational approaches to mechanical response analysis of structures at diverse scales. <i>Engineering Analysis With Boundary Elements</i> , 2022, 136, 1-2.	3.7	0
10	Topology Optimization of Lightweight Structures With Application to Bone Scaffolds and 3D Printed Shoes for Diabetics. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2022, 89, .	2.2	5
11	Experimental, theoretical and numerical studies on plain concrete fracture in the low-strain rate regime—A state-of-the-art review. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 7115-7159.	2.6	3
12	On simulating impact fracture in high-strength concrete using GraFEA. <i>Extreme Mechanics Letters</i> , 2022, 52, 101618.	4.1	6
13	A combined principal component analysis and energy minimization-based approach to model deformation of web core beams. <i>Acta Mechanica</i> , 2022, 233, 921-942.	2.1	1
14	A mixed variational principle in nonlinear elasticity using Cartan’s moving frames and implementation with finite element exterior calculus. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 393, 114756.	6.6	3
15	A new nonlinear 5-parameter beam model accounting for the Poisson effect. <i>International Journal of Non-Linear Mechanics</i> , 2022, 142, 103996.	2.6	5
16	Pattern transformation induced waisted post-buckling of perforated cylindrical shells. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 164, 104915.	4.8	6
17	<sc>PIMesh</sc> : An automatic point cloud and unstructured mesh generation algorithm for meshless methods and finite element analysis —with applications in surgical simulations. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2022, , e3615.	2.1	0
18	A novel four-field mixed FE approximation for Kirchhoff rods using Cartan’s moving frames. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 402, 115094.	6.6	3

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19	Nonlocal integral elasticity for third-order small-scale beams. <i>Acta Mechanica</i> , 2022, 233, 2393-2403.	2.1	4
20	Numerical investigation on normal and oblique ballistic impact behavior of functionally graded plates. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 2114-2130.	2.6	10
21	Post-buckling of web-core sandwich plates based on classical continuum mechanics: success and needs for non-classical formulations. <i>Meccanica</i> , 2021, 56, 1287-1302.	2.0	5
22	Postbuckling of doubly curved FG-GRC laminated panels subjected to lateral pressure in thermal environments. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 260-270.	2.6	15
23	Modeling of a biological material nacre: Multi-objective optimization model. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 430-439.	2.6	3
24	Modeling of brittle fracture in thick plates subjected to transient dynamic loads using a hybrid phase field model. <i>Meccanica</i> , 2021, 56, 1269-1286.	2.0	4
25	Least-squares finite element analysis of three-dimensional natural convection of generalized Newtonian fluids. <i>International Journal for Numerical Methods in Fluids</i> , 2021, 93, 1292-1307.	1.6	5
26	A dual mesh finite domain method for steady-state convection-diffusion problems. <i>Computers and Fluids</i> , 2021, 214, 104760.	2.5	3
27	Nonlinear frequency behaviour of magneto-electromechanical mass nanosensors using vibrating MEE nanoplates with multiple nanoparticles. <i>Composite Structures</i> , 2021, 260, 113458.	5.8	28
28	Dual mesh control domain analysis of functionally graded circular plates accounting for moderate rotations. <i>Composite Structures</i> , 2021, 257, 113153.	5.8	4
29	A general higher-order shell theory for compressible isotropic hyperelastic materials using orthonormal moving frame. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 235-269.	2.8	13
30	A critical assessment of two-stage composite time integration schemes with a unified set of time approximations. <i>Latin American Journal of Solids and Structures</i> , 2021, 18, .	1.0	3
31	Bending analysis of functionally graded rectangular plates using the dual mesh control domain method. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2021, 22, 425-437.	2.1	3
32	A Novel Family of Two-Stage Implicit Time Integration Schemes for Structural Dynamics. <i>International Journal of Computational Methods</i> , 2021, 18, .	1.3	3
33	Multiple cracking model in a 3D GraFEA framework. <i>Continuum Mechanics and Thermodynamics</i> , 2021, 33, 1409-1428.	2.2	8
34	A Geometrically Inspired Model for Brittle Damage in Compressible Elastomers. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2021, 88, .	2.2	3
35	Assessment of the effect of negative Poisson's ratio on the thermal postbuckling of temperature dependent FG-GRMMC laminated cylindrical shells. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 376, 113664.	6.6	23
36	Nonlocal phase field approach for modeling damage in brittle materials. <i>Mechanics of Materials</i> , 2021, 157, 103797.	3.2	6

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37	Theories and analyses of functionally graded circular plates. Composites Part C: Open Access, 2021, 5, 100166.	3.2	6
38	Analytical solution for a 5-parameter beam displacement model. International Journal of Mechanical Sciences, 2021, 201, 106496.	6.7	7
39	On the piezoelectric effect on stability of symmetric FGM porous nanobeams. Composite Structures, 2021, 267, 113880.	5.8	45
40	Theories and Analysis of Functionally Graded Beams. Applied Sciences (Switzerland), 2021, 11, 7159.	2.5	8
41	Interaction of anisotropic crack phase field with interface cohesive zone model for fiber reinforced composites. Composite Structures, 2021, 270, 114038.	5.8	25
42	Fracture modelling of plain concrete using non-local fracture mechanics and a graph-based computational framework. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, .	2.1	6
43	Nonlinear mechanics of sandwich plates: Layerwise third-order thickness and shear deformation theory. Composite Structures, 2021, 278, 114693.	5.8	17
44	Personal Reflections of My Research in Structural Mechanics: Past, Present, and Future. Lecture Notes in Civil Engineering, 2021, , 33-42.	0.4	1
45	Postbuckling analysis of nonlocal functionally graded beams. Latin American Journal of Solids and Structures, 2021, 18, .	1.0	3
46	Topology optimization of fibers orientation in hyperelastic composite material. Composite Structures, 2020, 231, 111488.	5.8	23
47	Hygro-thermo-mechanical modelling and analysis of multilayered plates with embedded functionally graded material layers. Composite Structures, 2020, 233, 111442.	5.8	28
48	A continuum eight-parameter shell finite element for large deformation analysis. Mechanics of Advanced Materials and Structures, 2020, 27, 551-560.	2.6	11
49	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
50	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
51	Nonlocal bending and buckling of agglomerated CNT-Reinforced composite nanoplates. Composites Part B: Engineering, 2020, 183, 107716.	12.0	43
52	Hierarchy of beam models for lattice core sandwich structures. International Journal of Solids and Structures, 2020, 204-205, 172-186.	2.7	12
53	On the nonlinear vibration and static deflection problems of actuated hybrid nanotubes based on the stress-driven nonlocal integral elasticity. Mechanics of Materials, 2020, 148, 103532.	3.2	45
54	An enhanced Hencky bar-chain model for bending, buckling and vibration analyses of Reddy beams. Engineering Structures, 2020, 221, 111056.	5.3	7

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55	A Comparative Study of Implicit and Explicit Composite Time Integration Schemes. International Journal of Structural Stability and Dynamics, 2020, 20, 2041003.	2.4	11
56	Effect of negative Poisson's ratio on the post-buckling behavior of FG-GRMMC laminated plates in thermal environments. Composite Structures, 2020, 253, 112731.	5.8	33
57	Geometrically nonlinear Euler-Bernoulli and Timoshenko micropolar beam theories. Acta Mechanica, 2020, 231, 4217-4242.	2.1	6
58	A dual mesh control domain method for the solution of nonlinear Poisson's equation and the Navier-Stokes equations for incompressible fluids. Physics of Fluids, 2020, 32, .	4.0	5
59	Evaluation of exact electro-elastic static and free vibration solutions of multilayered plates for benchmarking: Piezoelectric composite laminates and soft core sandwich plates. Composites Part C: Open Access, 2020, 2, 100038.	3.2	3
60	Nonlinear analysis of functionally graded beams using the dual mesh finite domain method and the finite element method. International Journal of Non-Linear Mechanics, 2020, 127, 103575.	2.6	15
61	Linear Vibration Analysis of Shells Using a Seven-Parameter Spectral/hp Finite Element Model. Applied Sciences (Switzerland), 2020, 10, 5102.	2.5	2
62	Surface elastic waves whispering gallery modes based subwavelength tunable waveguide and cavity modes of the phononic crystals. Mechanics of Advanced Materials and Structures, 2020, 27, 1053-1064.	2.6	25
63	On the application of fractional calculus for the formulation of viscoelastic Reddy beam. Meccanica, 2020, 55, 1365-1378.	2.0	7
64	A dual mesh finite domain method for the analysis of functionally graded beams. Composite Structures, 2020, 251, 112648.	5.8	15
65	On the bifurcation buckling and vibration of porous nanobeams. Composite Structures, 2020, 250, 112632.	5.8	58
66	Buckling analysis of elastic-plastic nanoplates resting on a Winkler-Pasternak foundation based on nonlocal third-order plate theory. International Journal of Non-Linear Mechanics, 2020, 121, 103453.	2.6	21
67	Nonlocal transient dynamic analysis of laminated composite plates. Mechanics of Advanced Materials and Structures, 2020, 27, 1076-1084.	2.6	19
68	Nonlinear finite element analysis of lattice core sandwich plates. International Journal of Non-Linear Mechanics, 2020, 121, 103423.	2.6	14
69	Phase field modeling of fracture in Quasi-Brittle materials using natural neighbor Galerkin method. Computer Methods in Applied Mechanics and Engineering, 2020, 366, 113019.	6.6	24
70	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
71	Design optimization of functionally graded plates under thermo-mechanical loadings to minimize stress, deformation and mass. Composite Structures, 2020, 245, 112360.	5.8	29
72	Numerical simulations of damage and fracture in viscoelastic solids using a nonlocal fracture criterion. Mechanics of Advanced Materials and Structures, 2020, 27, 1085-1097.	2.6	21

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73	Bending Analysis of Functionally Graded Axisymmetric Circular Plates using the Dual Mesh Finite Domain Method. Latin American Journal of Solids and Structures, 2020, 17, .	1.0	5
74	Laminated Composite Elastic Shells, Nonlinear Theory. , 2020, , 1442-1453.		0
75	Thermoviscoplasticity in Body-Centered Cubic Metals: A Two-Temperature Model With Grain Boundary Evolution. Journal of Applied Mechanics, Transactions ASME, 2020, 87, .	2.2	1
76	Ordered rate constitutive theories for non-classical thermoviscoelastic solids with memory incorporating internal and Cosserat rotations. Continuum Mechanics and Thermodynamics, 2019, 31, 427-455.	2.2	4
77	An Analytical Poroelastic Model of a Nonhomogeneous Medium Under Creep Compression for Ultrasound Poroelastography Applications Part I. Journal of Biomechanical Engineering, 2019, 141, .	1.3	6
78	Special Issue for MAMS. Mechanics of Advanced Materials and Structures, 2019, 26, 1-1.	2.6	8
79	Stress wave propagation in a through-thickness functionally graded adhesive layer. Journal of Adhesion Science and Technology, 2019, 33, 2329-2355.	2.6	6
80	A nonlocal fracture criterion and its effect on the mesh dependency of GraFEA. Acta Mechanica, 2019, 230, 3593-3612.	2.1	14
81	An <i>n</i> -sided polygonal finite element for nonlocal nonlinear analysis of plates and laminates. International Journal for Numerical Methods in Engineering, 2019, 120, 1071-1107.	2.8	12
82	Nonlocal buckling analysis of laminated composite plates considering surface stress effects. Composite Structures, 2019, 226, 111216.	5.8	36
83	Geometrically exact micropolar Timoshenko beam and its application in modelling sandwich beams made of architected lattice core. Composite Structures, 2019, 226, 111228.	5.8	15
84	Nonlinear Analysis for Bending, Buckling and Post-buckling of Nano-Beams with Nonlocal and Surface Energy Effects. International Journal of Structural Stability and Dynamics, 2019, 19, 1950130.	2.4	20
85	Hygro-thermo-mechanical modelling of multilayered plates: Hybrid composite laminates, fibre metal laminates and sandwich plates. Composites Part B: Engineering, 2019, 177, 107388.	12.0	28
86	Micromechanical modeling of the machining behavior of natural fiber-reinforced polymer composites. International Journal of Advanced Manufacturing Technology, 2019, 105, 1549-1561.	3.0	14
87	A nonlinear 1-D finite element analysis of rods/tubes made of incompressible neo-Hookean materials using higher-order theory. International Journal of Solids and Structures, 2019, 166, 1-21.	2.7	16
88	Fracture of viscoelastic materials: FEM implementation of a non-local & rate form-based finite-deformation constitutive theory. Computer Methods in Applied Mechanics and Engineering, 2019, 354, 871-903.	6.6	41
89	A dual mesh finite domain method for the numerical solution of differential equations. International Journal for Computational Methods in Engineering Science and Mechanics, 2019, 20, 212-228.	2.1	14
90	A conformal gauge theory of solids: Insights into a class of electromechanical and magnetomechanical phenomena. Journal of the Mechanics and Physics of Solids, 2019, 130, 35-55.	4.8	6

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91	Two-scale micropolar plate model for web-core sandwich panels. <i>International Journal of Solids and Structures</i> , 2019, 170, 82-94.	2.7	35
92	3-D least-squares finite element analysis of flows of generalized Newtonian fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2019, 266, 143-159.	2.4	10
93	Size-Dependent Free Vibrations of FG Polymer Composite Curved Nanobeams Reinforced with Graphene Nanoplatelets Resting on Pasternak Foundations. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1580.	2.5	49
94	Stress wave propagation in adhesively bonded functionally graded cylinders: an improved model. <i>Journal of Adhesion Science and Technology</i> , 2019, 33, 156-186.	2.6	8
95	3D Micro-Structural Modeling of Vibration Characteristics of Smart Particle-Reinforced Metal-Matrix Composite Beams. <i>International Journal of Structural Stability and Dynamics</i> , 2019, 19, 1950078.	2.4	2
96	Deformations and stresses of multilayered plates with embedded functionally graded material layers using a layerwise mixed model. <i>Composites Part B: Engineering</i> , 2019, 156, 274-291.	12.0	22
97	Stress wave propagation in a functionally graded adhesive layer between two identical cylinders. <i>Journal of Adhesion</i> , 2019, 95, 1146-1181.	3.0	11
98	A modified peridynamics correspondence principle: Removal of zero-energy deformation and other implications. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 346, 530-549.	6.6	55
99	Nonlinear finite element analysis of lattice core sandwich beams. <i>European Journal of Mechanics, A/Solids</i> , 2019, 74, 431-439.	3.7	22
100	Non-classical continuum theories for solid and fluent continua and some applications. <i>International Journal of Smart and Nano Materials</i> , 2019, 10, 28-89.	4.2	7
101	Bending, free vibration, and buckling of modified couples stress-based functionally graded porous micro-plates. <i>Composite Structures</i> , 2019, 209, 879-888.	5.8	228
102	Thermodynamic consistency of beam theories in the context of classical and non-classical continuum mechanics and a thermodynamically consistent new formulation. <i>Continuum Mechanics and Thermodynamics</i> , 2019, 31, 1283-1312.	2.2	7
103	An Analytical Poroelastic Model of a Nonhomogeneous Medium Under Creep Compression for Ultrasound Poroelastography Applications – Part II. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	1.3	5
104	Topology optimization of flexensional piezoelectric actuators with active control law. <i>Smart Materials and Structures</i> , 2019, 28, 035015.	3.5	17
105	Fully coupled thermo-mechanical analysis of multilayered plates with embedded FGM skins or core layers using a layerwise mixed model. <i>Composite Structures</i> , 2019, 210, 971-996.	5.8	26
106	A derivative-free upscaled theory for analysis of defects. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 122, 489-501.	4.8	7
107	Nonlinear higher-order shell theory for incompressible biological hyperelastic materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 346, 841-861.	6.6	57
108	Two-scale constitutive modeling of a lattice core sandwich beam. <i>Composites Part B: Engineering</i> , 2019, 160, 66-75.	12.0	32

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109	Multiscale approach for three-phase CNT/polymer/fiber laminated nanocomposite structures. <i>Polymer Composites</i> , 2019, 40, E102.	4.6	126
110	A finite deformation, finite strain nonclassical internal polar continuum theory for solids. <i>Mechanics of Advanced Materials and Structures</i> , 2019, 26, 381-393.	2.6	0
111	One dimensional nonlocal integro-differential model & gradient elasticity model : Approximate solutions and size effects. <i>Mechanics of Advanced Materials and Structures</i> , 2019, 26, 260-273.	2.6	4
112	Modeling of a biological material nacre: Waviness toughness model. <i>Mechanics of Advanced Materials and Structures</i> , 2019, 26, 789-795.	2.6	7
113	Ballistic performance of honeycomb sandwich structures reinforced by functionally graded face plates. <i>Journal of Sandwich Structures and Materials</i> , 2019, 21, 211-229.	3.5	23
114	Ordered Rate Constitutive Theories for Non-Classical Thermoelastoviscoelastic Fluids Incorporating Internal and Cosserat Rotation Rates. <i>International Journal of Applied Mechanics</i> , 2018, 10, 1850012.	2.2	4
115	Optimized dynamic design of laminated piezocomposite multi-entry actuators considering fiber orientation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 335, 223-254.	6.6	23
116	Shear deformable plate elements based on exact elasticity solution. <i>Computers and Structures</i> , 2018, 200, 21-31.	4.4	8
117	Necessity of law of balance/equilibrium of moment of moments in non-classical continuum theories for fluent continua. <i>Acta Mechanica</i> , 2018, 229, 2801-2833.	2.1	11
118	Necessity of law of balance of moment of moments in non-classical continuum theories for solid continua. <i>Meccanica</i> , 2018, 53, 2939-2972.	2.0	15
119	A higher-order equilibrium finite element method. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 114, 1262-1290.	2.8	6
120	Variational formulation for dissipative continua and an incremental J-integral. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20170674.	2.1	1
121	An analytical poroelastic model for ultrasound elastography imaging of tumors. <i>Physics in Medicine and Biology</i> , 2018, 63, 025031.	3.0	14
122	A one-dimensional model of 3-D structure for large deformation: a general higher-order rod theory. <i>Acta Mechanica</i> , 2018, 229, 1803-1831.	2.1	2
123	Nonlinear Analysis of Plates with Rotation Gradient-Dependent Potential Energy for Constrained Microrotation. <i>Journal of Engineering Mechanics - ASCE</i> , 2018, 144, 04017180.	2.9	0
124	Nonlocal nonlinear analysis of functionally graded plates using third-order shear deformation theory. <i>International Journal of Engineering Science</i> , 2018, 125, 1-22.	5.0	82
125	Alternate forms of thermodynamic laws for thermoelastic solids and the constitutive theories. <i>Mechanics of Advanced Materials and Structures</i> , 2018, 25, 1297-1312.	2.6	1
126	Nonlocal nonlinear bending and free vibration analysis of a rotating laminated nano cantilever beam. <i>Mechanics of Advanced Materials and Structures</i> , 2018, 25, 439-450.	2.6	38

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127	Least-squares finite element analysis of flow of a generalized Newtonian fluid past a circular cylinder. <i>Mechanics of Advanced Materials and Structures</i> , 2018, 25, 1186-1196.	2.6	5
128	A topology optimization formulation for transient design of multi-entry laminated piezocomposite energy harvesting devices coupled with electrical circuit. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 113, 1370-1410.	2.8	21
129	Dynamic analysis of three-dimensional high-speed train-track model using moving element method. <i>Advances in Structural Engineering</i> , 2018, 21, 862-876.	2.4	19
130	Nonlinear analysis of ionic polymer-metal composite beams using the von Kármán strains. <i>International Journal of Non-Linear Mechanics</i> , 2018, 98, 64-74.	2.6	7
131	A general higher-order one-dimensional model for large deformation analysis of solid bodies. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 328, 99-121.	6.6	6
132	Nonlocal nonlinear finite element analysis of composite plates using TSDT. <i>Composite Structures</i> , 2018, 185, 38-50.	5.8	22
133	Micropolar modeling approach for periodic sandwich beams. <i>Composite Structures</i> , 2018, 185, 656-664.	5.8	39
134	A Phase-Field Damage Model for Orthotropic Materials and Delamination in Composites. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018, 85, .	2.2	25
135	Simulation of inextensible elasto-plastic beams based on an implicit rate type model. <i>International Journal of Non-Linear Mechanics</i> , 2018, 99, 165-172.	2.6	10
136	Metal viscoplasticity with two-temperature thermodynamics and two dislocation densities. <i>Continuum Mechanics and Thermodynamics</i> , 2018, 30, 397-420.	2.2	9
137	Preface to Special Issue for IJCMESM. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2018, 19, 375-375.	2.1	0
138	An Analytical Model of Tumors With Higher Permeability Than Surrounding Tissues for Ultrasound Elastography Imaging. <i>Journal of Engineering and Science in Medical Diagnostics and Therapy</i> , 2018, 1, .	0.5	4
139	A Model-Based Approach to Investigate the Effect of a Long Bone Fracture on Ultrasound Strain Elastography. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 2704-2717.	8.9	10
140	Ordered Rate Constitutive Theories for Non-classical Thermoviscoelastic Solids with Dissipation and Memory Incorporating Internal Rotations. <i>Polytechnica</i> , 2018, 1, 19-35.	2.1	1
141	A Higher-Order Theory for Open and Closed Curved Rods and Tubes Using a Novel Curvilinear Cylindrical Coordinate System. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018, 85, .	2.2	7
142	Influence of the homogenization scheme on the bending response of functionally graded plates. <i>Acta Mechanica</i> , 2018, 229, 4071-4089.	2.1	16
143	Laminated Composite Elastic Shells, Nonlinear Theory. , 2018, , 1-12.		0
144	Ordered rate constitutive theories for thermoviscoelastic solids without memory incorporating internal and Cosserat rotations. <i>Acta Mechanica</i> , 2018, 229, 3189-3213.	2.1	7

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145	Unification of local and nonlocal models within a stable integral formulation for analysis of defects. <i>International Journal of Engineering Science</i> , 2018, 132, 45-59.	5.0	18
146	Active piezoelectric-structure acoustic control of a soft-core sandwich panel using volume velocity and a weighted sum of spatial gradient control metric. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 2391-2400.	2.6	7
147	Modeling of functionally graded smart plates with gradient elasticity effects. <i>Mechanics of Advanced Materials and Structures</i> , 2017, 24, 437-447.	2.6	14
148	In-plane vibration analysis of plates in curvilinear domains by a differential quadrature hierarchical finite element method. <i>Meccanica</i> , 2017, 52, 1017-1033.	2.0	28
149	Buckling and free vibration of shear-flexible sandwich beams using a couple-stress-based finite element. <i>Composite Structures</i> , 2017, 165, 233-241.	5.8	33
150	Non-classical continuum theory for solids incorporating internal rotations and rotations of Cosserat theories. <i>Continuum Mechanics and Thermodynamics</i> , 2017, 29, 665-698.	2.2	21
151	Nonlinear analysis of beams with rotation gradient dependent potential energy for constrained micro-rotation. <i>European Journal of Mechanics, A/Solids</i> , 2017, 65, 178-194.	3.7	10
152	Two-Temperature Thermodynamics for Metal Viscoplasticity: Continuum Modeling and Numerical Experiments. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017, 84, .	2.2	11
153	A dynamic flow rule for viscoplasticity in polycrystalline solids under high strain rates. <i>International Journal of Non-Linear Mechanics</i> , 2017, 95, 10-18.	2.6	7
154	A posteriori stress and strain recovery procedure for the static analysis of laminated shells resting on nonlinear elastic foundation. <i>Composites Part B: Engineering</i> , 2017, 126, 162-191.	12.0	56
155	An Overview of Theories of Continuum Mechanics With Nonlocal Elastic Response and a General Framework for Conservative and Dissipative Systems. <i>Applied Mechanics Reviews</i> , 2017, 69, .	10.1	44
156	Relating Entropy Flux With Heat Flux in Two-Temperature Thermodynamic Model for Metal Thermoviscoplasticity. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017, 84, .	2.2	9
157	Nonlocal free vibration of graded nanobeams resting on a nonlinear elastic foundation using DQM and LaDQM. <i>Composite Structures</i> , 2017, 176, 736-747.	5.8	22
158	A New Family of Higher-Order Time Integration Algorithms for the Analysis of Structural Dynamics. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017, 84, .	2.2	35
159	Effective Higher-Order Time Integration Algorithms for the Analysis of Linear Structural Dynamics. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017, 84, .	2.2	19
160	Experimental tests and numerical modeling of ballistic impact on honeycomb sandwich structures reinforced by functionally graded plates. <i>Journal of Composite Materials</i> , 2017, 51, 4009-4028.	2.4	25
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