Junuthula N Reddy

List of Publications by Year in Descending Order

624 papers	38,826 citations	88 h-index	184 g-index
648 ext. papers	42,370 ext. citations	3.3 avg, IF	8.14 L-index

#	Paper	IF	Citations
624	On simulating impact fracture in high-strength concrete using GraFEA. *Extreme Mechanics Letters*, **2022**, 52, 101618	3.9	0
623	Special issue of Engineering Analysis with Boundary Elements: Computational approaches to mechanical response analysis of structures at diverse scales. *Engineering Analysis With Boundary Elements*, **2022**, 136, 1-2	2.6	
622	On the wave dispersion in functionally graded porous Timoshenko-Ehrenfest nanobeams based on the higher-order nonlocal gradient elasticity. *Composite Structures*, **2022**, 279, 114819	5.3	10
621	A mixed variational framework for higher-order unified gradient elasticity. *International Journal of Engineering Science*, **2022**, 170, 103603	5.7	12
620	Mechanical and thermal buckling of ceramic□metal plates **2022**, 269-292		
619	A combined principal component analysis and energy minimization-based approach to model deformation of web core beams. *Acta Mechanica*, **2022**, 233, 921-942	2.1	1
618	A mixed variational principle in nonlinear elasticity using Cartan□ moving frames and implementation with finite element exterior calculus. *Computer Methods in Applied Mechanics and Engineering*, **2022**, 393, 114756	5.7	1
617	A new nonlinear 5-parameter beam model accounting for the Poisson effect. *International Journal of Non-Linear Mechanics*, **2022**, 142, 103996	2.8	0
616	Pattern transformation induced waisted post-buckling of perforated cylindrical shells. *Journal of the Mechanics and Physics of Solids*, **2022**, 164, 104915	5	1
615	PIMesh: An automatic point cloud and unstructured mesh generation algorithm for meshless methods and finite element analysis - with applications in surgical simulations.. *International Journal for Numerical Methods in Biomedical Engineering*, **2022**, e3615	2.6	
614	A novel four-field mixed FE approximation for Kirchhoff rods using Cartan□ moving frames. *Computer Methods in Applied Mechanics and Engineering*, **2022**, 115094	5.7	1
613	Potential of Homogenized and Non-local Beam and Plate Theories in Ship Structural Design. *Lecture Notes in Civil Engineering*, **2021**, 184-196	0.3	1
612	Personal Reflections of My Research in Structural Mechanics: Past, Present, and Future. *Lecture Notes in Civil Engineering*, **2021**, 33-42	0.3	
611	Bending analysis of functionally graded rectangular plates using the dual mesh control domain method. *International Journal for Computational Methods in Engineering Science and Mechanics*, **2021**, 22, 425-437	0.7	1
610	Multiple cracking model in a 3D GraFEA framework. *Continuum Mechanics and Thermodynamics*, **2021**, 33, 1409-1428	3.5	3
609	A Geometrically Inspired Model for Brittle Damage in Compressible Elastomers. *Journal of Applied Mechanics, Transactions ASME*, **2021**, 88,	2.7	1
608	Assessment of the effect of negative Poisson□ ratio on the thermal postbuckling of temperature dependent FG-GRMMC laminated cylindrical shells. *Computer Methods in Applied Mechanics and Engineering*, **2021**, 376, 113664	5.7	15

607	Nonlocal phase field approach for modeling damage in brittle materials. *Mechanics of Materials*, **2021**, 157, 103797	3.3	2
606	Theories and analyses of functionally graded circular plates. *Composites Part C: Open Access*, **2021**, 5, 100166	1.6	3
605	Analytical solution for a 5-parameter beam displacement model. *International Journal of Mechanical Sciences*, **2021**, 201, 106496	5.5	3
604	Post-buckling of web-core sandwich plates based on classical continuum mechanics: success and needs for non-classical formulations. *Meccanica*, **2021**, 56, 1287-1302	2.1	4
603	Postbuckling of doubly curved FG-GRC laminated panels subjected to lateral pressure in thermal environments. *Mechanics of Advanced Materials and Structures*, **2021**, 28, 260-270	1.8	10
602	Modeling of a biological material nacre: Multi-objective optimization model. *Mechanics of Advanced Materials and Structures*, **2021**, 28, 430-439	1.8	1
601	Modeling of brittle fracture in thick plates subjected to transient dynamic loads using a hybrid phase field model. *Meccanica*, **2021**, 56, 1269-1286	2.1	2
600	Least-squares finite element analysis of three-dimensional natural convection of generalized Newtonian fluids. *International Journal for Numerical Methods in Fluids*, **2021**, 93, 1292-1307	1.9	2
599	A dual mesh finite domain method for steady-state convection□diffusion problems. *Computers and Fluids*, **2021**, 214, 104760	2.8	1
598	Nonlinear frequency behaviour of magneto-electromechanical mass nanosensors using vibrating MEE nanoplates with multiple nanoparticles. *Composite Structures*, **2021**, 260, 113458	5.3	10
597	Dual mesh control domain analysis of functionally graded circular plates accounting for moderate rotations. *Composite Structures*, **2021**, 257, 113153	5.3	3
596	A general higher-order shell theory for compressible isotropic hyperelastic materials using orthonormal moving frame. *International Journal for Numerical Methods in Engineering*, **2021**, 122, 235-269	2.4	6
595	On the piezoelectric effect on stability of symmetric FGM porous nanobeams. *Composite Structures*, **2021**, 267, 113880	5.3	14
594	Theories and Analysis of Functionally Graded Beams. *Applied Sciences (Switzerland)*, **2021**, 11, 7159	2.6	2
593	Interaction of anisotropic crack phase field with interface cohesive zone model for fiber reinforced composites. *Composite Structures*, **2021**, 270, 114038	5.3	4
592	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, 20210398	2.4	1
591	Nonlinear mechanics of sandwich plates: Layerwise third-order thickness and shear deformation theory. *Composite Structures*, **2021**, 278, 114693	5.3	5
590	A discrete nonlocal damage mechanics approach. *Mechanics of Advanced Materials and Structures*, **2020**, 1-8	1.8	1

589	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	1.8	17
588	On the application of fractional calculus for the formulation of viscoelastic Reddy beam. *Meccanica*, **2020**, 55, 1365-1378	2.1	3
587	Numerical investigation on normal and oblique ballistic impact behavior of functionally graded plates. *Mechanics of Advanced Materials and Structures*, **2020**, 1-17	1.8	2
586	A dual mesh finite domain method for the analysis of functionally graded beams. *Composite Structures*, **2020**, 251, 112648	5.3	10
585	On the bifurcation buckling and vibration of porous nanobeams. *Composite Structures*, **2020**, 250, 112632	5.3	31
584	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	2.8	15
583	Nonlocal transient dynamic analysis of laminated composite plates. *Mechanics of Advanced Materials and Structures*, **2020**, 27, 1076-1084	1.8	10
582	Nonlinear finite element analysis of lattice core sandwich plates. *International Journal of Non-Linear Mechanics*, **2020**, 121, 103423	2.8	7
581	Phase field modeling of fracture in Quasi-Brittle materials using natural neighbor Galerkin method. *Computer Methods in Applied Mechanics and Engineering*, **2020**, 366, 113019	5.7	12
580	The nonlinear, third-order thickness and shear deformation theory for statics and dynamics of laminated composite shells. *Composite Structures*, **2020**, 244, 112265	5.3	46
579	Design optimization of functionally graded plates under thermo-mechanical loadings to minimize stress, deformation and mass. *Composite Structures*, **2020**, 245, 112360	5.3	15
578	Bending Analysis of Functionally Graded Axisymmetric Circular Plates using the Dual Mesh Finite Domain Method. *Latin American Journal of Solids and Structures*, **2020**, 17,	1.4	3
577	Numerical simulations of damage and fracture in viscoelastic solids using a nonlocal fracture criterion. *Mechanics of Advanced Materials and Structures*, **2020**, 27, 1085-1097	1.8	10
576	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	10	88
575	Large amplitude vibration of FG-CNTRC laminated cylindrical shells with negative Poisson's ratio. *Computer Methods in Applied Mechanics and Engineering*, **2020**, 360, 112727	5.7	36
574	Nonlocal bending and buckling of agglomerated CNT-Reinforced composite nanoplates. *Composites Part B: Engineering*, **2020**, 183, 107716	10	23
573	Hierarchy of beam models for lattice core sandwich structures. *International Journal of Solids and Structures*, **2020**, 204-205, 172-186	3.1	4
572	Evaluation of geometrically nonlinear and elastoplastic behavior of functionally graded plates under mechanical loading–unloading. *Mechanics of Advanced Materials and Structures*, **2020**, 1-14	1.8	0

571	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	3.3	31
570	An enhanced Hencky bar-chain model for bending, buckling and vibration analyses of Reddy beams. *Engineering Structures*, **2020**, 221, 111056	4.7	5
569	A Comparative Study of Implicit and Explicit Composite Time Integration Schemes. *International Journal of Structural Stability and Dynamics*, **2020**, 20, 2041003	1.9	3
568	Effect of negative Poisson's ratio on the post-buckling behavior of FG-GRMMC laminated plates in thermal environments. *Composite Structures*, **2020**, 253, 112731	5.3	19
567	Geometrically nonlinear Euler–Bernoulli and Timoshenko micropolar beam theories. *Acta Mechanica*, **2020**, 231, 4217-4242	2.1	2
566	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, 093608	4.4	2
565	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	1.6	2
564	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	2.8	7
563	Linear Vibration Analysis of Shells Using a Seven-Parameter Spectral/hp Finite Element Model. *Applied Sciences (Switzerland)*, **2020**, 10, 5102	2.6	1
562	Topology optimization of fibers orientation in hyperelastic composite material. *Composite Structures*, **2020**, 231, 111488	5.3	6
561	Hygro-thermo-mechanical modelling and analysis of multilayered plates with embedded functionally graded material layers. *Composite Structures*, **2020**, 233, 111442	5.3	20
560	A continuum eight-parameter shell finite element for large deformation analysis. *Mechanics of Advanced Materials and Structures*, **2020**, 27, 551-560	1.8	8
559	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	1.9	12
558	Hygro-thermo-mechanical modelling of multilayered plates: Hybrid composite laminates, fibre metal laminates and sandwich plates. *Composites Part B: Engineering*, **2019**, 177, 107388	10	24
557	Micromechanical modeling of the machining behavior of natural fiber-reinforced polymer composites. *International Journal of Advanced Manufacturing Technology*, **2019**, 105, 1549-1561	3.2	6
556	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	3.1	11
555	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	5.7	23
554	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	0.7	10

553	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	5	4
552	Two-scale micropolar plate model for web-core sandwich panels. *International Journal of Solids and Structures*, **2019**, 170, 82-94	3.1	22
551	3-D least-squares finite element analysis of flows of generalized Newtonian fluids. *Journal of Non-Newtonian Fluid Mechanics*, **2019**, 266, 143-159	2.7	7
550	Size-Dependent Free Vibrations of FG Polymer Composite Curved Nanobeams Reinforced with Graphene Nanoplatelets Resting on Pasternak Foundations. *Applied Sciences (Switzerland)*, **2019**, 9, 1580	2.6	33
549	Stress wave propagation in adhesively bonded functionally graded cylinders: an improved model. *Journal of Adhesion Science and Technology*, **2019**, 33, 156-186	2	4
548	3D Micro-Structural Modeling of Vibration Characteristics of Smart Particle-Reinforced Metal-Matrix Composite Beams. *International Journal of Structural Stability and Dynamics*, **2019**, 19, 1950078	1.9	
547	Ordered rate constitutive theories for non-classical thermoviscoelastic solids with memory incorporating internal and Cosserat rotations. *Continuum Mechanics and Thermodynamics*, **2019**, 31, 427-455	2.5	4
546	Special Issue for MAMS. *Mechanics of Advanced Materials and Structures*, **2019**, 26, 1-1	1.8	7
545	Stress wave propagation in a through-thickness functionally graded adhesive layer. *Journal of Adhesion Science and Technology*, **2019**, 33, 2329-2355	2	3
544	A nonlocal fracture criterion and its effect on the mesh dependency of GraFEA. *Acta Mechanica*, **2019**, 230, 3593-3612	2.1	7
543	An n-sided polygonal finite element for nonlocal nonlinear analysis of plates and laminates. *International Journal for Numerical Methods in Engineering*, **2019**, 120, 1071-1107	2.4	7
542	Nonlocal buckling analysis of laminated composite plates considering surface stress effects. *Composite Structures*, **2019**, 226, 111216	5.3	20
541	Geometrically exact micropolar Timoshenko beam and its application in modelling sandwich beams made of architected lattice core. *Composite Structures*, **2019**, 226, 111228	5.3	10
540	Deformations and stresses of multilayered plates with embedded functionally graded material layers using a layerwise mixed model. *Composites Part B: Engineering*, **2019**, 156, 274-291	10	19
539	Stress wave propagation in a functionally graded adhesive layer between two identical cylinders **2019**, 95, 1146-1181		5
538	A modified peridynamics correspondence principle: Removal of zero-energy deformation and other implications. *Computer Methods in Applied Mechanics and Engineering*, **2019**, 346, 530-549	5.7	33
537	Nonlinear finite element analysis of lattice core sandwich beams. *European Journal of Mechanics, A/Solids*, **2019**, 74, 431-439	3.7	19
536	Non-classical continuum theories for solid and fluent continua and some applications. *International Journal of Smart and Nano Materials*, **2019**, 10, 28-89	3.6	3

535	Bending, free vibration, and buckling of modified couples stress-based functionally graded porous micro-plates. *Composite Structures*, **2019**, 209, 879-888	5.3	145
534	Thermodynamic consistency of beam theories in the context of classical and non-classical continuum mechanics and a thermodynamically consistent new formulation. *Continuum Mechanics and Thermodynamics*, **2019**, 31, 1283-1312	3.5	5
533	Topology optimization of flextensional piezoelectric actuators with active control law. *Smart Materials and Structures*, **2019**, 28, 035015	3.4	10
532	Fully coupled thermo-mechanical analysis of multilayered plates with embedded FGM skins or core layers using a layerwise mixed model. *Composite Structures*, **2019**, 210, 971-996	5.3	15
531	A derivative-free upscaled theory for analysis of defects. *Journal of the Mechanics and Physics of Solids*, **2019**, 122, 489-501	5	5
530	Nonlinear higher-order shell theory for incompressible biological hyperelastic materials. *Computer Methods in Applied Mechanics and Engineering*, **2019**, 346, 841-861	5.7	33
529	Two-scale constitutive modeling of a lattice core sandwich beam. *Composites Part B: Engineering*, **2019**, 160, 66-75	10	19
528	Multiscale approach for three-phase CNT/polymer/fiber laminated nanocomposite structures. *Polymer Composites*, **2019**, 40, E102	3	91
527	A finite deformation, finite strain nonclassical internal polar continuum theory for solids. *Mechanics of Advanced Materials and Structures*, **2019**, 26, 381-393	1.8	
526	One dimensional nonlocal integro-differential model & gradient elasticity model : Approximate solutions and size effects. *Mechanics of Advanced Materials and Structures*, **2019**, 26, 260-273	1.8	3
525	Modeling of a biological material nacre: Waviness toughness model. *Mechanics of Advanced Materials and Structures*, **2019**, 26, 789-795	1.8	5
524	Ballistic performance of honeycomb sandwich structures reinforced by functionally graded face plates. *Journal of Sandwich Structures and Materials*, **2019**, 21, 211-229	2.1	14
523	Ordered Rate Constitutive Theories for Non-Classical Thermoviscoelastic Fluids Incorporating Internal and Cosserat Rotation Rates. *International Journal of Applied Mechanics*, **2018**, 10, 1850012	2.4	4
522	Optimized dynamic design of laminated piezocomposite multi-entry actuators considering fiber orientation. *Computer Methods in Applied Mechanics and Engineering*, **2018**, 335, 223-254	5.7	16
521	Shear deformable plate elements based on exact elasticity solution. *Computers and Structures*, **2018**, 200, 21-31	4.5	6
520	Necessity of law of balance/equilibrium of moment of moments in non-classical continuum theories for fluent continua. *Acta Mechanica*, **2018**, 229, 2801-2833	2.1	7
519	Necessity of law of balance of moment of moments in non-classical continuum theories for solid continua. *Meccanica*, **2018**, 53, 2939-2972	2.1	11
518	A higher-order equilibrium finite element method. *International Journal for Numerical Methods in Engineering*, **2018**, 114, 1262-1290	2.4	3

517	Variational formulation for dissipative continua and an incremental J-integral. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2018**, 474, 20170674	2.4	1
516	An analytical poroelastic model for ultrasound elastography imaging of tumors. *Physics in Medicine and Biology*, **2018**, 63, 025031	3.8	14
515	A one-dimensional model of 3-D structure for large deformation: a general higher-order rod theory. *Acta Mechanica*, **2018**, 229, 1803-1831	2.1	2
514	Nonlinear Analysis of Plates with Rotation Gradient□Dependent Potential Energy for Constrained Microrotation. *Journal of Engineering Mechanics - ASCE*, **2018**, 144, 04017180	2.4	
513	Nonlocal nonlinear analysis of functionally graded plates using third-order shear deformation theory. *International Journal of Engineering Science*, **2018**, 125, 1-22	5.7	68
512	Alternate forms of thermodynamic laws for thermoelastic solids and the constitutive theories. *Mechanics of Advanced Materials and Structures*, **2018**, 25, 1297-1312	1.8	
511	Nonlocal nonlinear bending and free vibration analysis of a rotating laminated nano cantilever beam. *Mechanics of Advanced Materials and Structures*, **2018**, 25, 439-450	1.8	30
510	Least-squares finite element analysis of flow of a generalized Newtonian fluid past a circular cylinder. *Mechanics of Advanced Materials and Structures*, **2018**, 25, 1186-1196	1.8	3
509	A topology optimization formulation for transient design of multi-entry laminated piezocomposite energy harvesting devices coupled with electrical circuit. *International Journal for Numerical Methods in Engineering*, **2018**, 113, 1370-1410	2.4	15
508	Dynamic analysis of three-dimensional high-speed train-track model using moving element method. *Advances in Structural Engineering*, **2018**, 21, 862-876	1.9	16
507	Nonlinear analysis of ionic polymer□metal composite beams using the von K□m□ strains. *International Journal of Non-Linear Mechanics*, **2018**, 98, 64-74	2.8	7
506	A general higher-order one-dimensional model for large deformation analysis of solid bodies. *Computer Methods in Applied Mechanics and Engineering*, **2018**, 328, 99-121	5.7	5
505	A Model-Based Approach to Investigate the Effect of a Long Bone Fracture on Ultrasound Strain Elastography. *IEEE Transactions on Medical Imaging*, **2018**, 37, 2704-2717	11.7	5
504	Ordered Rate Constitutive Theories for Non-classical Thermoviscoelastic Solids with Dissipation and Memory Incorporating Internal Rotations. *Polytechnica*, **2018**, 1, 19-35	1	1
503	A Higher-Order Theory for Open and Closed Curved Rods and Tubes Using a Novel Curvilinear Cylindrical Coordinate System. *Journal of Applied Mechanics, Transactions ASME*, **2018**, 85,	2.7	6
502	Influence of the homogenization scheme on the bending response of functionally graded plates. *Acta Mechanica*, **2018**, 229, 4071-4089	2.1	9
501	Ordered rate constitutive theories for thermoviscoelastic solids without memory incorporating internal and Cosserat rotations. *Acta Mechanica*, **2018**, 229, 3189-3213	2.1	6
500	Unification of local and nonlocal models within a stable integral formulation for analysis of defects. *International Journal of Engineering Science*, **2018**, 132, 45-59	5.7	15

499	An analytical poroelastic model of a non-homogeneous medium under creep compression for ultrasound poroelastography applications - Part I. *Journal of Biomechanical Engineering*, **2018**,	2.1	5
498	An analytical poroelastic model of a non-homogeneous medium under creep compression for ultrasound poroelastography applications - Part II. *Journal of Biomechanical Engineering*, **2018**,	2.1	5
497	Nonlocal nonlinear finite element analysis of composite plates using TSDT. *Composite Structures*, **2018**, 185, 38-50	5.3	18
496	Micropolar modeling approach for periodic sandwich beams. *Composite Structures*, **2018**, 185, 656-664	5.3	23
495	A Phase-Field Damage Model for Orthotropic Materials and Delamination in Composites. *Journal of Applied Mechanics, Transactions ASME*, **2018**, 85,	2.7	17
494	Simulation of inextensible elasto-plastic beams based on an implicit rate type model. *International Journal of Non-Linear Mechanics*, **2018**, 99, 165-172	2.8	6
493	Metal viscoplasticity with two-temperature thermodynamics and two dislocation densities. *Continuum Mechanics and Thermodynamics*, **2018**, 30, 397-420	3.5	6
492	Preface to Special Issue for IJCMESM. *International Journal for Computational Methods in Engineering Science and Mechanics*, **2018**, 19, 375-375	0.7	
491	An Analytical Model of Tumors With Higher Permeability Than Surrounding Tissues for Ultrasound Elastography Imaging. *Journal of Engineering and Science in Medical Diagnostics and Therapy*, **2018**, 1,	1	4
490	Active piezoelectric-structure acoustic control of a soft-core sandwich panel using volume velocity and a weighted sum of spatial gradient control metric. *JVC/Journal of Vibration and Control*, **2017**, 23, 2391-2400	2	6
489	Modeling of functionally graded smart plates with gradient elasticity effects. *Mechanics of Advanced Materials and Structures*, **2017**, 24, 437-447	1.8	12
488	In-plane vibration analysis of plates in curvilinear domains by a differential quadrature hierarchical finite element method. *Meccanica*, **2017**, 52, 1017-1033	2.1	25
487	Buckling and free vibration of shear-flexible sandwich beams using a couple-stress-based finite element. *Composite Structures*, **2017**, 165, 233-241	5.3	26
486	Non-classical continuum theory for solids incorporating internal rotations and rotations of Cosserat theories. *Continuum Mechanics and Thermodynamics*, **2017**, 29, 665-698	3.5	17
485	Nonlinear analysis of beams with rotation gradient dependent potential energy for constrained micro-rotation. *European Journal of Mechanics, A/Solids*, **2017**, 65, 178-194	3.7	10
484	Two-Temperature Thermodynamics for Metal Viscoplasticity: Continuum Modeling and Numerical Experiments. *Journal of Applied Mechanics, Transactions ASME*, **2017**, 84,	2.7	9
483	A dynamic flow rule for viscoplasticity in polycrystalline solids under high strain rates. *International Journal of Non-Linear Mechanics*, **2017**, 95, 10-18	2.8	5
482	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	10	48

481	An Overview of Theories of Continuum Mechanics With Nonlocal Elastic Response and a General Framework for Conservative and Dissipative Systems. *Applied Mechanics Reviews*, **2017**, 69,	8.6	30
480	Relating Entropy Flux With Heat Flux in Two-Temperature Thermodynamic Model for Metal Thermoviscoplasticity. *Journal of Applied Mechanics, Transactions ASME*, **2017**, 84,	2.7	7
479	Nonlocal free vibration of graded nanobeams resting on a nonlinear elastic foundation using DQM and LaDQM. *Composite Structures*, **2017**, 176, 736-747	5.3	18
478	A New Family of Higher-Order Time Integration Algorithms for the Analysis of Structural Dynamics. *Journal of Applied Mechanics, Transactions ASME*, **2017**, 84,	2.7	27
477	Effective Higher-Order Time Integration Algorithms for the Analysis of Linear Structural Dynamics. *Journal of Applied Mechanics, Transactions ASME*, **2017**, 84,	2.7	16
476	Experimental tests and numerical modeling of ballistic impact on honeycomb sandwich structures reinforced by functionally graded plates. *Journal of Composite Materials*, **2017**, 51, 4009-4028	2.7	14
475	Benchmark exact free vibration solutions for multilayered piezoelectric composite plates. *Composite Structures*, **2017**, 182, 598-605	5.3	17
474	Computational Modeling of Damage and Failures in Composite Laminates **2017**, 1-41		
473	A peridynamic model for plasticity: Micro-inertia based flow rule, entropy equivalence and localization residuals. *Computer Methods in Applied Mechanics and Engineering*, **2017**, 327, 369-391	5.7	24
472	Phase field based peridynamics damage model for delamination of composite structures. *Composite Structures*, **2017**, 180, 972-993	5.3	28
471	Effect of bone-soft tissue friction on ultrasound axial shear strain elastography. *Physics in Medicine and Biology*, **2017**, 62, 6074-6091	3.8	10
470	Nonlinear transient and thermal analysis of functionally graded shells using a seven-parameter shell finite element **2017**, 1,		4
469	A novel fiber optimization method based on normal distribution function with continuously varying fiber path. *Composite Structures*, **2017**, 160, 503-515	5.3	50
468	Bridging plate theories and elasticity solutions. *International Journal of Solids and Structures*, **2017**, 106-107, 251-263	3.1	8
467	Nonlinear size-dependent longitudinal vibration of carbon nanotubes embedded in an elastic medium. *Physica E: Low-Dimensional Systems and Nanostructures*, **2017**, 88, 18-25	3	33
466	A unified beam theory with strain gradient effect and the von K□rm□n nonlinearity. *ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik*, **2017**, 97, 70-91	1	17
465	Modeling of a biological material nacre: Waviness stiffness model. *Materials Science and Engineering C*, **2017**, 70, 772-776	8.3	20
464	Effect of Interstitial Fluid Pressure on Ultrasound Axial Strain and Axial Shear Strain Elastography. *Ultrasonic Imaging*, **2017**, 39, 137-146	1.9	10

463	A discrete Lagrangian based direct approach to macroscopic modelling. *Journal of the Mechanics and Physics of Solids*, **2017**, 98, 172-180	5	17
462	Closed-form solution for circular microstructure-dependent Mindlin plates. *Acta Mechanica*, **2017**, 228, 323-331	2.1	8
461	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	2.6	64
460	An Equivalent Layer-Wise Approach for the Free Vibration Analysis of Thick and Thin Laminated and Sandwich Shells. *Applied Sciences (Switzerland)*, **2017**, 7, 17	2.6	31
459	Non-classical continuum theory for fluids incorporating internal and Cosserat rotation rates. *Continuum Mechanics and Thermodynamics*, **2017**, 29, 1249-1289	3.5	11
458	Post-buckling of functionally graded microplates under mechanical and thermal loads using isogeomertic analysis. *Engineering Structures*, **2017**, 150, 905-917	4.7	23
457	Space-Time Finite Element Method **2017**, 1-251		
456	Using non-local Timoshenko beam theories for prediction of micro- and macro-structural responses. *Composite Structures*, **2016**, 156, 410-420	5.3	25
455	Geometrically nonlinear analysis of arbitrarily straight-sided quadrilateral FGM plates. *Composite Structures*, **2016**, 154, 443-452	5.3	14
454	Analysis of anisotropic gradient elastic shear deformable plates. *Acta Mechanica*, **2016**, 227, 3639-3656	2.1	16
453	Nonlinear analysis of size-dependent and material-dependent nonlocal CNTs. *Composite Structures*, **2016**, 153, 902-913	5.3	36
452	GraFEA: a graph-based finite element approach for the study of damage and fracture in brittle materials. *Meccanica*, **2016**, 51, 3129-3147	2.1	15
451	Material Model for Creep-Assisted Microcracking Applied to S2 Sea Ice. *Journal of Applied Mechanics, Transactions ASME*, **2016**, 83,	2.7	1
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