Junuthula N Reddy

List of Publications by Citations

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	A Simple Higher-Order Theory for Laminated Composite Plates. *Journal of Applied Mechanics, Transactions ASME*, **1984**, 51, 745-752	2.7	2923
623	Mechanics of Laminated Composite Plates and Shells		1692
622	Nonlocal theories for bending, buckling and vibration of beams. *International Journal of Engineering Science*, **2007**, 45, 288-307	5.7	1264
621	Analysis of functionally graded plates. *International Journal for Numerical Methods in Engineering*, **2000**, 47, 663-684	2.4	1169
620	THERMOMECHANICAL ANALYSIS OF FUNCTIONALLY GRADED CYLINDERS AND PLATES. *Journal of Thermal Stresses*, **1998**, 21, 593-626	2.2	977
619	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	5	855
618	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	5	850
617	A higher-order shear deformation theory of laminated elastic shells. *International Journal of Engineering Science*, **1985**, 23, 319-330	5.7	839
616	Nonlinear transient thermoelastic analysis of functionally graded ceramic-metal plates. *International Journal of Solids and Structures*, **1998**, 35, 4457-4476	3.1	819
615	Vibration of functionally graded cylindrical shells. *International Journal of Mechanical Sciences*, **1999** , 41, 309-324	5.5	571
614	A refined nonlinear theory of plates with transverse shear deformation. *International Journal of Solids and Structures*, **1984**, 20, 881-896	3.1	540
613	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	533
612	A generalization of two-dimensional theories of laminated composite plates. *Communications in Applied Numerical Methods*, **1987**, 3, 173-180		529
611	Microstructure-dependent couple stress theories of functionally graded beams. *Journal of the Mechanics and Physics of Solids*, **2011**, 59, 2382-2399	5	486
610	Nonlocal continuum theories of beams for the analysis of carbon nanotubes. *Journal of Applied Physics*, **2008**, 103, 023511	2.5	478
609	A new beam finite element for the analysis of functionally graded materials. *International Journal of Mechanical Sciences*, **2003**, 45, 519-539	5.5	424
608	Exact Solutions of Moderately Thick Laminated Shells. *Journal of Engineering Mechanics - ASCE*, **1984**, 110, 794-809	2.4	408

607	Nonlocal nonlinear formulations for bending of classical and shear deformation theories of beams and plates. *International Journal of Engineering Science*, **2010**, 48, 1507-1518	5.7	379
606	Modelling of thick composites using a layerwise laminate theory. *International Journal for Numerical Methods in Engineering*, **1993**, 36, 655-677	2.4	376
605	Theories and Computational Models for Composite Laminates. *Applied Mechanics Reviews*, **1994**, 47, 147-169	8.6	366
604	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	5.7	364
603	Vibration characteristics of functionally graded cylindrical shells under various boundary conditions. *Applied Acoustics*, **2000**, 61, 111-129	3.1	340
602	An Introduction to Nonlinear Finite Element Analysis **2004**,		326
601	Bending of Euler–Bernoulli beams using Eringen's integral formulation: A paradox resolved. *International Journal of Engineering Science*, **2016**, 99, 107-116	5.7	303
600	A refined hybrid plate theory for composite laminates with piezoelectric laminae. *International Journal of Solids and Structures*, **1995**, 32, 2345-2367	3.1	297
599	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	290
598	On laminated composite plates with integrated sensors and actuators. *Engineering Structures*, **1999**, 21, 568-593	4.7	286
597	Analysis of laminated composite plates using a higher-order shear deformation theory. *International Journal for Numerical Methods in Engineering*, **1985**, 21, 2201-2219	2.4	284
596	Axisymmetric bending of functionally graded circular and annular plates. *European Journal of Mechanics, A/Solids*, **1999**, 18, 185-199	3.7	279
595	Analysis of piezoelectrically actuated beams using a layer-wise displacement theory. *Computers and Structures*, **1991**, 41, 265-279	4.5	266
594	A higher order beam finite element for bending and vibration problems. *Journal of Sound and Vibration*, **1988**, 126, 309-326	3.9	262
593	A non-classical Mindlin plate model based on a modified couple stress theory. *Acta Mechanica*, **2011**, 220, 217-235	2.1	259
592	An evaluation of equivalent-single-layer and layerwise theories of composite laminates. *Composite Structures*, **1993**, 25, 21-35	5.3	254
591	A nonlinear modified couple stress-based third-order theory of functionally graded plates. *Composite Structures*, **2012**, 94, 1128-1143	5.3	241
590	On locking-free shear deformable beam finite elements. *Computer Methods in Applied Mechanics and Engineering*, **1997**, 149, 113-132	5.7	240

589	On refined computational models of composite laminates. *International Journal for Numerical Methods in Engineering*, **1989**, 27, 361-382	2.4	238
588	Three-dimensional thermomechanical deformations of functionally graded rectangular plates. *European Journal of Mechanics, A/Solids*, **2001**, 20, 841-855	3.7	230
587	A Review of Refined Theories of Laminated Composite Plates. *The Shock and Vibration Digest*, **1990**, 22, 3-17		227
586	Dynamic stability analysis of functionally graded cylindrical shells under periodic axial loading. *International Journal of Solids and Structures*, **2001**, 38, 1295-1309	3.1	218
585	A general non-linear third-order theory of plates with moderate thickness. *International Journal of Non-Linear Mechanics*, **1990**, 25, 677-686	2.8	213
584	Buckling and vibration of laminated composite plates using various plate theories. *AIAA Journal*, **1989**, 27, 1808-1817	2.1	204
583	Non-local elastic plate theories. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2007**, 463, 3225-3240	2.4	201
582	Free vibration analysis of laminated plates using a layerwise theory. *AIAA Journal*, **1993**, 31, 2335-2346	2.1	199
581	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	5.7	188
580	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	5.3	184
579	Modeling of delamination in composite laminates using a layer-wise plate theory. *International Journal of Solids and Structures*, **1991**, 28, 373-388	3.1	181
578	A penalty plate-bending element for the analysis of laminated anisotropic composite plates. *International Journal for Numerical Methods in Engineering*, **1980**, 15, 1187-1206	2.4	156
577	Large deformation analysis of functionally graded shells. *International Journal of Solids and Structures*, **2007**, 44, 2036-2052	3.1	155
576	A finite-element model for piezoelectric composite laminates. *Smart Materials and Structures*, **1997**, 6, 583-591	3.4	152
575	A plate bending element based on a generalized laminate plate theory. *International Journal for Numerical Methods in Engineering*, **1989**, 28, 2275-2292	2.4	151
574	Three-Dimensional Solutions of Smart Functionally Graded Plates. *Journal of Applied Mechanics, Transactions ASME*, **2001**, 68, 234-241	2.7	148
573	A unified integro-differential nonlocal model. *International Journal of Engineering Science*, **2015**, 95, 60-75	5.7	145
572	Bending, free vibration, and buckling of modified couples stress-based functionally graded porous micro-plates. *Composite Structures*, **2019**, 209, 879-888	5.3	145

571	Geometrically nonlinear transient analysis of laminated composite plates. *AIAA Journal*, **1983**, 21, 621-629	2.1	144
570	Tensor-based finite element formulation for geometrically nonlinear analysis of shell structures. *Computer Methods in Applied Mechanics and Engineering*, **2007**, 196, 1048-1073	5.7	143
569	A Nonclassical Reddy-Levinson Beam Model Based on a Modified Couple Stress Theory. *International Journal for Multiscale Computational Engineering*, **2010**, 8, 167-180	2.4	142
568	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	2.8	137
567	Harmonic reproducing kernel particle method for free vibration analysis of rotating cylindrical shells. *Computer Methods in Applied Mechanics and Engineering*, **2002**, 191, 4141-4157	5.7	134
566	The Finite Element Method in Heat Transfer and Fluid Dynamics		134
565	A comparison of closed-form and finite-element solutions of thick laminated anisotropic rectangular plates. *Nuclear Engineering and Design*, **1981**, 64, 153-167	1.8	133
564	Analysis of Timoshenko nanobeams with a nonlocal formulation and meshless method. *International Journal of Engineering Science*, **2011**, 49, 976-984	5.7	132
563	On nonconservativeness of Eringen□ nonlocal elasticity in beam mechanics: correction from a discrete-based approach. *Archive of Applied Mechanics*, **2014**, 84, 1275-1292	2.2	128
562	Layerwise partial mixed finite element analysis of magneto-electro-elastic plates. *Computers and Structures*, **2004**, 82, 1293-1301	4.5	128
561	Shear Deformation Plate and Shell Theories: From Stavsky to Present. *Mechanics of Advanced Materials and Structures*, **2004**, 11, 535-582	1.8	128
560	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	5.3	126
559	A new test methodology for evaluating scratch resistance of polymers. *Wear*, **2004**, 256, 1214-1227	3.5	126
558	Finite Element Analysis of Composite Laminates. *Solid Mechanics and Its Applications*, **1992**,	0.4	126
557	Thermo-electro-mechanical vibration of size-dependent piezoelectric cylindrical nanoshells under various boundary conditions. *Composite Structures*, **2014**, 116, 626-636	5.3	125
556	An exact solution for the bending of thin and thick cross-ply laminated beams. *Composite Structures* , **1997**, 37, 195-203	5.3	125
555	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	5.7	124
554	Winkler□asternak 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	10	124

553	Analytical solutions for bending, vibration, and buckling of FGM plates using a couple stress-based third-order theory. *Composite Structures*, **2013**, 103, 86-98	5.3	119
552	Thermoelastic Analysis of Functionally Graded Ceramic-Metal Cylinder. *Journal of Engineering Mechanics - ASCE*, **1999**, 125, 1259-1267	2.4	117
551	A refined mixed shear flexible finite element for the nonlinear analysis of laminated plates. *Computers and Structures*, **1986**, 22, 529-538	4.5	112
550	On penalty function methods in the finite-element analysis of flow problems. *International Journal for Numerical Methods in Fluids*, **1982**, 2, 151-171	1.9	111
549	Postbuckling analysis of functionally graded plates subject to compressive and thermal loads. *Computer Methods in Applied Mechanics and Engineering*, **2010**, 199, 1645-1653	5.7	110
548	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	5.7	104
547	Recent Studies on Buckling of Carbon Nanotubes. *Applied Mechanics Reviews*, **2010**, 63,	8.6	103
546	Spectral/hp least-squares finite element formulation for the Navier–Stokes equations. *Journal of Computational Physics*, **2003**, 190, 523-549	4.1	101
545	On the Generalization of Displacement-Based Laminate Theories. *Applied Mechanics Reviews*, **1989**, 42, S213-S222	8.6	99
544	Nonlinear theories of axisymmetric bending of functionally graded circular plates with modified couple stress. *Composite Structures*, **2012**, 94, 3664-3668	5.3	97
543	Space–time coupled spectral/hp least-squares finite element formulation for the incompressible Navier–Stokes equations. *Journal of Computational Physics*, **2004**, 197, 418-459	4.1	97
542	Nonlinear analysis of functionally graded microstructure-dependent beams. *Composite Structures*, **2013**, 98, 272-281	5.3	96
541	The elastic response of functionally graded cylindrical shells to low-velocity impact. *International Journal of Impact Engineering*, **1999**, 22, 397-417	4	95
540	An Introduction to Nonlinear Finite Element Analysis, 2nd Edn **2014**,		91
539	Multiscale approach for three-phase CNT/polymer/fiber laminated nanocomposite structures. *Polymer Composites*, **2019**, 40, E102	3	91
538	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	5.7	89
537	An accurate determination of stresses in thick laminates using a generalized plate theory. *International Journal for Numerical Methods in Engineering*, **1990**, 29, 1-14	2.4	88
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535	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	2.4	87
534	Eringen nonlocal theories of beams accounting for moderate rotations. *International Journal of Engineering Science*, **2014**, 82, 159-177	5.7	86
533	Dynamic (transient) analysis of layered anisotropic composite-material plates. *International Journal for Numerical Methods in Engineering*, **1983**, 19, 237-255	2.4	86
532	Analysis of laminated composite shells using a degenerated 3-D element. *International Journal for Numerical Methods in Engineering*, **1984**, 20, 1991-2007	2.4	86
531	EFFECTS OF SHEAR DEFORMATION AND ANISOTROPY ON THE THERMAL BENDING OF LAYERED COMPOSITE PLATES. *Journal of Thermal Stresses*, **1980**, 3, 475-493	2.2	86
530	A Variational Approach to Three-Dimensional Elasticity Solutions of Laminated Composite Plates. *Journal of Applied Mechanics, Transactions ASME*, **1992**, 59, S166-S175	2.7	85
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528	Active control of laminated cylindrical shells using piezoelectric fiber reinforced composites. *Composites Science and Technology*, **2005**, 65, 1226-1236	8.6	80
527	General two-dimensional theory of laminated cylindrical shells. *AIAA Journal*, **1990**, 28, 544-553	2.1	79
526	A non-classical third-order shear deformation plate model based on a modified couple stress theory. *Acta Mechanica*, **2013**, 224, 2699-2718	2.1	77
525	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	5.3	77
524	Three-dimensional thermal analysis of laminated composite plates. *International Journal of Solids and Structures*, **1995**, 32, 593-608	3.1	75
523	Large-deflection and large-amplitude free vibrations of laminated composite-material plates. *Computers and Structures*, **1981**, 13, 341-347	4.5	75
522	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	74
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520	Analysis of Mindlin micro plates with a modified couple stress theory and a meshless method. *Applied Mathematical Modelling*, **2013**, 37, 4626-4633	4.5	72
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518	Large amplitude flexural vibration of layered composite plates with cutouts. *Journal of Sound and Vibration*, **1982**, 83, 1-10	3.9	72

517	Finite element method parametric study on scratch behavior of polymers. *Journal of Polymer Science, Part B: Polymer Physics*, **2007**, 45, 1435-1447	2.6	70
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514	Relationships between bending solutions of classical and shear deformation beam theories. *International Journal of Solids and Structures*, **1997**, 34, 3373-3384	3.1	68
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511	VARIABLE KINEMATIC MODELLING OF LAMINATED COMPOSITE PLATES. *International Journal for Numerical Methods in Engineering*, **1996**, 39, 2283-2317	2.4	67
510	THERMAL STRESSES AND DEFLECTIONS OF CROSS-PLY LAMINATED PLATES USING REFINED PLATE THEORIES. *Journal of Thermal Stresses*, **1991**, 14, 419-438	2.2	66
509	Nonlinear Oscillations of Laminated, Anisotropic, Rectangular Plates. *Journal of Applied Mechanics, Transactions ASME*, **1982**, 49, 396-402	2.7	66
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507	Frequency of Functionally Graded Plates with Three-Dimensional Asymptotic Approach. *Journal of Engineering Mechanics - ASCE*, **2003**, 129, 896-900	2.4	65
506	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
505	Vibration and stability analyses of cross-ply laminated circular cylindrical shells. *Journal of Sound and Vibration*, **1992**, 157, 139-159	3.9	64
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503	A Review of the Literature On Finite-Element Modeling of Laminated Composite Plates. *The Shock and Vibration Digest*, **1985**, 17, 3-8		64
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501	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	4.7	62
500	Analysis of composite plates using various plate theories -Part 1: Formulation and analytical solutions. *Structural Engineering and Mechanics*, **1998**, 6, 583-612		61

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498	Bending of laminated anisotropic shells by a shear deformable finite element. *Fibre Science and Technology*, **1982**, 17, 9-24		60
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496	On vibration suppression of magnetostrictive beams. *Smart Materials and Structures*, **2000**, 9, 49-58	3.4	59
495	Non-linear progressive failure analysis of laminated composite plates. *International Journal of Non-Linear Mechanics*, **1995**, 30, 629-649	2.8	59
494	THERMOELASTICITY OF CIRCULAR CYLINDRICAL SHELLS LAMINATED OF BIMODULUS COMPOSITE MATERIALS. *Journal of Thermal Stresses*, **1981**, 4, 155-177	2.2	58
493	A NONLOCAL CURVED BEAM MODEL BASED ON A MODIFIED COUPLE STRESS THEORY. *International Journal of Structural Stability and Dynamics*, **2011**, 11, 495-512	1.9	57
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487	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	1.4	54
486	A semi-analytical finite element model for the analysis of cylindrical shells made of functionally graded materials. *Composite Structures*, **2009**, 91, 427-432	5.3	53
485	Postbuckling analysis of bi-axially compressed laminated nanocomposite plates using the first-order shear deformation theory. *Composite Structures*, **2016**, 152, 418-431	5.3	53
484	Superelastic and Shape Memory Effects in Laminated Shape-Memory-Alloy Beams. *AIAA Journal*, **2003**, 41, 100-109	2.1	52
483	Layer-wise shell theory for postbuckling of laminated circular cylindrical shells. *AIAA Journal*, **1992**, 30, 2148-2154	2.1	52
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477	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
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475	Dynamic stability of cross-ply laminated composite cylindrical shells. *International Journal of Mechanical Sciences*, **1998**, 40, 805-823	5.5	47
474	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	2.8	46
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464	Postbuckling behavior of bi-axially compressed arbitrarily straight-sided quadrilateral functionally graded material plates. *Computer Methods in Applied Mechanics and Engineering*, **2016**, 300, 593-610	5.7	43

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