

Vishesh Ranjan Kar

List of Publications by Year in descending order

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times ranked

535
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comprehensive Review on CNTs and CNT-Reinforced Composites: Syntheses, Characteristics and Applications. <i>Materials Today Communications</i> , 2020, 25, 101546.	1.9	116
2	Vibration analysis of functionally graded carbon nanotube reinforced composite plate in thermal environment. <i>Journal of Sandwich Structures and Materials</i> , 2016, 18, 151-173.	3.5	89
3	Nonlinear free vibration of functionally graded doubly curved shear deformable panels using finite element method. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 1935-1949.	2.6	46
4	Thermoelastic analysis of functionally graded doubly curved shell panels using nonlinear finite element method. <i>Composite Structures</i> , 2015, 129, 202-212.	5.8	45
5	Nonlinear flexural vibration of shear deformable functionally graded spherical shell panel. <i>Steel and Composite Structures</i> , 2015, 18, 693-709.	1.3	43
6	Nonlinear free vibration analysis of laminated composite doubly curved shell panel in hygrothermal environment. <i>Journal of Sandwich Structures and Materials</i> , 2015, 17, 511-545.	3.5	39
7	Large Amplitude Vibration Analysis of Laminated Composite Spherical Panels Under Hygrothermal Environment. <i>International Journal of Structural Stability and Dynamics</i> , 2016, 16, 1450105.	2.4	39
8	Free vibration responses of temperature dependent functionally graded curved panels under thermal environment. <i>Latin American Journal of Solids and Structures</i> , 2015, 12, 2006-2024.	1.0	37
9	Geometrical nonlinear free vibration analysis of FGM spherical panel under nonlinear thermal loading with TD and TID properties. <i>Journal of Thermal Stresses</i> , 2016, 39, 942-959.	2.0	37
10	Nonlinear hygro-thermo-elastic vibration analysis of doubly curved composite shell panel using finite element micromechanical model. <i>Mechanics of Advanced Materials and Structures</i> , 2016, 23, 1343-1359.	2.6	36
11	Post-buckling behaviour of shear deformable functionally graded curved shell panel under edge compression. <i>International Journal of Mechanical Sciences</i> , 2016, 115-116, 318-324.	6.7	36
12	Nonlinear thermoelastic deflection of temperature-dependent FGM curved shallow shell under nonlinear thermal loading. <i>Journal of Thermal Stresses</i> , 2017, 40, 1184-1199.	2.0	35
13	Geometrically nonlinear flexural analysis of hygro-thermo-elastic laminated composite doubly curved shell panel. <i>International Journal of Mechanics and Materials in Design</i> , 2016, 12, 153-171.	3.0	32
14	Thermal buckling behaviour of shear deformable functionally graded single/doubly curved shell panel with TD and TID properties. <i>Advances in Materials Research (South Korea)</i> , 2016, 5, 205-221.	0.6	28
15	Large deformation bending analysis of functionally graded spherical shell using FEM. <i>Structural Engineering and Mechanics</i> , 2015, 53, 661-679.	1.0	28
16	Nonlinear thermomechanical deformation behaviour of P-FGM shallow spherical shell panel. <i>Chinese Journal of Aeronautics</i> , 2016, 29, 173-183.	5.3	26
17	Nonlinear Flexural Analysis of Laminated Composite Panel Under Hygro-Thermo-Mechanical Loading "A Micromechanical Approach". <i>International Journal of Computational Methods</i> , 2016, 13, 1650015.	1.3	25
18	Effect of different temperature load on thermal postbuckling behaviour of functionally graded shallow curved shell panels. <i>Composite Structures</i> , 2017, 160, 1236-1247.	5.8	25

#	ARTICLE	IF	CITATIONS
19	Large-Amplitude Vibration of Functionally Graded Doubly-Curved Panels Under Heat Conduction. AIAA Journal, 2017, 55, 4376-4386.	2.6	21
20	Nonlinear Thermomechanical Behavior of Functionally Graded Material Cylindrical/Hyperbolic/Elliptical Shell Panel With Temperature-Dependent and Temperature-Independent Properties. Journal of Pressure Vessel Technology, Transactions of the ASME, 2016, 138, .	0.6	17
21	Large amplitude bending behaviour of laminated composite curved panels. Engineering Computations, 2016, 33, 116-138.	1.4	17
22	Deformation characteristics of sinusoidally-corrugated laminated composite panel " A higher-order finite element approach. Composite Structures, 2019, 216, 151-158.	5.8	16
23	Postbuckling analysis of shear deformable FG shallow spherical shell panel under nonuniform thermal environment. Journal of Thermal Stresses, 2017, 40, 25-39.	2.0	15
24	Nonlinear flexural analysis of laminated composite flat panel under hygro-thermo-mechanical loading. Steel and Composite Structures, 2015, 19, 1011-1033.	1.3	15
25	Free vibration response of P-FGM and S-FGM sandwich shell panels: A comparison. Materials Today: Proceedings, 2020, 28, 1701-1705.	1.8	11
26	Geometrically nonlinear large-deflection analysis of heated functionally graded composite panels with single and multiple perforations. Mechanics of Advanced Materials and Structures, 2023, 30, 4329-4346.	2.6	10
27	Flexural Behavior of Perforated Functionally Graded Composite Panels under Complex Loading Conditions: Higher-Order Finite-Element Approach. Journal of Aerospace Engineering, 2021, 34, .	1.4	8
28	Effect of material heterogeneity on the deformation behaviour of multidirectional (1D/2D/3D) functionally graded composite panels. Engineering Computations, 2021, 38, 3325-3350.	1.4	7
29	Blast analysis of functionally graded sandwich plates. Materials Today: Proceedings, 2021, 46, 7871-7874.	1.8	5
30	Free vibration of functionally graded conical shell. Materials Today: Proceedings, 2018, 5, 14302-14308.	1.8	4
31	Natural Fiber Composite for Structural Applications. , 2021, , 23-35.		4
32	Experimental Characterization for Natural Fiber and Hybrid Composites. , 2021, , 71-83.		4
33	Effect of porosity and skew edges on transient response of functionally graded sandwich plates. Journal of Strain Analysis for Engineering Design, 2023, 58, 38-55.	1.8	4
34	Bending analysis of sandwich shell panels with exponentially graded core. Materials Today: Proceedings, 2020, 28, 1706-1708.	1.8	3
35	Nonlinear transient analysis of porous functionally graded material plates under blast loading. Materials Today: Proceedings, 2021, 46, 8111-8113.	1.8	2
36	Transient analyses of FGM sandwich cylindrical shell panels under air-blast load. AIP Conference Proceedings, 2021, , .	0.4	2

#	ARTICLE	IF	CITATIONS
37	Free Vibration Responses of Functionally Graded Spherical Shell Panels Using Finite Element Method. , 2013, , .		1
38	Effect of temperature on stability behaviour of functionally graded spherical panel. IOP Conference Series: Materials Science and Engineering, 2015, 75, 012014.	0.6	1
39	Nonlinear Finite Element Solution of Post-buckling Responses of FGM Panel Structure under Elevated Thermal Load and TD and TID Properties. MATEC Web of Conferences, 2017, 109, 05005.	0.2	1
40	Free vibration behavior of laminated composite panel with center circular cutout. AIP Conference Proceedings, 2021, , .	0.4	1
41	Eigenfrequencies of functionally graded (Ti-6Al-4V/Si3N4) conical panel under thermal environment. AIP Conference Proceedings, 2021, , .	0.4	1
42	Free Vibration Behavior of Carbon Nanotube Reinforced Composite Conical Shell Panel Under Thermal Environment. Advanced Science Letters, 2018, 24, 5915-5918.	0.2	1
43	Free vibration behavior of corrugated functionally graded composite panel. Materials Today: Proceedings, 2020, 22, 2957-2963.	1.8	0
44	Effect of Perforation on the Bending Behavior of Temperature-Dependent Carbon Nanotube Reinforced Composite Plate. Advanced Science Letters, 2018, 24, 5919-5922.	0.2	0
45	Modeling and Analysis of Functionally Graded Biocomposite Plate Structure Using Higher-Order Kinematics. , 2021, , 9-21.		0
46	Damage Characterization of Composite Stiffened Panel Subjected to Low Velocity Impact. , 2021, , 37-50.		0