

P Jeyaraj

List of Publications by Year in descending order

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98
papers

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citations

236612

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docs citations

99
times ranked

1192
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergy of fiber length and content on free vibration and damping behavior of natural fiber reinforced polyester composite beams. <i>Materials & Design</i> , 2014, 56, 379-386.	5.1	146
2	Vibration and acoustic response of a composite plate with inherent material damping in a thermal environment. <i>Journal of Sound and Vibration</i> , 2009, 320, 322-338.	2.1	123
3	Influence of redmud on the mechanical, damping and chemical resistance properties of banana/polyester hybrid composites. <i>Materials & Design</i> , 2014, 64, 270-279.	5.1	98
4	Vibration and Acoustic Response of an Isotropic Plate in a Thermal Environment. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2008, 130, .	1.0	86
5	Free Vibration Characteristics of Banana/Sisal Natural Fibers Reinforced Hybrid Polymer Composite Beam. <i>Procedia Engineering</i> , 2016, 144, 1055-1059.	1.2	86
6	Dynamic mechanical analysis and free vibration behavior of intra-ply woven natural fiber hybrid polymer composite. <i>Journal of Reinforced Plastics and Composites</i> , 2016, 35, 228-242.	1.6	79
7	Dynamic mechanical analysis and free vibration behavior in chemical modifications of coconut sheath/nano-clay reinforced hybrid polyester composite. <i>Journal of Composite Materials</i> , 2013, 47, 3105-3121.	1.2	76
8	Sound radiation and transmission loss characteristics of a honeycomb sandwich panel with composite facings: Effect of inherent material damping. <i>Journal of Sound and Vibration</i> , 2016, 383, 221-232.	2.1	68
9	Mechanical Properties of Natural Fiber Braided Yarn Woven Composite: Comparison with Conventional Yarn Woven Composite. <i>Journal of Bionic Engineering</i> , 2017, 14, 141-150.	2.7	58
10	Experimental investigation on buckling and free vibration behavior of woven natural fiber fabric composite under axial compression. <i>Composite Structures</i> , 2017, 163, 302-311.	3.1	58
11	Mechanical and free vibration properties of montmorillonite clay dispersed with naturally woven coconut sheath composite. <i>Journal of Reinforced Plastics and Composites</i> , 2012, 31, 1364-1376.	1.6	53
12	Influence of nature of core on vibro acoustic behavior of sandwich aerospace structures. <i>Aerospace Science and Technology</i> , 2016, 56, 155-167.	2.5	52
13	Buckling and vibration behaviour of syntactic foam core sandwich beam with natural fiber composite facings under axial compressive loads. <i>Composites Part B: Engineering</i> , 2019, 175, 107133.	5.9	51
14	Vibro-acoustic response and sound transmission loss characteristics of truss core sandwich panel filled with foam. <i>Aerospace Science and Technology</i> , 2018, 78, 1-11.	2.5	50
15	Mechanical behavior of woven natural fiber fabric composites: Effect of weaving architecture, intra-ply hybridization and stacking sequence of fabrics. <i>Journal of Industrial Textiles</i> , 2018, 47, 938-959.	1.1	46
16	Tensile, impact, and vibration properties of coconut sheath/sisal hybrid composites: Effect of stacking sequence. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 1802-1812.	1.6	45
17	Dynamic mechanical and free vibration behavior of natural fiber braided fabric composite: Comparison with conventional and knitted fabric composites. <i>Polymer Composites</i> , 2018, 39, 2479-2489.	2.3	44
18	Sound transmission loss characteristics of sandwich aircraft panels: Influence of nature of core. <i>Journal of Sandwich Structures and Materials</i> , 2017, 19, 26-48.	2.0	42

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19	Effect of montmorillonite nanoclay on temperature dependence mechanical properties of naturally woven coconut sheath/polyester composite. <i>Journal of Reinforced Plastics and Composites</i> , 2013, 32, 811-822.	1.6	41
20	Bending and free vibration analysis of foam-filled truss core sandwich panel. <i>Journal of Sandwich Structures and Materials</i> , 2018, 20, 617-638.	2.0	40
21	Buckling and Free Vibration of Nonuniformly Heated Functionally Graded Carbon Nanotube Reinforced Polymer Composite Plate. <i>International Journal of Structural Stability and Dynamics</i> , 2017, 17, 1750064.	1.5	38
22	BUCKLING AND FREE VIBRATION BEHAVIOR OF AN ISOTROPIC PLATE UNDER NONUNIFORM THERMAL LOAD. <i>International Journal of Structural Stability and Dynamics</i> , 2013, 13, 1250071.	1.5	34
23	Vibro-acoustic behavior of an isotropic plate with arbitrarily varying thickness. <i>European Journal of Mechanics, A/Solids</i> , 2010, 29, 1088-1094.	2.1	31
24	Acoustic behaviour of 3D printed bio-degradable micro-perforated panels with varying perforation cross-sections. <i>Applied Acoustics</i> , 2021, 174, 107769.	1.7	30
25	Structural optimization of rotating tapered laminated thick composite plates with ply drop-offs. <i>International Journal of Mechanics and Materials in Design</i> , 2017, 13, 85-124.	1.7	28
26	Mechanical behavior of 3D printed syntactic foam composites. <i>Composite Structures</i> , 2020, 254, 112832.	3.1	28
27	Stability and dynamic behavior of porous FGM beam: influence of graded porosity, graphene platelets, and axially varying loads. <i>Engineering With Computers</i> , 2022, 38, 4347-4366.	3.5	25
28	Bending, buckling and free vibration characteristics of FG-CNT-reinforced polymer composite beam under non-uniform thermal load. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2015, 229, 13-28.	0.7	24
29	Snap-through buckling of fly ash cenosphere/epoxy syntactic foams under thermal environment. <i>Thin-Walled Structures</i> , 2018, 131, 417-427.	2.7	24
30	Dynamic impact behavior of syntactic foam core sandwich composites. <i>Journal of Composite Materials</i> , 2020, 54, 535-547.	1.2	24
31	Influence of textile properties on dynamic mechanical behavior of epoxy composite reinforced with woven sisal fabrics. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2020, 45, 1.	0.8	24
32	Mechanical characterization of natural fiber intra-ply fabric polymer composites: Influence of chemical modifications. <i>Journal of Reinforced Plastics and Composites</i> , 2017, 36, 1651-1664.	1.6	23
33	Free vibration and stability of graphene platelet reinforced porous nano-composite cylindrical panel: Influence of grading, porosity and non-uniform edge loads. <i>Engineering Structures</i> , 2021, 230, 111670.	2.6	23
34	Vibro-acoustics response of an isotropic plate under non-uniform edge loading: An analytical investigation. <i>Aerospace Science and Technology</i> , 2020, 105, 106052.	2.5	22
35	VIBRO-ACOUSTIC RESPONSE OF A CIRCULAR ISOTROPIC CYLINDRICAL SHELL UNDER A THERMAL ENVIRONMENT. <i>International Journal of Applied Mechanics</i> , 2011, 03, 525-541.	1.3	21
36	Mechanical, Dynamic Mechanical and Vibration Behavior of Nanoclay Dispersed Natural Fiber Hybrid Intra-ply Woven Fabric Composite. <i>Engineering Materials</i> , 2016, , 281-296.	0.3	21

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37	Vibration analysis of a tapered laminated thick composite plate with ply drop-offs. <i>Archive of Applied Mechanics</i> , 2015, 85, 969-990.	1.2	20
38	Influence of axial compressive loads on buckling and free vibration response of surface-modified fly ash cenosphere/epoxy syntactic foams. <i>Journal of Composite Materials</i> , 2018, 52, 2621-2630.	1.2	20
39	Effect of axial compression on dynamic response of concurrently printed sandwich. <i>Composite Structures</i> , 2021, 259, 113223.	3.1	20
40	Tribological behaviour of natural fibre 3D braided woven fabric reinforced PLA composites. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2021, 235, 1353-1364.	1.0	20
41	Experimental investigation on buckling strength of cylindrical panel: Effect of non-uniform temperature field. <i>International Journal of Non-Linear Mechanics</i> , 2018, 99, 247-257.	1.4	19
42	Buckling of non-uniformly heated isotropic beam: Experimental and theoretical investigations. <i>Thin-Walled Structures</i> , 2016, 108, 245-255.	2.7	18
43	Acoustic response behavior of porous 3D graphene foam plate. <i>Applied Acoustics</i> , 2020, 169, 107431.	1.7	18
44	Acoustic radiation and transmission loss of FG-Graphene composite plate under nonuniform edge loading. <i>European Journal of Mechanics, A/Solids</i> , 2021, 88, 104249.	2.1	18
45	Static Behavior of FG-CNT Polymer Nano Composite Plate under Elevated Non-uniform Temperature Fields. <i>Procedia Engineering</i> , 2013, 64, 825-834.	1.2	17
46	Effect of thermal loading on syntactic foam sandwich composite. <i>Polymer Composites</i> , 2020, 41, 1774-1784.	2.3	17
47	Mechanical and dynamic mechanical behaviour of novel glassâ€“natural fibre intra-ply woven polyester composites. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2017, 42, 1215-1223.	0.8	16
48	Characterization and mechanical properties of sisal fabric reinforced polyvinyl alcohol green composites: effect of composition and loading direction. <i>Materials Research Express</i> , 2019, 6, 125320.	0.8	16
49	Analytical investigation on free vibration frequencies of polymer nano composite plate: Effect of graphene grading and non-uniform edge loading. <i>Materials Today Communications</i> , 2020, 24, 100910.	0.9	16
50	Fracture toughness of flax braided yarn woven PLA composites. <i>International Journal of Polymer Analysis and Characterization</i> , 2021, 26, 364-379.	0.9	14
51	Sound absorption and transmission loss characteristics of 3D printed bio-degradable material with graded spherical perforations. <i>Applied Acoustics</i> , 2022, 186, 108457.	1.7	14
52	A semi-analytical nonlocal elasticity model for static stability and vibration behaviour of agglomerated CNTs reinforced nano cylindrical panel under non-uniform edge loads. <i>Applied Mathematical Modelling</i> , 2022, 103, 68-90.	2.2	13
53	Static deflection and thermal stress analysis of non-uniformly heated tapered composite laminate plates with ply drop-off. <i>Structures</i> , 2018, 15, 307-319.	1.7	12
54	Fabrication and mechanical properties of braided flax fabric polylactic acid bio-composites. <i>Journal of the Textile Institute</i> , 2022, 113, 833-845.	1.0	12

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55	Dynamic behavior of concurrently printed functionally graded closed cell foams. Composite Structures, 2021, 275, 114449.	3.1	12
56	Static stability and free vibration characteristics of a micro laminated beam under varying axial load using modified couple stress theory and Ritz method. Composite Structures, 2022, 281, 115028.	3.1	12
57	Effect of fibre length and weight percentage on mechanical properties of short sisal/polyester composite. International Journal of Computer Aided Engineering and Technology, 2015, 7, 60.	0.1	11
58	Dynamic mechanical analysis of glutaraldehyde cross linked polyvinyl alcohol under tensile mode. AIP Conference Proceedings, 2019, , .	0.3	11
59	Buckling and vibration behavior of a non-uniformly heated isotropic cylindrical panel. Structural Engineering and Mechanics, 2016, 57, 543-567.	1.0	11
60	Static stability and vibration behavior of graphene platelets reinforced porous sandwich cylindrical panel under non-uniform edge loads using semi-analytical approach. Composite Structures, 2022, 280, 114837.	3.1	11
61	Buckling and Free Vibration Characteristics of a Uniformly Heated Isotropic Cylindrical Panel. Procedia Engineering, 2016, 144, 474-481.	1.2	10
62	Buckling and Free Vibration Behavior of a Temperature Dependent FG-CNTRC Cylindrical Panel Under Thermal Load. Materials Today: Proceedings, 2018, 5, 23682-23691.	0.9	10
63	Nonuniform Heat Effects on Buckling of Laminated Composite Beam: Experimental Investigations. International Journal of Structural Stability and Dynamics, 2018, 18, 1850153.	1.5	10
64	Buckling and dynamic characteristics of a laminated cylindrical panel under non-uniform thermal load. Steel and Composite Structures, 2016, 22, 1359-1389.	1.3	10
65	Effect of Core Topology on Vibro-acoustic Characteristics of Truss Core Sandwich Panels. Procedia Engineering, 2016, 144, 1397-1402.	1.2	9
66	Dynamic and buckling response modelling of functionally graded graphene oxide powder(GOP) reinforced cylindrical panels : Influence of GOP grading and non-uniformly, partially distributed edge loads.. Structures, 2022, 40, 840-854.	1.7	8
67	Vibro-acoustic behavior of functionally graded carbon nanotube reinforced polymer nanocomposite plates. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2018, 232, 566-581.	0.7	7
68	Effect of stacking sequence on mechanical properties neem wood veneer plastic composites. AIP Conference Proceedings, 2018, , .	0.3	7
69	A novel approach to determine the thermal transition of gum powder/hydro-gels using dynamic mechanical analysis. , 2018, , .		7
70	Free vibration modes of rectangular plate under non-uniform heating: An experimental investigation. Structures, 2020, 28, 1802-1817.	1.7	7
71	Numerical and experimental study on dynamic characteristics of honeycomb core sandwich panel from equivalent 2D model. Sadhana - Academy Proceedings in Engineering Sciences, 2020, 45, 1.	0.8	7
72	Mechanical and Tribological Behavior of Woven Sisal Fabric. Tribology in Industry, 2019, 41, 622-633.	0.5	7

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73	Thermal buckling of braided flax woven polylactic acid composites. Journal of Reinforced Plastics and Composites, 2021, 40, 261-272.	1.6	6
74	Buckling Behavior of Non-Uniformly Heated Tapered Laminated Composite Plates with Ply Drop-Off. International Journal of Structural Stability and Dynamics, 2018, 18, 1850059.	1.5	5
75	Thermal buckling of sisal and glass hybrid woven composites: Experimental investigation. Composites Part C: Open Access, 2020, 2, 100012.	1.5	5
76	Analytical Solution for Sound Radiation Characteristics of Graphene Nanocomposites Plate: Effect of Porosity and Variable Edge Load. International Journal of Structural Stability and Dynamics, 2021, 21, 2150087.	1.5	5
77	Stability and dynamic behaviour of bi-directional functionally graded beam subjected to variable axial load. Materials Today Communications, 2022, 32, 104043.	0.9	5
78	Biodegradation properties and thermogravimetric analysis of 3D braided flax PLA textile composites. Journal of Industrial Textiles, 2022, 51, 1066S-1091S.	1.1	4
79	An exact solution for vibro-acoustic response of smart sandwich panels with MEE composite Layer. Composite Structures, 2022, 286, 115201.	3.1	4
80	Vibro-acoustic behaviour of functionally graded graphene reinforced polymer nanocomposites. AIP Conference Proceedings, 2020, , .	0.3	3
81	Buckling and Free Vibration Behavior of Cenosphere/Epoxy Syntactic Foams under Axial Compressive Loading. Materials Performance and Characterization, 2018, 7, 532-546.	0.2	3
82	An exact solution for vibro-acoustic response of MEE composite plate. Thin-Walled Structures, 2022, 179, 109598.	2.7	3
83	Modal analysis of cylindrical panels at elevated temperatures under nonuniform heating conditions: Experimental investigation. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 812-828.	1.1	2
84	Effect of porosity and profile axial loading on elastic buckling and free vibration of functionally graded porous beam.. IOP Conference Series: Materials Science and Engineering, 2021, 1128, 012025.	0.3	2
85	Buckling and Free Vibration of Porous Functionally Graded Metal Ceramic Beams under Thermal and Mechanical Loading: A Comparative Study. Journal of the Institution of Engineers (India): Series C, 2021, 102, 1107-1117.	0.7	2
86	Experimental and numerical investigation on sound absorption characteristics of 3D printed coupled-cavity integrated passive element systems. Journal of Low Frequency Noise Vibration and Active Control, 2022, 41, 60-73.	1.3	2
87	Acoustic fluidâ€“structure study of 2D cavity with composite curved flexible walls using graphene platelets reinforcement by higher-order finite element approach. Composite Structures, 2021, 272, 114180.	3.1	2
88	A comprehensive damping study of variable stiffness composite rectangular/skew laminates reinforcement with curvilinear fibers by higher-order shear flexible model. Mechanics of Advanced Materials and Structures, 2023, 30, 2806-2825.	1.5	2
89	Buckling and free vibration behavior of cylindrical panel under thermal load: Influence of graphene grading. AIP Conference Proceedings, 2018, , .	0.3	1
90	Comparative study of natural fibre 3D braided yarn woven fabric and simply twisted yarn woven fabric reinforced epoxy composites. AIP Conference Proceedings, 2020, , .	0.3	1

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91	Numerical Analysis on Vibro-Acoustic Behavior of Honeycomb Core Sandwich Structure with FG-CNT-Reinforced Polymer Composite Facings. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2022, 46, 943-956.	0.8	1
92	Thermal buckling and vibro-acoustic behaviour of functionally graded graphene polymer layered composites subjected to in-plane temperature variance. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 0, , 146442072210751.	0.7	1
93	Optimization of buckling strength and fundamental frequency of uniformly heated cylindrical panel using PSO. , 2016, , .		0
94	Experimental investigation on stability and dynamic behaviour of laminated composite beam. AIP Conference Proceedings, 2018, , .	0.3	0
95	Newtonian approach towards mathematical modelling and tuning of a Continuously Variable Transmission. IOP Conference Series: Materials Science and Engineering, 2019, 624, 012020.	0.3	0
96	Free vibration and inherent material damping characteristics of boron-FRP plate: influence of non-uniform uniaxial edge loads. International Journal for Simulation and Multidisciplinary Design Optimization, 2021, 12, 18.	0.6	0
97	Effect of lamination schemes on natural frequency and modal damping of fiber reinforced laminated beam using Ritz method. International Journal for Simulation and Multidisciplinary Design Optimization, 2021, 12, 15.	0.6	0
98	Free Vibration of Flax Braided Fabric PLA Beam under Edge Compression. Journal of Natural Fibers, 0, , 1-14.	1.7	0