

Vasudevan Rajamohan

List of Publications by Year in descending order

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54
papers

931
citations

516710

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501196

28
g-index

55
all docs

55
docs citations

55
times ranked

608
citing authors

#	ARTICLE	IF	CITATIONS
1	4D printing of materials for the future: Opportunities and challenges. Applied Materials Today, 2020, 18, 100490.	4.3	134
2	Vibration analysis of a multi-layer beam containing magnetorheological fluid. Smart Materials and Structures, 2010, 19, 015013.	3.5	96
3	Vibration analysis of a partially treated multi-layer beam with magnetorheological fluid. Journal of Sound and Vibration, 2010, 329, 3451-3469.	3.9	95
4	Optimal vibration control of beams with total and partial MR-fluid treatments. Smart Materials and Structures, 2011, 20, 115016.	3.5	43
5	Structural optimization of tapered composite sandwich plates partially treated with magnetorheological elastomers. Composite Structures, 2018, 200, 258-276.	5.8	38
6	Optimum design of a multilayer beam partially treated with magnetorheological fluid. Smart Materials and Structures, 2010, 19, 065002.	3.5	36
7	Vibration analysis of a partially treated laminated composite magnetorheological fluid sandwich plate. JVC/Journal of Vibration and Control, 2016, 22, 869-895.	2.6	36
8	Finite Element Vibration Analysis of a Magnetorheological Fluid Sandwich Beam. Procedia Engineering, 2013, 64, 603-612.	1.2	28
9	Structural optimization of rotating tapered laminated thick composite plates with ply drop-offs. International Journal of Mechanics and Materials in Design, 2017, 13, 85-124.	3.0	28
10	Vibration analysis of rotating delaminated non-uniform composite plates. Aerospace Science and Technology, 2017, 60, 172-182.	4.8	28
11	Dynamic characterization of tapered laminated composite sandwich plates partially treated with magnetorheological elastomer. Journal of Sandwich Structures and Materials, 2018, 20, 308-350.	3.5	24
12	4D printed stereolithography printed plant-based sustainable polymers: Preliminary investigation and optimization. Journal of Applied Polymer Science, 2021, 138, 50903.	2.6	22
13	Vibration analysis of a multifunctional hybrid composite honeycomb sandwich plate. Journal of Sandwich Structures and Materials, 2020, 22, 2818-2860.	3.5	21
14	Vibration analysis of a tapered laminated thick composite plate with ply drop-offs. Archive of Applied Mechanics, 2015, 85, 969-990.	2.2	20
15	Dynamic characterization and parametric instability analysis of rotating magnetorheological fluid composite sandwich plate subjected to periodic in-plane loading. Journal of Sandwich Structures and Materials, 2019, 21, 2099-2126.	3.5	20
16	Material and Mechanical Characterization of Multi-Functional Carbon Nanotube Reinforced Hybrid Composite Materials. Experimental Techniques, 2019, 43, 301-314.	1.5	18
17	Numerical Analysis of Low Velocity Impact on Laminated Composite Plates. Procedia Engineering, 2013, 64, 1089-1098.	1.2	16
18	Dynamic characterization of thickness tapered laminated composite plates. JVC/Journal of Vibration and Control, 2016, 22, 3555-3575.	2.6	15

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19	Dynamic characterization of CNT-reinforced hybrid polymer composite beam under elevated temperature—an experimental study. <i>Polymer Composites</i> , 2019, 40, 464-470.	4.6	15
20	Prediction of Progressive Ply Failure of Laminated Composite Structures: A Review. <i>Archives of Computational Methods in Engineering</i> , 2017, 24, 841-853.	10.2	13
21	Nonlinear flexural free vibrations of size-dependent graphene platelets reinforced curved nano/micro beams by finite element approach coupled with trigonometric shear flexible theory. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 2489-2515.	2.6	12
22	Investigations on crush behavior and energy absorption characteristics of GFRP composite conical frusta with a cutout under axial compression loading. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 5360-5377.	2.6	12
23	Dynamic instability analysis of rotating delaminated tapered composite plates subjected to periodic in-plane loading. <i>Archive of Applied Mechanics</i> , 2016, 86, 1965-1986.	2.2	11
24	Dynamic characterization of a flexible internally damped spinning shaft with constant eccentricity. <i>Archive of Applied Mechanics</i> , 2017, 87, 1769-1779.	2.2	10
25	Assessment of dynamic properties of hybrid ribbon reinforced multifunctional composite sandwich plates: Numerical and experimental investigation. <i>Thin-Walled Structures</i> , 2019, 145, 106365.	5.3	10
26	Recent developments in investigation on buckling and post buckling responses of laminated composite shells. <i>Polymer Composites</i> , 2018, 39, 4231-4242.	4.6	9
27	Dynamic Characterization and Parametric Instability Analysis of Rotating Tapered Composite Plates Under Periodic In-Plane Loading. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2019, 43, 155-176.	1.3	8
28	Interlaminar shear stresses in laminated composite plates under thermal and mechanical loading. <i>Mechanics of Advanced Materials and Structures</i> , 2016, 23, 554-564.	2.6	7
29	Primary and Secondary Instability Region Analysis of Rotating Carbon Nanotube-Reinforced Non-Uniform Hybrid Composite Plates. <i>International Journal of Structural Stability and Dynamics</i> , 2019, 19, 1950115.	2.4	7
30	Dynamic Characterization of a Bistable Energy Harvester Under Gaussian White Noise for Larger Time Constant. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 721-730.	3.0	7
31	Free vibration modes of rectangular plate under non-uniform heating: An experimental investigation. <i>Structures</i> , 2020, 28, 1802-1817.	3.6	7
32	Nonlinear buckling analysis of a semi-elliptical dome: Numerical and experimental investigations. <i>Thin-Walled Structures</i> , 2022, 171, 108708.	5.3	7
33	Dynamic characterization of tapered composite sandwich plate with honeycomb core: Numerical and experimental investigations. <i>Thin-Walled Structures</i> , 2022, 178, 109515.	5.3	7
34	Segment optimization of a rotating multilayer sandwich beam. <i>Journal of Sandwich Structures and Materials</i> , 2014, 16, 148-172.	3.5	6
35	Finite element vibration analysis of rotating laminated composite beam with varying cross-section using HSDT. <i>International Journal on Interactive Design and Manufacturing</i> , 2017, 11, 703-712.	2.2	6
36	Sustainable Sandwich Composites Manufactured from Recycled Carbon Fibers, Flax Fibers/PP Skins, and Recycled PET Core. <i>Journal of Composites Science</i> , 2021, 5, 2.	3.0	6

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37	MR Damper Characterization for Implementation of Semi-active Suspension Control. Indian Journal of Science and Technology, 2016, 9, .	0.7	5
38	Numerical investigation of dynamic instability of a rotating CNT reinforced composite plate. AIP Conference Proceedings, 2019, , .	0.4	5
39	Enhancement of low cycle vibration induced fatigue life of composite beam having central hole using CNT reinforcement: An experimental study. Mechanics of Advanced Materials and Structures, 2020, 27, 2059-2067.	2.6	5
40	Investigation on Semi-active Suspension System for Multi-axle Armoured Vehicle using Co-simulation. Defence Science Journal, 2017, 67, 269.	0.8	5
41	Structuralâ€“Acoustic Response Analysis of Variable Stiffness Laminates with Inherent Material Damping. International Journal of Structural Stability and Dynamics, 2022, 22, .	2.4	5
42	Investigation on thermal buckling analysis of jute/epoxy polymer matrix composites. Emerging Materials Research, 2020, 9, 1229-1236.	0.7	4
43	Investigation on interlaminar shear stresses in laminated composite beam under thermal and mechanical loading. Steel and Composite Structures, 2015, 18, 583-601.	1.3	4
44	Optimal Response Prediction of Composite Honeycomb Sandwich Plate: Theoretical and Experimental Verification. International Journal of Applied Mechanics, 2022, 14, .	2.2	4
45	Dynamic Characterization of Non-Homogeneous Magnetorheological Fluids Based Multi-Layer Beam. Applied Mechanics and Materials, 0, 110-116, 105-112.	0.2	3
46	Design and analysis of a centrifugal absorber for suppression of helicopter blade vibration. International Journal of Structural Engineering, 2014, 5, 24.	0.4	3
47	Influence of surface roughness and ZDDP additive on the friction and wear of reciprocating sliding surfaces at high contact pressures. Industrial Lubrication and Tribology, 2017, 69, 738-749.	1.3	2
48	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.	2.1	2
49	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.	5.8	2
50	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.	2.6	2
51	Analysis of Partially Treated Multi-Layer Beam With Magnetorheological Fluid. , 2009, , .		1
52	Evaluation of shear properties of carbon nanotube reinforced functionally graded honeycomb composite materials. AIP Conference Proceedings, 2019, , .	0.4	1
53	Optimal Location of the MR Fluid Segments in the Partially Treated Magnetorheological Fluid Sandwich Beam. , 2010, , .		0
54	Investigation on Interlaminar Shear Stresses in Laminated Composite Plates under Thermal and Mechanical Loading. Applied Mechanics and Materials, 0, 592-594, 451-455.	0.2	0