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Scholar Index: <http://scholar.google.com/citations?user=moQqm3oAAAAJ&hl=en>

PUBLICATION DETAILS

1. CM Twinkle, J Pitchaimani, V Rajamohan(2020),"Free vibration modes of rectangular plate under non-uniform heating: An experimental investigation" Structures 28, 1802-1817
2. MP Arunkumar, J Pitchaimani, KV Gangadharan, CVSN REDDY(2020), "Numerical and experimental study on dynamic characteristics of honeycomb core sandwich panel from equivalent 2D model" Sādhanā 45 (1), 1-6
3. A Kumar, V Gunasekaran, J Pitchaimani(2020), "Acoustic response behavior of porous 3D graphene foam plate" Applied Acoustics 169, 107431
4. M Nagamadhu, P Jeyaraj, GCM Kumar(2020), "Influence of textile properties on dynamic mechanical behavior of epoxy composite reinforced with woven sisal fabrics" Sādhanā 45 (1), 1-10
5. HS Bharath, S Waddar, SI Bekinal, P Jeyaraj, M Doddamani(2020), "Effect of axial compression on dynamic response of concurrently printed sandwich" Composite Structures, 113223
6. A Gilorkar, R Murugan, J Pitchaimani (2020), "Thermal buckling of sisal and glass hybrid woven composites: Experimental investigation" Composites Part C: Open Access 2, 100012
7. V Gunasekaran, J Pitchaimani, LBM Chinnapandi(2020), "Vibro-acoustics response of an isotropic plate under non-uniform edge loading: An analytical investigation" Aerospace Science and Technology 105, 106052
8. S Kanakannavar, J Pitchaimani(2020), "Thermal buckling of braided flax woven polylactic acid composites" Journal of Reinforced Plastics and Composites, 0731684420957740
9. V Gunasekaran, J Pitchaimani, LBM Chinnapandi(2020), "Analytical investigation on free vibration frequencies of polymer nano composite plate: Effect of graphene grading and non-uniform edge loading" Materials Today Communications 24, 100910
10. S Kanakannavar, J Pitchaimani, MR Ramesh(2020), "Tribological behaviour of natural fibre 3D braided woven fabric reinforced PLA composites" Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology
11. HS Bharath, A Sawardekar, S Waddar, P Jeyaraj, M Doddamani(2020), "Mechanical behavior of 3D printed syntactic foam composites" Composite Structures, 112832
12. D Pious, J Jacob, N George, V Bhagat, T Chacko, P Jeyaraj(2020), "
13. Vibro-acoustic behaviour of functionally graded graphene reinforced polymer nano-composites" AIP Conference Proceedings 2247 (1), 020024
14. S Kanakannavar, J Pitchaimani(2020), "Comparative study of natural fibre 3D braided yarn woven fabric and simply twisted yarn woven fabric reinforced epoxy composites" AIP Conference Proceedings 2247 (1), 040015
15. MKC Garje, P Jeyaraj(2020), "Preface: Advances in Mechanical Design, Materials and Manufacture: Proceedings of the Second International Conference on Design, Materials and Manufacture 2019" AIP Conference Proceedings 2247 (1), 010001

16. CM Twinkle, C Nithun, J Pitchaimani, V Rajamohan(2020), "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
17. GCM Kumar, P Jeyaraj, M Nagamadhu(2020), "Influence of glutaraldehyde on dynamic properties of poly (vinyl alcohol) polymer" Emerging Materials Research 9 (1), 168-179
18. S Waddar, J Pitchaimani, Mrityunjay Doddamani(2020), "Effect of thermal loading on syntactic foam sandwich composite" Polymer Composites
19. V Bhagat, P Jeyaraj(2020), "STRUCTURAL BEHAVIOR OF FG-CNT CYLINDRICAL PANEL: INFLUENCE OF NON-UNIFORM TEMPERATURE FIELD" Materials Physics and Mechanics 44, 332-347
20. MK GC, J Pitchaimani, M Nagamadhu(2020), "No Access Influence of glutaraldehyde on dynamic properties of poly (vinyl alcohol) polymer" ICE Publishing
21. M Nagamadhu, P Jeyaraj, GCM Kumar(2019), "Characterization and mechanical properties of sisal fabric reinforced polyvinyl alcohol green composites: effect of composition and loading direction" Materials Research Express 6 (12), 125320
22. S Waddar, J Pitchaimani, M Doddamani, E Barbero(2019), "Buckling and vibration behaviour of syntactic foam core sandwich beam with natural fiber composite facings under axial compressive loads" Composites Part B: Engineering 175, 107133
23. PB Bharadwaj, J Pitchaimani(2019), "Newtonian approach towards mathematical modelling and tuning of a Continuously Variable Transmission" IOP Conference Series: Materials Science and Engineering 624 (1), 012020
24. N George, P Jeyaraj(2018)," Nonuniform Heat Effects on Buckling of Laminated Composite Beam: Experimental Investigations" International Journal of Structural Stability and Dynamics 18 (12), 1850153
25. S Waddar, J Pitchaimani, M Doddamani, N Gupta(2018), "Buckling and free vibration behavior of cenosphere/epoxy syntactic foams under axial compressive loading" Materials Performance and Characterization 7 (1), 532-546
26. M Rajesh, SP Singh, J Pitchaimani(2018), "Mechanical behavior of woven natural fiber fabric composites: Effect of weaving architecture, intra-ply hybridization and stacking sequence of fabrics" Journal of Industrial Textiles 47 (5), 938-959
27. M Rajesh, J Pitchaimani(2017), "Mechanical characterization of natural fiber intra-ply fabric polymer composites: Influence of chemical modifications" Journal of Reinforced Plastics and Composites 36 (22), 1651-1664
28. PE Sudhagar, AA Babu, V Rajamohan, P Jeyaraj (2017), "Structural optimization of rotating tapered laminated thick composite plates with ply drop-offs" International Journal of Mechanics and Materials in Design 13 (1), 85-124
29. V Bhagat, J Pitchaimani, SM Murigendrappa(2016), "Optimization of buckling strength and fundamental frequency of uniformly heated cylindrical panel using PSO" 2016 IEEE Annual India Conference (INDICON), 1-6
30. N George, P Jeyaraj, SM Murigendrappa(2016), "Buckling of non-uniformly heated isotropic beam: Experimental and theoretical investigations" Thin-Walled Structures 108, 245-255