

Dr. R. RAMESH
Professor
Department of Mechanical Engineering
Sri Venkateshwara College of Engineering
Chennai.
rameshraj@svce.ac.in
Ph: 9445247374

LIST OF PUBLICATIONS (2015 onwards)

1. L.Radhaswamy, C.SenthamaraiKannan, **R. Ramesh**, Investigation of the elastic modulus effect on free vibration characteristics of fiber reinforced polymer composite beams made of various fundamental shapes, Advanced Materials Research Vols. 1088 (2015) pp 401-406.
2. Agarshna Murari M, Ashwin Nambi, C.SenthamaraiKannan, **R.Ramesh**, Experimental Investigation on the Effects of Helically arranged Unconstrained Elastomer Layered Treatment over Structural Steel Beams of Various Cross-section, for Improved Vibration Characteristics, International Journal for Technological Research in Engineering, Volume 2, Issue 7, March-2015,GIF Impact factor: 1.46,2347-4718(online), 2347-9450(print)
3. R. Murugan, **R. Ramesh**, K. Padmanabhan, Experimental Investigation on the Different Aerial Density of Woven Fabric Glass, Carbon and its Hybrid Composite Beam Subjected to Free Vibrating Condition, International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 9 No.26 (2014),9423-9427
4. C.SenthamaraiKannan, L.Radha swamy, **R.Ramesh**, Comparative Study on Vibration characteristics of Straight and Curved beam of box shaped cross section subjected under Cantilever end condition, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 8 (2015).
5. **R.Ramesh**, Siddharth.B, C.SenthamaraiKannan, Study of Free Vibration Characteristics of Carbon Epoxy based Composite Beams, Applied Mechanics and Materials Vols. 813-814 (2015) pp 1042-1046,Trans Tech Publications, Switzerland
6. R. Murugan, **R. Ramesh**, K. Padmanabhan, Investigation on Mechanical Behaviour and Vibration Characteristics of Thin Walled Glass/Carbon Hybrid Composite Beams Under Fixed-Free Boundary Condition, Mechanics of Advanced Materials and Structures, Taylor & Francis, D.O.I.:10.1080/15376494.2015.1056394, 1537-6494 (Print), 1537-6532 (Online),Annexure I,SI.No. 5952, Page 909-916, Volume 23, 2016 - Issue 8, June 2016
7. M.Premananth, **R.Ramesh**, Sliding wear characteristics of solid lubricant coating on titanium alloy surface modified by laser texturing and ternary hard coatings, Transactions of Non Ferrous Metals Society of China, , Vol. 27(2017) pp.839–847.

8. Srivathsan.A, B.Vijayaram, **R.Ramesh**, Gokuldass, Investigation on Mechanical Behaviour Of Woven Fabric Glass/Kevlar Hybrid Composite Laminates Made Of Varying Fibre Inplane Orientation And Stacking Sequence, Materials Today Proceedings, Elsevier, 2017
9. K.Madhivanan, M.Senthilkumar, **R.Ramesh**, Vibration Signal Responses Classification in AA6063 Aluminium Alloy Friction Stir Welded joint Using Optial Neural Network, International Journal of Business Intelligence and Data mining, Inderscience Publishers, 2017
10. C.Senthamaraikannan, **R.Ramesh**, Evaluation of Mechanical and Vibration Behavior of Hybrid Epoxy Carbon Composite Beam Carrying CTBN Rubber And Nano Silica Particulates, Proceedings of the Institution of Mechanical and Applications Engineers, Part L: Journal of Materials Design, Sage Publications, Published June 27, 2018, <https://doi.org/10.1177/1464420718784315>
11. R. Gokuldass, **R. Ramesh**, Mechanical Strength Behavior of Hybrid Composites Tailored by Glass/Kevlar Fibre-Reinforced in Nano-Silica and Micro-Rubber Blended Epoxy, Silicon Springer Publications, Vol.11 (2019) pp.2731 to 2739
12. T S Frank Gladson, **R Ramesh** and C Kavitha, Experimental investigation of mechanical, tribological and dielectric properties of alumina nano wire-reinforced PEEK/PTFE composites . Vol 6 No.11(2019), Materials Research Express, IOP science
13. R.Murugan, **R.Ramesh** and K. Pdmanabhan,(2018) Experimental Study on Fatigue-Vibration Interactions of Cyclically Loaded FRP Composite Cantilever Beams made of Glass/Carbon Layered Arrangements, In: Prakash R., Jayaram V., Saxena A. (eds) Advances in Structural Integrity. pp579-591 Springer Nature Singapore ISBN 978-981-10-7196-6 DOI https://doi.org/10.1007/978-981-10-7197-3_48
14. Murugan **R., Ramesh R.**, Padmanabhan K. (2020) Influence of Stacking Sequence on Mechanical Properties and Vibration Characteristics of Glass/Carbon Hybrid Plates with Different Fabric Areal Densities. *Proceedings of ICONS 2018* In: Prakash R., Suresh Kumar R., Nagesha A., Sasikala G., Bhaduri A. (eds) Structural Integrity Assessment. pp 87-97 Lecture Notes in Mechanical Engineering. Springer link,Singapore ISBN 978-981-13-8766-1 DOI https://doi.org/10.1007/978-981-13-8767-8_7
15. **Ramesh R.**, Professor, Mechanical Engineering and Senthamaraikannan C. Assitant Professor, Mechanical Engineering published a paper titled “Study on the Influence of Nanosized Silica Reinforcement in Microrubber Blended Epoxy Carbon Composite Laminate Subjected Under Dynamic Mechanical Analysis” in the book Advances in

INTERNATIONAL CONFERENCE PUBLICATIONS

1. S.Nandhini, **R.Ramesh**, Design and Analysis of modified shock Absorber system of landing gear for lighter aircraft. International conference on Advances in Materials and Manufacturing, (INTCOMM 2015) held on 3rd & 4th March 2015, at Hindustan College of Engineering.
2. Sriram R, **Ramesh R** and Premananth M, Investigation on contact behaviour of TiAlN and AlCrN coated Titanium alloy substrate over bearing steel subjected under reciprocating sliding condition, 1st International Conference on Advanced Engineering and Technology for Sustainable Development (ICAETSD 2015) at Karpagam College of Engineering, Coimbatore, 5th March 2015.
3. **R.Ramesh**, Siddharth.B, C.Senthamarai kannan, Study on free vibration characteristics of carbon epoxy based composite beams, International conference on mechanical and manufacturing engineering, ICMME 2015, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, 2 and 3rd April 2015. (*Awarded best paper in the conference*)
4. Krishnaswamy V, **R.Ramesh**, Investigation on Tribological properties of PEEK polymer reinforced with PTFE and SiO₂ Nano Particles, TEQIP II sponsored International conference on Advances in Materials, Manufacturing and Applications, Amma -2015, Department of Metallurgical and Materials engineering, National Institute of Technology, Tiruchirappalli, 9-11 April 2015.
5. G.Vignesh, N.S.TharunKrishna, C.Senthamarai kannan, **R.Ramesh**, Dynamic Mechanical behaviour of Carbon fibre based Composite laminate made of micro rubber blended epoxy matrix for Structural Applications, International conference on Aerospace and Mechanical Engineering, TKM College of Engineering, Kollam, 14-16 Dec 2016.
6. K.Rohit Krishna, N.Navin Kamesh, **R Ramesh**, R Murugan, Experimental investigation on stacking sequence effects of surface treated Jute/Kenaf Hybrid Composite laminates under Flexural loading Condition, International conference on Aerospace and Mechanical Engineering, TKM College of Engineering, Kollam, 14-16 Dec 2016.
7. Vinoth Kumar.M, **R.Ramesh**, C.Senthamarai Kannan. "Experimental And Analytical Free Vibration Study On Nano-Silica Based Carbon Composite Beams Of Basics Shapes". International Conference on Recent Trends in Engineering and Technology (ICET2016)", Department Of Mechanical Engineering, St.Joseph's Institute Of Technology, Chennai, Dated on 28th and 29th of April 2016.
8. Senthamarai kannan C, **Ramesh R**, Rishi S Vaidya V and B.Vijayaram B, Experimental Forced Vibration Response Of Micro Rubber And Nano Silica Particles Added Carbon Epoxy Composite Beams For Various Cross Sectional Shapes, The 7th International

Conference On Mechanical And Aerospace Engineering (ICMAE 2016), London, United Kingdom, 18-22 July 2016

9. Srivathsan A, B Vijayaram, **R.Ramesh**, Gokuldass, Investigation On Mechanical Behavior Of Woven Fabric Glass/Kevlar Hybrid Composite Laminates Made Of Varying Fibre Inplane Orientation And Stacking Sequence, International Conference on Advancements in Aeromechanical Materials for Manufacturing (ICAAMM-2016).during 7-9th July 2016, MLR Institute of technology, Hyderabad.
10. R.Murugan, **R.Ramesh** and K. Pdmanabhan, Experimental Study on Fatigue-Vibration Interactions of Cyclically Loaded FRP Composite Cantilever Beams made of Glass/Carbon Layered Arrangements, First Structural Integrity Conference and Exhibition (SICE-2016), Indian Institute of Science, IISc, Bangalore, 24th June 2016
11. C.SenthamaraiKannan, M. Monish Kumbhat and **R.Ramesh**, Investigation on Experimental Modal Response of Hybrid Carbon Composite Plates, Composed of Varying Weight Fraction of Micro Rubber Particulates, 7 th International conference on Advances in Science Engineering and Technology (7 ICASET 2017), April 24th 2017 at Rajiv Gandhi Institute of Technology, Bangalore, India
12. **R.Ramesh**, V.Vishal C.SenthamaraiKannan, Experimental Free Vibration Characteristics of Micro-Rubber Blended Carbon Composite Plates of Varying Thickness Conditions, 2nd International Conference on Recent Trends in Engineering and Technology, St. Joseph's Institute of Technology, 5-6th May 2017
13. T.S.Frank Gladson , P.K.Dinesh Kumar , **R.Ramesh**, Mechanical Behavior of Nanowire Al₂O₃ Reinforced PEEK-PTFE Hybrid Composite for Structural Element Applications, 2nd International Conference on Recent Trends in Engineering and Technology, St. Joseph's Institute of Technology, 5-6th May 2017.
14. T.S. Frank Gladson, P.K. Dinesh Kumar and **R.Ramesh** "Investigation of Mechanical and Tribological Behaviour of Nano Al₂O₃ Reinforced PEEK/PTFE Hybrid Composite for Structural Application 10th International Conference on Precision, Meso, Micro and Nano Engineering (COPEN10), DEC 7-9 2017 ,Held at, Indian Institute of Technology Madras, Chennai
15. T.S. Frank Gladson, P.K. Dinesh Kumar , **R.Ramesh**, Tribological Behavior of Nanowire Al₂O₃ Reinforced PEEK-PTFE Hybrid Composite for Structural Element ApplicationsS, International Conference on Composite Materials and Structures- ICCMS 2017,Hyderabad, 27-29th December 2017
16. R. Murugan, **R. Ramesh** , K. Padmanabhan, Influence of Stacking Sequence on Mechanical Properties And Vibration Characteristics Of Glass/Carbon Hybrid Plates With Different Fabric Areal Densities, *ICONS 2018*, Second International Conference On Structural Integrity ,14-17 December, 2018, IITM, Chennai, India, **-Received Best paper Award**

- 17. R.Ramesh**, C.Senthamaraikannan, Niranjana Suresh, B.Lokesh, Study on the influence of nano sized silica reinforcement in micro rubber blended epoxy carbon composite laminate subjected under dynamic mechanical analysis, 4th International Conference on Materials and Manufacturing Engineering (ICMME-2019) organized by Department of Mechanical Engineering, SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDYALAYA, Kancheepuram, India, held on March 21 & 22, 2019. – ***Received Best paper Award***