Dr. A. AROCKIA JULIAS, B.E., M.E., Ph.D.

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Education:

Ph.D. Mechanical Engineering	Anna University, India	2016
M.E. Computer Aided Design	Anna University, India	2006
B.E. Mechanical Engineering	Manonmaniam Sundaranar University, India	2004

Academic Experience:

Teaching faculty in the department of Mechanical Engineering of B S Abdur Rahman Crescent Institute of Science & Technology, Chennai, India for 14 Years.

Research Experience and Skills:

Part time research scholar of Anna University Chennai under Dr.Vela Murali.

Ph.D. Thesis: Experimental and Numerical Studies on Glass/Carbon-Epoxy and Glass/Kevlar-Epoxy Hybrid Laminates.

Specialized in fabrication of composite materials, Mechanical testing of materials, SEM analysis and Simulation of fiber reinforced composites using CAE software.

Publications:

International Journals:

1. **Arockia Julias, A,** & Vela Murali, 2018, 'Interlaminar fracture behaviour of hybrid laminates stacked with carbon/kevlar fibre as outer layers and glass fibre as core', Advances in Materials and Metallurgy. Lecture Notes in Mechanical Engineering. Springer, Singapore, pp.91-100.
2. **Arockia Julias, A,** Rajaraman, R, & Vela Murali, 2018, 'Effect of fiber orientation on the delamination behaviour of glass-carbon hybrid interface' International Journal of Mechanical and Production Engineering Research and Development, Vol.8, no.3, pp.1159-1166. (Scopus)
3. **Arockia Julias, A,** & Vela Murali, 2016, 'Experimental impact study on unidirectional glass-carbon hybrid composite laminates', Science and Engineering of Composite Materials, vol.23, no.6, pp. 721-728. (SCI)
4. **Arockia Julias, A,** Ram Kumar, N, & Vela Murali, 2015, 'Evaluation of Lamina Properties and Fractographic Studies on Glass/Epoxy, Carbon/Epoxy and Kevlar/Epoxy Composites', Applied Mechanics and Materials, vol.813-814, pp.46-50.
5. **Arockia Julias, A,** Vela Murali, 2014, 'Effect of Carbon Fiber Position on the Impact Behaviour of Glass/Carbon Fiber Hybrid Composite Laminates' International Journal of Applied Engineering Research, Vol.9, no.26, pp. 9129-9132.

6. **Arockia Julias, A,** Sufean Abdulhakeem, M, & Vela Murali, 2014, 'Effect of delamination on buckling strength of unidirectional glass-carbon hybrid laminates', Indian Journal of Engineering & Materials Sciences, Vol.21, no. 1 , pp 23-29. (SCI)

International Conference:

1. Ramkumar, N, **Arockia Julias, A,** Vela Murali, & Rasool Mohideen, 2013, 'Experimental investigation on mode I fracture toughness of low temperature treated glass/carbon hybrid composite laminates', Proceedings of the International Conference on Sustainable Manufacturing, Coimbatore Institute of Technology, pp 357-362.
2. Ramya, S, **Arockia Julias, A,** & Vela Murali, 2013, 'Experimental investigation on flexural strength of glass/kevlar and glass/carbon hybrid composite laminates', Proceedings of the International Conference on Sustainable Manufacturing, Coimbatore Institute of Technology, pp 402-405.

3. Sufean, AM, **Arockia Julias, A,** & Vela Murali, 2012, 'Experimental study on delaminated buckling of symmetric hybrid laminated composite plates', Proceedings of International Conference on Mechanical and Industrial Engineering, Goa, pp 66-70.
4. **Arockia Julias, A,** & Rajendran, R, 2006, 'Cam Sleeve profile design for piston ring manufacturing using FEA', Proceedings of 22nd International conference on CAD / CAM, Robotics and Factories of the Future, VIT Vellore, pp 131-137.

National Conference:

1. Balasubramanian,P, Vela Murali & **Arockia Julias, A**, 2014, 'Experimental study on the impact behavior of hybrid laminated composites', Proceedings of National Conference on Innovative and Emerging Trends in Engineering Technology, Panimalar Institute of Technology, Chennai.
2. Rajmohan, M, **Arockia Julias, A**, Thajudeen, S, & Vijayakumar L, 2013, 'Experimental studies on delamination behaviour of hybrid composite laminates', Proceedings of National conference on Advances on Materials Design and Manufacturing, ed. Rasool Mohideen, Crescent, Chennai, pp M11-M15.
3. Ragul,S, **Arockia Julias, A,** & Vela Murali, 2011, 'Impact test on Hybrid (Glass / Carbon) Fiber Reinforced Polymer Laminates', Proceedings of Advances in Mechanical Sciences, GCT - Coimbatore, pp 15-19.
4. Renit,S, **Arockia Julias, A**, & Vela Murali, 2011, 'Buckling analysis of hybrid fiber reinforced polymer laminates', Proceedings of Advances in Mechanical Sciences, GCT- Coimbatore, pp 10-14.
5. Ayaz Ahmed, Rajaraman, R, & **Arockia Julias, A**, 2010 'Structural & Thermal Analysis on Wheel & Axle of a train using FEM', Proceedings of Mech Fusion, DBIT, Bangalore.
6. Ashraff ali, K.S, **Arockia Julias, A,** & Abdul Majeed, S.S.M, 2010 'Delamination analysis of fiber reinforced polymer composite laminates', Proceedings of Recent innovations in production Engg., ed. Rajadurai A, Rajmohan, B, Kalaichelvan, K, MIT- Chennai, pp A65-68.