

LIST OF PUBLICATION DETAILS (2015 TO 2020)

1. Ahilan C, **Edwin Raja Dhas J** , Somasundaram Kumanan and Sivakumaran N (2015) Performance assessment of heat exchanger using intelligent decision making tools , Applied Soft Computing, Vol 26, 474-482.
2. M. Satheesh and **J. Edwin Raja Dhas** (2015) Multi Objective Optimization of FCAW parameters using Grey based Taguchi with entropy Technique, International Journal of Industrial and Systems Engineering, Vol 19, No 2,190-205.
3. M Aniber Benin, B Stanly Jones Retnam M. Ramachandran, M Sivapragash and **J Edwin Raja Dhas**, (2015), Comparative study of tensile properties on Thermoplastic & Thermosetting polymer composites, International Journal of Applied Engineering Research ISSN 0973-4562 Vol 10, Number 11, 10109- 10113.
4. P. Pradeep **J. Edwin Raja Dhas** M. Ramachandran and B Stanly Jones Retnam,(2015) Mechanical Characterization of jute fiber over glass and carbon fiber reinforced polymer composites, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 11, 10392- 10396.
5. P. Pradeep and **J. Edwin Raja Dhas** (2015), Investigations on Alkali Treated Natural Fiber Reinforced Polymer Composite by Finite Element Analysis , Journal of Mechanical and Mechanics Engineering, Vol 1, No 1 , 1-13
6. **J. Edwin Raja Dhas** and P.Pradeep ,(2015) Application of RSM and ANFIS models for machining Quality Prediction, Alloy Journal of Soft Computing and Applications Volume 3, Issue 1 pp.5-13.
7. Ramanan G and **J Edwin Raja Dhas**, (2015) Preparation of Al 7075 - PAC Metal Matrix Composites and Evaluation of Mechanical Properties, International Journal of Applied Engineering Research Volume 10, Number 70 pp.304-312.
8. P. Pradeep and **J. Edwin Raja Dhas** (2015), Evaluation of mechanical property on palm/coir based polymer matrix composites, Advances in Materials Science and Engineering: An International Journal , Vol. 2, No. 3, 2015, pp.9-16.
9. P. Pradeep and **J. Edwin Raja Dhas** (2015), Characterization of chemical and physical properties of palm fibers, Advances in Materials Science and Engineering: An International Journal , Vol. 2, No. 4, 1-6.

10. M.A. Unnikrishnan and **J. Edwin Raja Dhas** (2015), Friction Stir Welding Of Magnesium Alloys - A Review, Advances in Materials Science and Engineering: An International Journal, Vol. 2, No. 4, 7-18.
11. P. Pradeep and **J. Edwin Raja Dhas** (2015), Tensile and flexural characteristics of palm/glass sandwiched Polymer Composite, Journal of Mechanical and Mechanics Engineering, Vol 1, No 3 , 1-9
12. F.Peter, V.Jose Vino, P.Pradeep, **J. Edwin Raja Dhas** (2016) Effects of alkali treatment on mechanical properties of NFPRC, Journal of Emerging Technologies, Volume: II Special Issue: 2, ISSN No: 0973-2993, 110-121.
13. P.Pradeep, **J. Edwin Raja Dhas**, Suthan R. and Jayakumar V. (2016) Characterization of palm fibers for reinforcement in polymer matrix, ARPN Journal of Engineering and Applied Sciences, Volume: II Special Issue:2 , ISSN No: 0973, 8-12.
14. Jenkins Hexley Dhas. S and **Edwin Raja Dhas. J.** (2016) Effect of TiCp on AA2219 Metal Matrix Composite, Global Research and Development Journal for Engineering, ISSN No: 2455, 24-30.
15. Pradeep P. and **Edwin Raja Dhas J** (2016) Comparison of mechanical properties for hybrid palm/glass/rare earth filler reinforced polymer composite Vol. 5, No. 1, ARPN Journal of Earth Sciences. pp 8-12.
16. Rajesh Prabha N ,**J. Edwin Raja Dhas**, Visakh, S (2016) “Investigation on optimization of wear properties on Aluminium hybrid metal matrix using Taguchi method”,International Journal of Innovations in Engineering & Technology, Vol 6, Issue 3,PP: 393 – 400.
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19. G. Diyu Samuel and **J. Edwin Raja Dhas** (2017) Multi-Objective Optimization of friction stir welded dissimilar aluminium composites using grey analysis International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12, Number 7 pp. 1279-1289.

20. G. Ramanan, **J. Edwin Raja Dhas**, M. Ramachandran and G. Diju Samuel, (2017) Influence of activated carbon particles on microstructure and thermal analysis of AA7075 metal matrix composites(2017) Rasayan Journal of Chemistry 10(2), 375 -384ISSN: 0974-1496 Vol. 10 , No. 2 ,375 -384 .
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22. G. Diju Samuel and **J. Edwin Raja Dhas** (2017) Effect of Process Parameters on the Microstructure and Mechanical Properties of Al6061/Powdered Activated Carbon Metal Matrix Composite International Journal of Control Theory and Applications, ISSN: 0974–5572 Volume 10 • Number 27 • 2017, pp 285-295.
23. G. Ramanan, **J. Edwin Raja Dhas**, (2017) Neural Network Prediction and Analysis of Material Removal Process during Wire Cut Electrical Discharge Machining, REST Journal on Emerging trends in Modelling and Manufacturing 3(1), 7-11.
24. Ramanan Gopalakrishnan, **Edwin Raja Dhas John**, (2017) Experimental Investigation and Multi Response Optimization of WEDM Process of AA7075 Metal Matrix Composites Using Particle Swarm Optimization, International Journal of Intelligent Engineering and Systems, Vol.10, No.4,pp 166-174.
25. Ramanan G , **Edwin Raja Dhas J** (2017) Multi Objective Optimization of Machining Parameters for AA7075 Metal Matrix Composite Using Grey - Fuzzy Technique International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12,Number 8 pp. 1729-1735
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28. Rajesh Prabha N and **J. Edwin Raja Dhas** (2017) Design optimization of surface roughness by turning process using response surface methodology and grey relational

analysis International Journal of Mechanical Engineering and Technology Volume 8, Issue 8, pp. 810–810.

29. Rajesh Prabha N and **J. Edwin Raja Dhas** (2017) Finite element structural analysis of connecting rod of AA7075-TiC composite using ANSYS, International Journal of , Mechanical Engineering and Technology Volume 8, Issue 7, pp. 1102–1110.
30. D.Bino Prince Raja, Stanly Jones Retnam. B, **Edwin Raja Dhas.J**, (2017) “Mechanical Characterization on Woven Bidirectional Natural Fiber Reinforced Polymer Composites”, International Journal on Future Revolution in Computer Science & Communication Engineering (IJFRSCE), Volume 3 Issue 9 , PP: 134 – 136
31. **Edwin Raja Dhas.J**, Pon Sudhir Sajan. S. S, (2017) A Comprehensive Review of Aluminium – Boron Carbide Matrix Composites, Journal of Mechanical Engineering and Applied Mechanics Volume 2 Issue 3. Page 17-31.
32. Ramanan G, **Edwin Raja Dhas J** and Jai Aultrin K S (2017) Multi Response Prediction of Machining Process Parameters Using Artificial Neural Network International Journal of Mechanical Engineering and Technology Volume 8, Issue 5,866–876.
33. G. Diju Samuel and **J. Edwin Raja Dhas** (2017) Optimization of Friction Stir Weld Parameters Using Response Surface Method for Hybrid Non Ferrous Composites.International Journal of Mechanical Engineering and Technology Volume 8, Issue 5 pp.912–923.
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40. Shamim Ibrahim, R.C. Mehta , **J. Edwin Raja Dhas**, A Comprehensive Review to Study the Role of Air Conditioning and Air Flow Improvements in Small Passenger Vehicles, Journal of Advanced Research in Dynamical and Control Systems, 2018 Issue: 03-Special Issue Pages: 372-391.
41. **John Edwin Raja Dhas**, Moni Satheesh, Development of Probabilistic Neural Network Model for Weld Quality Prediction Engineering and Technology, 2018; 5(2): 21-27
42. M.R. Arun, **J. Edwin Raja Dhas**, and B.Stanly Jones Retnam 2018, Experimental Investigations of Nano Enhanced Hybrid Facesheets, Journal of Advancements in Material Engineering Volume 3, Issue 2 Page 1–9 .
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46. Arun M.P, Satheesh M , **J.Edwin Raja Dhas** Fluid-structure interaction of cropped delta wing with experimental validation International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN (P): 2249-6890; ISSN (E): 2249-8001 Vol. 8, Issue 4, 2018, 485-498.

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48. Bino Prince Raja D, B Stanly Jones Retnam, J.K Bhusan and **Edwin Raja Dhas J** Experimental Investigation of Hybrid Bamboo/Glass Fibre Reinforced Polyester Composites Elixir Materials Science 119 (2018) 51189-51192 51189
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62. M.A. Unnikrishnan, **J. Edwin Raja Dhas** and S. Shanavas, Development of Taguchi based Grey Relational Aanalysis for FSW Parametric Optimization on AZ31B Magnesium Alloy 2020. Int. J. Vehicle Structures & Systems, 12(3), 70-76
63. Sonia S. Raj , P. Pradeep and **J. Edwin Raja Dhas** Parameter optimisation of fibre reinforced polymer composite by RSM design matrix, Int. J. Computer Aided Engineering and Technology, (Online)
64. **J. Edwin Raja Dhas** & Jenkins Hexley Dhas, Mechanical and Microstructural Characterization of Friction Stir-Welded AA2219: TiCp-Reinforced Composites, Iranian Journal of Science and Technology, Transactions of Mechanical Engineering (Online)
65. Sonia S Raj , **J Edwin Raja Dhas** and CP Jesuthanam, Challenges on machining characteristics of natural fiber-reinforced composites – A review, Journal of Reinforced Plastics and Composites (Online).