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**DEPARTMENT OF MECHANICAL ENGINEERING**

**PUBLICATION DETAILS FOR THE ACADEMIC YEAR 2022 - 2023**

| S. No | Staff Name                          | Month and Year | Name of Journal  | All Authors Name, Paper Title, volume, month, year of publication   | DOI   |
|-------|-------------------------------------|----------------|--|---|---|
| 1     | <b>Dr. K. Arun Vasantha Geethan</b> | September 2022 | Fresenius Environmental Bulletin                               | <b>K Arun Vasantha Geethan, S Godwin Barnabas, Vijay Ananth Suyamburajan, S Valai Ganesh, ,</b> <i>Obtaining The Zero Landfill For End Of Life Of Automotive Components Using Efficient Recycling And Reusing Approach</i> , Volume 31– No. 09/2022 pages 9821-9830                             | <a href="https://www.prt-parlar.de/download_feb_2022/">https://www.prt-parlar.de/download_feb_2022/</a>   |
| 2     |                                     | June 2022      | Material Today Proceeding                                      | <b>Chrispin Das M,</b> Arthur Jebastine Sunderraj D, Arun Vasantha Geethan K, Elilraja D, Prabhuram T and Prathap Singh S, <i>Mechanical and Moisture Absorption behavior of Woven Pineapple Leaf Phenol Formaldehyde Composites</i> , 62(2), June 2022.  | <a href="https://www.sciencedirect.com/science/article/pii/S2214785322028401">https://www.sciencedirect.com/science/article/pii/S2214785322028401</a>                         |
| 3     |                                     | August 2022    | Soldering & Surface Mount Technology                           | <b>D. Arthur Jebastine Sunderraj,</b> D. Ananthapadmanaban, K. Arun Vasantha Geethan, <i>Mechanical testing and characterization of tin–zinc–antimony–lanthanum lead-free solders produced using mechanical alloying and furnace melting techniques</i> , August 2022.                          | <a href="https://www.emerald.com/insight/content/doi/10.1108/SSMT-03-2022-0018/full/html">https://www.emerald.com/insight/content/doi/10.1108/SSMT-03-2022-0018/full/html</a> |
| 4     |                                     | June 2022      | Material Today Proceeding                                      | <b>S.Prathap Singh,</b> D. Ananthapadmanaban, K. Arun Vasantha Geethan, P. Ravichandran, <i>Microscopical and corrosion studies on Al6061 - 10% Al<sub>2</sub>O<sub>3</sub> functionally graded metal matrix composites</i> , 62(2), June 2022.   | <a href="https://www.sciencedirect.com/science/article/pii/S2214785322019174">https://www.sciencedirect.com/science/article/pii/S2214785322019174</a>                         |
| 5     | <b>Dr. D. Elil Raja</b>             | December 2022  | International Journal of Lightweight Materials and Manufacture | P. Prabhuraj, S. Rajakumar, Tushar Sonar, Mikhail Ivanov, I. Rajkumar, D. Elil Raja, <i>Effect of retrogression and reaging (RRA) on pitting and stress corrosion cracking (SCC) resistance of stir zone of high strength AA7075-T651 alloy joined by friction stir welding</i> , December 2022 | <a href="https://doi.org/10.1016/j.jlmm.2022.12.002">https://doi.org/10.1016/j.jlmm.2022.12.002</a>   |
| 6     |                                     | December 2022  | Journal of Ceramic   | <b>D. Elil Raja,</b> S. Prathap Singh, V. Rangarajan, M. Chrispin Das, <i>Tribological and characterization studies of aluminium alloy 6061 reinforcement with</i>  | <a href="https://doi.org/10.36410/jcpr.2022.23.6.926">https://doi.org/10.36410/jcpr.2022.23.6.926</a>   |



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|    |                            |               | Processing Research                           | <i>aluminium oxide and copper metal matrix composites</i> , Vol. 23, No. 6, pp. 926~933 (2022)   |   |
| 7  |                            | December 2022 | Advances in Materials Science and Engineering | <b>D. Elil Raja</b> , S. Panneer Selvan, P. Prabhuraj, Tushar Sonar, <i>Optimization of Drilling Parameters in Sisal-Human Hair Hybrid Composite Using Grey Relational Analysis</i> , December 2022.   | <a href="https://doi.org/10.1155/2022/4614105">https://doi.org/10.1155/2022/4614105</a>   |
| 8  |                            | August 2022   | Journal of Ceramic Processing Research        | M. Rajeshwaran, B. Shreeram, T. Thangeeswari and <b>D. Elil Raja</b> , <i>Experimental analysis and investigation of the performance of 3Al<sub>2</sub>O<sub>3</sub>-2SiO<sub>2</sub>-La<sub>2</sub>O<sub>3</sub> ceramic-coated piston</i> , 23(4), August 2022.              | <a href="http://www.jcpr.or.kr/journal/archive/view/2691">http://www.jcpr.or.kr/journal/archive/view/2691</a>   |
| 9  |                            | Sep 2022      | Materials today: Proceedings                  | <b>Ramesh Krishnan, K.</b> Gnanasekaran, Dr. D. Elil Raja, S. Jagadeesh, S. Prathap Singh, <i>Experimental Study of Micro-EDM on EN24 Steel with Normal Brass, Tin Coated Brass, Cryogenic Treated Brass Tool by Varying the Machining Parameters</i> , 66(4), September 2022. | <a href="https://www.sciencedirect.com/science/article/pii/S2214785322038287">https://www.sciencedirect.com/science/article/pii/S2214785322038287</a> |
| 10 |                            | June 2022     | Material Today Proceeding                     | <b>T. Prabhuram</b> , S. Prathap Singh, J. Immanuel Durairaj, D. Elilraja, M. Chrispin Das, D. Arthur Jebastine Sunderraj, <i>Optimization of operation parameters in machining of functionally graded metal matrix composite using TOPSIS</i> , 62(2), June 2022.             | <a href="https://doi.org/10.1016/j.matpr.2022.03.562">https://doi.org/10.1016/j.matpr.2022.03.562</a>   |
| 11 |                            | June 2022     | Material Today Proceeding                     | <b>Chrispin Das M</b> , Arthur Jebastine Sunderraj D, Arun Vasantha Geethan K, Elilraja D, Prabhuram T and Prathap Singh S, <i>Mechanical and Moisture Absorption behavior of Woven Pineapple Leaf Phenol Formaldehyde Composites</i> , 62(2), June 2022.                      | <a href="https://www.sciencedirect.com/science/article/pii/S2214785322028401">https://www.sciencedirect.com/science/article/pii/S2214785322028401</a> |
| 12 | <b>Dr. M. Chrispin Das</b> | December 2022 | Journal of Ceramic Processing Research        | <b>D. Elil Raja</b> , S. Prathap Singh, V. Rangarajan, M. Chrispin Das, <i>Tribological and characterization studies of aluminium alloy 6061 reinforcement with aluminium oxide and copper metal matrix composites</i> , Vol. 23, No. 6, pp. 926~933 (2022)                    | <a href="https://doi.org/10.36410/jcpr.2022.23.6.926">https://doi.org/10.36410/jcpr.2022.23.6.926</a>   |



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| 13 |                                  | June 2022     | Material Today Proceeding                | <b>T. Prabhuram</b> , S. Prathap Singh, J. Immanuel Durairaj, D. Elilraja, M. Chrispin Das, D. Arthur Jebastine Sunderraj, <i>Optimization of operation parameters in machining of functionally graded metal matrix composite using TOPSIS</i> , 62(2), June 2022.                                  | <a href="https://doi.org/10.1016/j.matpr.2022.03.562">https://doi.org/10.1016/j.matpr.2022.03.562</a>   |
| 14 |                                  | June 2022     | Material Today Proceeding                | <b>Chrispin Das M</b> , Arthur Jebastine Sunderraj D, Arun Vasantha Geethan K, Elilraja D, Prabhuram T and Prathap Singh S, <i>Mechanical and Moisture Absorption behavior of Woven Pineapple Leaf Phenol Formaldehyde Composites</i> , 62(2), June 2022.   | <a href="https://www.sciencedirect.com/science/article/pii/S2214785322028401">https://www.sciencedirect.com/science/article/pii/S2214785322028401</a> |
| 15 | <b>Mr. T. Prabhuram</b>          | June 2022     | Material Today Proceeding                | <b>T. Prabhuram</b> , S. Prathap Singh, J. Immanuel Durairaj, D. Elilraja, M. Chrispin Das, D. Arthur Jebastine Sunderraj, <i>Optimization of operation parameters in machining of functionally graded metal matrix composite using TOPSIS</i> , 62(2), June 2022.                                  | <a href="https://doi.org/10.1016/j.matpr.2022.03.562">https://doi.org/10.1016/j.matpr.2022.03.562</a>   |
| 16 |                                  | June 2022     | Material Today Proceeding                | <b>Chrispin Das M</b> , Arthur Jebastine Sunderraj D, Arun Vasantha Geethan K, Elilraja D, Prabhuram T and Prathap Singh S, <i>Mechanical and Moisture Absorption behavior of Woven Pineapple Leaf Phenol Formaldehyde Composites</i> , 62(2), June 2022.   | <a href="https://www.sciencedirect.com/science/article/pii/S2214785322028401">https://www.sciencedirect.com/science/article/pii/S2214785322028401</a> |
| 17 | <b>Mr. J. Immanuel Durai Raj</b> | November 2022 | AIP Conference Proceedings               | <b>N. Aagashram, J. Immanuel Durai Raj, A. Andrew Raymond Raj, S. Prathap Singh</b> , <i>CFDGAN: A generative adversarial network for flow approximation</i> , AIP Conference Proceedings 2446, November (2022).  | <a href="https://doi.org/10.1063/5.0108335">https://doi.org/10.1063/5.0108335</a>   |
| 18 |                                  | June 2022     | Material Today Proceeding                | <b>T. Prabhuram</b> , S. Prathap Singh, J. Immanuel Durairaj, D. Elilraja, M. Chrispin Das, D. Arthur Jebastine Sunderraj, <i>Optimization of operation parameters in machining of functionally graded metal matrix composite using TOPSIS</i> , 62(2), June 2022.                                  | <a href="https://doi.org/10.1016/j.matpr.2022.03.562">https://doi.org/10.1016/j.matpr.2022.03.562</a>   |
| 19 |                                  | June 2022     | International Journal of Health Sciences | Perumal, T. S. R., Kulshrestha, V., Shastri, R. K., Raj, <b>J.Immanuel Durai Raj</b> , Mahandiran, S. B., & Velu, C, <i>Evaluation of image quality based on visual perception using antagonistic networks in autonomous vehicles</i> . International Journal of Health Sciences, 6(S3), June 2022. | <a href="https://doi.org/10.53730/ijhs.v6nS3.8731">https://doi.org/10.53730/ijhs.v6nS3.8731</a>   |



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| 20 | <b>Mr. N. Suresh</b>                     | November 2022  | Journal of Process Mechanical Engineering - SAGE - PART E | <b>N.Suresh</b> , L.Balamurugan, D.Jayabalakrishnan, <i>Influence of SiC, WC reinforcements on mechanical properties of AA6061 Aluminium hybrid composites</i> , Journal of Process Mechanical Engineering, SAGE - PART E  | <a href="https://doi.org/10.1177/09544089221141353">https://doi.org/10.1177/09544089221141353</a>   |
| 21 | <b>Mr. D. Arthur Jebastine Sunderraj</b> | August 2022    | Soldering & Surface Mount Technology                      | <b>D. Arthur Jebastine Sunderraj</b> , D. Ananthapadmanaban, K. Arun Vasantha Geethan, <i>Mechanical testing and characterization of tin-zinc-antimony-lanthanum lead-free solders produced using mechanical alloying and furnace melting techniques</i> , August 2022.        | <a href="https://www.emerald.com/insight/content/doi/10.1108/SSMT-03-2022-0018/full/html">https://www.emerald.com/insight/content/doi/10.1108/SSMT-03-2022-0018/full/html</a> |
| 22 |  | June 2022      | Material Today Proceeding                                 | <b>T. Prabhuram</b> , S. Prathap Singh, J. Immanuel Durairaj, D. Elilraja, M. Chrispin Das, D. Arthur Jebastine Sunderraj, <i>Optimization of operation parameters in machining of functionally graded metal matrix composite using TOPSIS</i> , 62(2), June 2022.             | <a href="https://doi.org/10.1016/j.matpr.2022.03.562">https://doi.org/10.1016/j.matpr.2022.03.562</a>   |
| 23 |  | June 2022      | Material Today Proceeding                                 | <b>Chrispin Das M</b> , Arthur Jebastine Sunderraj D, Arun Vasantha Geethan K, Elilraja D, Prabhuram T and Prathap Singh S, <i>Mechanical and Moisture Absorption behavior of Woven Pineapple Leaf Phenol Formaldehyde Composites</i> , 62(2), June 2022.                      | <a href="https://www.sciencedirect.com/science/article/pii/S2214785322028401">https://www.sciencedirect.com/science/article/pii/S2214785322028401</a>                         |
| 24 | <b>Mr. R. Ranjith Kumar</b>              | September 2022 | Material Today Proceeding                                 | G R Kannan, B. Vijaya Kumar, T. S. Senthil, Prashant sunagar, <b>R. Ranjith Kumar</b> , Lukesh Parida, Ram Subbiah, <i>optimization and electro chemical grinding surface investigation on eglin steel</i> , 66(3), September 2022.  | <a href="https://www.sciencedirect.com/science/article/pii/S2214785322031571">https://www.sciencedirect.com/science/article/pii/S2214785322031571</a>                         |
| 25 | <b>Mr. S. Jagadeesh</b>                  | September 2022 | Materials today: Proceedings                              | <b>Ramesh Krishnan, K.</b> Gnanasekaran, Dr. D. Elil Raja, S. Jagadeesh, S. Prathap Singh, <i>Experimental Study of Micro-EDM on EN24 Steel with Normal Brass, Tin Coated Brass, Cryogenic Treated Brass Tool by Varying the Machining Parameters</i> , 66(4), September 2022. | <a href="https://www.sciencedirect.com/science/article/pii/S2214785322038287">https://www.sciencedirect.com/science/article/pii/S2214785322038287</a>                         |



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| 26 | <b>Mr. K. Ramesh</b>        | July 2022      | Environmental Engineering and Management Journal | Gopinath Dhamodaran, Ganapathy Sundaram Esakkimuthu, Thennarasu Palani, <b>Ramesh Krishnan</b> , "Feasibility of adding fuel oil as an oxygenate to gasoline on reducing MPFI engine emission" July 2022   |   |
| 27 |                             | June 2022      | Materials today: Proceedings                     | <b>Ramesh Krishnan, K.</b> Gnanasekaran, Dr. D. Elil Raja, S. Jagadeesh, S. Prathap Singh, <i>Experimental Study of Micro-EDM on EN24 Steel with Normal Brass, Tin Coated Brass, Cryogenic Treated Brass Tool by Varying the Machining Parameters</i> , 66(4), September 2022. | <a href="https://www.sciencedirect.com/science/article/pii/S2214785322038287">https://www.sciencedirect.com/science/article/pii/S2214785322038287</a>                           |
| 28 | <b>Mr. A. Sathish Kumar</b> | September 2022 | Materials today: Proceedings                     | Y. Brucely, Manas Ranjan Sahoo , Shubhajit Halder <b>A Sathish Kumar</b> , Lukesh Parida, <i>Investigating mechanical strength of luffa and pineapple fibre reinforced polymer composite</i> , September 22  | <a href="https://www.sciencedirect.com/science/article/pii/S221478532205595X?dgcid=author">https://www.sciencedirect.com/science/article/pii/S221478532205595X?dgcid=author</a> |
| 29 | <b>Mr. S. Prathap Singh</b> | November 2022  | AIP Conference Proceedings                       | <b>N. Aagashram, J. Immanuel Durai Raj, A. Andrew Raymond Raj, S. Prathap Singh</b> , <i>CFDGAN: A generative adversarial network for flow approximation</i> , AIP Conference Proceedings 2446, November (2022).   | <a href="https://doi.org/10.1063/5.0108335">https://doi.org/10.1063/5.0108335</a>   |
| 30 |                             | December 2022  | Journal of Ceramic Processing Research           | <b>D. Elil Raja</b> , S. Prathap Singh, V. Rangarajan, M. Chrispin Das, <i>Tribological and characterization studies of aluminium alloy 6061 reinforcement with aluminium oxide and copper metal matrix composites</i> , Vol. 23, No. 6, pp. 926~933 (2022)                    | <a href="https://doi.org/10.36410/jcpr.2022.23.6.926">https://doi.org/10.36410/jcpr.2022.23.6.926</a>   |
| 31 |                             | June 2022      | Material Today Proceeding                        | <b>S.Prathap Singh</b> , D. X. Tittu George, M. Maria Jebin, <i>Optimization of WEDM control parameters for machining of functionally graded Al6061-10 %Al<sub>2</sub>O<sub>3</sub> composite</i> , 63, June 2022.   | <a href="https://www.sciencedirect.com/science/article/pii/S2214785322023173">https://www.sciencedirect.com/science/article/pii/S2214785322023173</a>                           |
| 32 |                             | June 2022      | Material Today Proceeding                        | <b>S.Prathap Singh</b> , D. Ananthapadmanaban, K. Arun Vasantha Geethan, P. Ravichandran, <i>Microscopical and corrosion studies on Al6061 - 10% Al<sub>2</sub>O<sub>3</sub> functionally graded metal matrix composites</i> , 62(2), June 2022.                               | <a href="https://www.sciencedirect.com/science/article/pii/S2214785322019174">https://www.sciencedirect.com/science/article/pii/S2214785322019174</a>                           |



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| 33 |                                  | June 2022   | Material Today Proceeding  | <b>T. Prabhuram</b> , S. Prathap Singh, J. Immanuel Durairaj, D. Elilraja, M. Chrispin Das, D. Arthur Jebastine Sunderraj, <i>Optimization of operation parameters in machining of functionally graded metal matrix composite using TOPSIS</i> , 62(2), June 2022.          | <a href="https://doi.org/10.1016/j.matpr.2022.03.562">https://doi.org/10.1016/j.matpr.2022.03.562</a>   |
| 34 |                                  | June 2022   | Material Today Proceeding  | <b>Chrispin Das M</b> , Arthur Jebastine Sunderraj D, Arun Vasantha Geethan K, Elilraja D, Prabhuram T and Prathap Singh S, <i>Mechanical and Moisture Absorption behavior of Woven Pineapple Leaf Phenol Formaldehyde Composites</i> , 62(2), June 2022.                   | <a href="https://www.sciencedirect.com/science/article/pii/S2214785322028401">https://www.sciencedirect.com/science/article/pii/S2214785322028401</a> |
| 35 |                                  | August 2022 | Material Today Proceeding  | <b>Ramesh Krishnan</b> , K. Gnanasekaran, D. Elil Raja, S. Jagadeesh, S. Prathap Singh, <i>Experimental study of micro-EDM on EN24 steel with normal brass, tin coated brass, cryogenic treated brass tool by varying the machining parameters</i> , 66(4), September 2022. | <a href="https://www.sciencedirect.com/science/article/pii/S2214785322038287">https://www.sciencedirect.com/science/article/pii/S2214785322038287</a> |
| 36 | <b>Mr. S. A. Muhammed Abraar</b> | August 2022 | AIP Conference Proceedings | <b>Muhammad Abraar S A</b> , Ananthapadmanaban D, <b>Harish R, Gokul M, Ganesh R</b> , <i>Modelling of Conventional Tyre with Different 3D Printing Materials</i> , 2460, August 2022.  | <a href="https://aip.scitation.org/doi/abs/10.1063/5.0096148?journalCode=apc">https://aip.scitation.org/doi/abs/10.1063/5.0096148?journalCode=apc</a> |