

List of Publications in M.E. Department

Year- 2024

[1] Manish Maurya, Ambrish Maurya, Sudhir Kumar, Variants of friction stir based processes: Review on process fundamentals, material attributes and mechanical properties, Accepted, will be published online in February, Materials Testing, Impact factor:2.5

Year- 2023

[1] M. Vishnoi, S. Rai, N. Verma, Manish Maurya, Stir Cast AA 6351/Graphene/TiB₂/Rice Husk Ash Composite: Fabrication and Assessment of Mechanical Properties, Accepted, Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, (2021) Impact Factor: 2

[2] S. Kumar, Manish Maurya, T. Sharma, Optimization and ANFIS-based Modeling of Two Step FSSW Process Parameters on Tensile Strength Accepted, Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, (2021) <https://doi.org/10.1177/09544062231202143> Impact Factor: 2

Year- 2022

[1] S. P. Dwivedi, P. Pachauri, Manish Maurya et al. Alumina catalyst waste utilization for aluminum-based composites using the friction stir process, Materials Testing, vol. 64, no. 4, 2022, pp. 533-540. <https://doi.org/10.1515/mt-2021-2074> Impact Factor:1.58

[2] S. P. Dwivedi, Manish Maurya, S. Sharma, Synthesis and Characterization of Cr, Eggshell and Grinding Sludge Reinforced Aluminium based metal matrix composite: An Ingenious Experimental approach, Green Materials, <https://doi.org/10.1680/jgrma.21.00035> (2022) Impact Factor: 2.08

Year- 2021

[3] S. P. Dwivedi, N K. Maurya, Manish Maurya, A. Saxena, A. K. Srivastava, Optimization of Casting Parameters for Improved Mechanical Properties of Eggshell Reinforced Composite,

Materials Testing, (2021), 63(11), 1041-1051. <https://doi.org/10.1515/mt-2021-0044> Impact Factor : 1.58

[4] S. P. Dwivedi, Manish Maurya, A. Saxena, S. Sharma, Synthesis and Characterization of Spent Alumina Catalyst and Grinding Sludge Reinforced Aluminium Based Composite Material, Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, (2021) Impact Factor: 1.76

[5] S. Kumar, K. Kumar, Manish Maurya, Vishal, Parametric optimization of Friction Stir Processing on micro-hardness of Al/B4C composite, International Journal of Materials Research, vol. 112, no. 11, 2021, pp. 898-909 2021, <https://doi.org/10.1515/ijmr-2020-8027> Impact Factor: 0.75

[6] S. Kumar, S. Jambhale, Manish Maurya, Sanjeev Kumar, Saurabh Pandey, Evaluation of shear force and fractography of friction stir spot welded joints of AA 6082-T6 alloy, Journal of Engineering Research, Nov. 2021, DOI: <https://doi.org/10.36909/jer.10265> Impact Factor: 0.64

[7] A. K. Srivastava, A. R. Dixit, Manish Maurya, A. Saxena, N K. Maurya, S. P. Dwivedi, R. Bajaj, 20th century Uninterrupted Growth in friction stir processing of light weight composites and alloys, Materials Chemistry and Physics, (2021), DOI: 10.1016/j.matchemphys.2021.124572 Impact Factor: 4.09

[8] A. K. Srivastava, Manish Maurya, A. Saxena, N K. Maurya, S. P. Dwivedi, A. R. Dixit, Microstructural and fractographic analysis of A359/Si3N4 surface composite produced by multi-pass friction stir processing, International Journal of Materials Research, (2021), 112 (1), 68-77. Impact Factor: 0.74

Year- 2020

[1] A. K. Srivastava, N K. Maurya, A. R. Dixit, S. P. Dwivedi, A. Saxena, M. Maurya, Experimental investigations of A359/Si3N4 surface composite produced by multi-pass friction stir processing, Materials Chemistry and Physics, (2020), Impact Factor: 4.09

[2] Manish Maurya, Sudhir Kumar, and Vivek Bajpai, Nagendra Kumar Maurya, Process, parameters, development and application of stir casted composite: a review (2020) 62(2):196-208. Material Testing Journal, Impact Factor: 1.5

Year- 2019

[1] Manish Maurya, Sudhir Kumar, and Vivek Bajpai, Assessment of the mechanical properties of aluminium metal matrix composite: A review, Journal of Reinforced Plastics and Composites (2018), 38(6):267-298. Impact Factor:3.71

Research Papers in SCOPUS Indexed International Journals

Year – 2023

[1] Dwivedi, S.P., Manish Maurya, & Sharma, S. Mechanical and Microstructure Behavior of Cladding Surface SS-304 Coating with Ni and Al₂O₃ by Microwave Technique. J. Inst. Eng. India Ser. C 104, 797–803 (2023). <https://doi.org/10.1007/s40032-023-00947-8>

Year – 2022

[1] Manish Maurya, Ambrish Maurya, Sudhir Kumar, An overview of an overview of recent development and application of friction stir processing technique, Evergreen Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, (2022) Accepted, online in September

Year- 2021

[1] S. P. Dwivedi, S. Sharma, Manish Maurya, Study of CCLW, Alumina and the Mixture of Alumina and CCLW reinforced Aluminum Based Composite Material with and without Mechanical Alloying, Journal of The Institution of Engineers (India): Series D, (2021) <https://doi.org/10.1007/s40033-021-00312-y>

[2] S. P. Dwivedi, M. Maurya, S. Chauhan, Mechanical, Physical and Thermal Behavior of SiC and MgO Reinforced Aluminium Based Composite, EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 08, Issue 02, 318-327, June, 2021.

[3] Karan, P. Pachauri, A. Kumar, M. Maurya, Effect of powder metallurgy on high entropy alloy materials: A review, Materials Today Proceeding <https://doi.org/10.1016/j.matpr.2021.04.529> (2021)

[4] N. K. Maurya, Manish Maurya, A. Saxena, A. Tyagi et al., (2021), Investigation of mechanical properties and form error of the components fabricated by rapid prototyping: A review, Materials Today Proceeding, <https://doi.org/10.1016/j.matpr.2021.03.553>

[5] Maurya, N.K., Maurya, M., Dwivedi, S.P., Srivastava, A.K., Saxena, A., Chahuan, S., Tiwari, A. and Mishra, A. (2021), "Investigation of effect of process variable on dimensional accuracy of FDM component using response surface methodology", World Journal of Engineering, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/WJE-08-2020-0347>

[6] A. K. Srivastava, Manish Maurya, A. Saxena, N. K. Maurya, S. P. Dwivedi, Statistical Optimization by Response Surface Methodology of Process Parameters During the CNC Turning Operation of Hybrid Metal Matrix Composite, EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 07, Issue 01, 15-25, March, 2021.

Year- 2020

[1] A. K. Srivastava, N. K. Maurya, Manish Maurya, S. P. Dwivedi, A. Saxena, Effect of Multiple passes on Microstructural and Mechanical properties of Surface composite Al 2024/SiC Composite Produced by Friction stir processing, Annales de Chimie- Science des Matériaux,, Vol.44, Issue 6, pp-421-426, December, 2020.

[2] Manish Maurya, Sudhir Kumar, Nagendra Kumar Maurya, Composite Prepared via Friction Stir Processing Technique: A review, Revue des Composites et des Matériaux Avancés. Vol.30, Issue 3-4, pp-143-151, August, 2020.

[3] A. K. Srivastava, S. P. Dwivedi, N. K. Maurya, Manish Maurya, 3D visualization and topographical analysis in turning of hybrid MMC by CNC lathe SPRINT 16TC made of BATLIBOI, EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 07, Issue 02, pp202-208, June, 2020.

[4] S. P. Dwivedi, Manish Maurya, N. K. Maurya, A. K. Srivastava, S. Sharma, A. Saxena, Utilization of Groundnut Shell as Reinforcement in Development of Aluminum Based Composite to Reduce Environment Pollution: a review, EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 07, Issue 01, pp15-25, March, 2020

Year- 2019

[1] S. P. Dwivedi, N K Maurya, Manish Maurya. Assessment of hardness on AA 2014/Eggshell composite produced via electromagnetic stir casting method, Evergreen Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 06, Issue 04, December, 2019.

[2] S.P. Dwivedi, A.K. Srivastava, N K Maurya, Manish Maurya. (2019). Microstructure and mechanical properties of Al 6061/Al₂O₃/fly-ash composite fabricated through stir casting.

Annales de Chimie – Science des Matériaux, Vol. 43, No. 5, pp. 341-346.
<https://doi.org/10.18280/acsm.430510>

[3] Manish Maurya, Nagendra Kumar Maurya, Vivek Bajpai, Effect of SiC Reinforced Particle Parameters in the Development of Aluminium Based Metal Matrix Composite, Evergreen Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 06, Issue 03, pp 200-206, September, 2019.

[4] S P Dwivedi, N K Maurya, Manish Maurya. Effect of uncarbonized eggshell weight percentage on mechanical properties of composite material developed by electromagnetic stir casting technique. Revue des Composites et des Matériaux Avancés, (2019) Vol. 29, No. 2, pp. 101-107.

[5] N K Maurya, Manish Maurya, A k Srivastava, A Gupta, S P Dwivedi, Investigation of mechanical properties of Al 6061/SiC composite prepared through stir casting technique, Materials Today, Proceeding (2019).

Year- 2017

[1] Manish Maurya, Nagendra Kumar Maurya, Fabrication of A359 Alloy Reinforced With B4C Particulates & Characterization of Mechanical Properties, International Journal of Advance Research in Science and Engineering, (2017) 6:532-538. [UGC approved Journal]

Award:

Received Best paper award titled 'Study of CCLW, Alumina and the Mixture of Alumina- and CCLW-Reinforced Aluminum-Based Composite Material with and Without Mechanical Alloying' (published in Series D, Volume 103 Issue 1) from THE INSTITUTION OF ENGINEERS (INDIA) in 2023.

1. Tripathi, Akhileshwar Mani, Sudipto Sarkar and Subrata Kumar Ghosh .Pseudoplastic Fluid Flow Over Rectangular Cylinders Near a Plane Wall. Proceedings of the 10 th Interantional and 50 th National Conference on Fluid Mechanics and Fluid Power (FMFP)December 20-22, 2023, IIT Jodhpur, India. (Accepted)

2. Tripathi, Akhileshwar Mani, Subrata Kumar Ghosh, and Sudipto Sarkar."Two dimensional unsteady flow past a square cylinder: Influence of proximal plane wall and power-law index." Ocean Engineering 240 (2021): 109896.<https://doi.org/10.1016/j.oceaneng.2021.109896>, Impact Factor: 3.795.

3. A.M.Tripathi “Failure Analysis of Cam gear & Auxiliary gear” International Conference on Computational and Experimental Methods in Mechanical Engineering G.L.Bajaj Institute of Technology and Management, Greater Noida (U.P) India ICCEMME-2017 8th – 9th December 2017, ISBN : 978-93-8617185-6.

4. A.M.Tripathi, Ram Jatan Yadav “Failure Analysis of Alumino Thermic Welded Rail” International Journal of Latest Trends in Engineering and Technology Vol.(8)Issue(3), pp.192-197 DOI: <http://dx.doi.org/10.21172/1.83.028> e-ISSN:2278-621X.

5. A.M.Tripathi, “Finite Element Analysis of Hard Turning: A Review” INTERNATIONAL CONFERENCE ON MANUFACTURING EXCELLENCE (MANFEX 2012) 29-30 MARCH 2012, NOIDA, UTTAR PRADESH.

6. A.M.Tripathi, K.V.Sai Srinadh “Failure Analysis of Protector Screen Grid” INTERNATIONAL CONFERENCE ON MANUFACTURING EXCELLENCE (MANFEX 2012) 29-30 MARCH 2012, NOIDA, UTTAR PRADESH.

7. A.M.Tripathi,K.V.Sai Srinadh “Failure Analysis of Rail Road Wheel” NATIONAL CONFERENCE ON RECENT ADVANCES IN MECHANICAL ENGINEERING (NCRAME 2011) 1, 392, 2011 JULY 2011, GUNTUR, ANDHRA PRADESH.