

Research Publications – ME

RESEARCH PUBLICATIONS IN JOURNALS

2020

- **Joginder Singh and M.R.Tyagi**, “Effect of Angular Orientation of Continuous Fibers on the Extensional Properties of Carbon Fiber Composites”, Lecture Notes in Mechanical Engineering, ISSN No.: 21954356, 21954364, Springer Nature , https://doi.org/10.1007/978-981-15-5519-0_1, Sep 2020.
- **Joginder Singh and M.R.Tyagi**, “Variation of Shear Properties in Carbon Fiber Composites as Extensional Forces Applied with Different Fiber Orientation”, International Conference on Mechanical and Energy Technologies (ICMET), 2019, November, Galgotia College of Engineering & Technology, Greater Noida, UP, Smart Innovation, Systems and Technologies, 427-438, https://doi.org/10.1007/978-981-15-2647-3_38.
- **Sanjay Taneja**, “Effect of Tyre Unbalance on Performance of Vehicle”, International Journal of Mechanical Engineering and Technology (IJMET)”, Volume 11, Issue 12, December 2020, pp. 12-18, Article ID: IJMET_11_12_002, <http://www.iaeme.com/ijmet/issues.asp>, ISSN Print: 0976-6340 and ISSN Online: 0976-6359.
- **Pradeep Kumar Mouria**, “Measurement of residual stress on H13 tool steel during machining for fabrication of FSW/FSP tool pins”, Materials Today: Proceedings, www.elsevier.com/locate/matpr, <https://doi.org/10.1016/j.matpr.2020.11.656>, 2214-7853.

2019

- **J. P. Sharma**, “Prediction of Universal Joint Behavior Under Small Axial Loading Using FEM”, in Indian Journal of Science and Technology, ISSN: 0974-6846, pp. 12(9), March 2019: 1-7
- **Gianender Kajal**, Himanshu Garg, “A Systematic Review: Effect of TIG and A-TIG Welding on Austenitic Stainless Steel”, Advances in Industrial and Production Engineering, ISSN NO. 2195-4356 pp: 375-385, April 2019
- **Dr Sujata Nayak**, “An Experimental Drying Study of Locally available Medicinal Plants by hybrid mixed even span Greenhouse dryer. International Conference on “SOLARIS-2019”, in International Conference on Renewable Energy & Sustainable Climate held at amia Millia Islamia, New Delhi and Hi-Institute of Engineering and Technology, Ghaziabad from 7-9 February 2019.
- **Joginder Singh**, M R Tyagi, Gurpreet Singh and Ravi Dutt Sharma, “Design, Analysis and Manufacturing of Front Sprocket of a Bicycle using Carbon Fiber Reinforced Plastics”, in IOP Conf. Series: Journal of Physics, ISSN: 1742-6596,

August 2019.

- Rahul Sharma, Sumit Kumar Shaw, S.Somesh, Mukul Bhatia, **Joginder Singh and Jai Prakash Sharma**, “Prediction of Universal Joint Behavior Under Small Axial Loading Using FEM”, in Indian Journal of Science and Technology, ISSN (Online) : 0974-5645, pp. 12(9), March 2019: 1-7

2018

- Harpreet Singh, Himanshu Rawat, Mayank Sadhra & **Prashant Bhardwaj**, “Cutting Tool Prognostic using Markov Model”, Indian Journal of Science and Technology 11(45), ISSN No.: 0974-6846, December 2018: 1-4
- Himanshu Garg, **Joginder Singh**, M.R. Tyagi, Kunal Singh, K. Aditya, Himanshu Gupta, “Comparative Study of Sheet Metal and Carbon Fiber Reinforced Composites Ceiling Fan Blade”, Lecture Notes in Mechanical Engineering,ISSN No.: 2195-4356, October 2018.
- **Joginder Singh**, M. R. Tyagi, Abdul Ahad, Abhinav Chawla, Dinesh Kashyap, Vinay Prabhakar, “Evaluation Of Tensile Properties Of Hot Rolled Carbon Steel Using Finite Element Analysis”, Lecture Notes in Mechanical Engineering,ISSN No.: 2195-4364, October 2018.
- **Joginder Singh**, M R Tyagi, **Ajit, Gianender and Rinki Yadav**, “Design and Manufacturing of a holding fixture to test the tensile strength of a flat specimen”, International Journal of Applied Engineering Research, ISSN No.: 2195-4356, October 2018.
- **Joginder Singh and Rinki Yadav**, “Implementation of CATIA V5 in Modeling and Simulation of Workbench Vice”, International Journal of Emerging Technologies in Engineering Research, ISSN No.: 2454-6410, May 2018.
- **J. P. Sharma**, “Textiles for protection against Electromagnetic Radiations: A review”, International Journal of Engineering Research and Applications, 8(6) Part-III, 2018: 32-37 ISSN No.: 2248-9622.
- Smriti Mishra,**Prashant Bhardwaj**, Neha Badhauria, “Reliability and Availability Analysis for a Manufacturing Network by using Active Redundancy”, International Journal of Applied Engineering Research, 13(6), 2018: 116-126 ISSN No.: 0973-4562.
- Sanjay Taneja, “LPG (Liquified Petroleum Gas) as a Fuel”, International Journal of Emerging Trends in Engineering and Development, 3(8), 2018: 26-30 ISSN No.: 2249-6149 May 2018.
- **R.Yadav, J.P. SHARMA, Gianender & Rekha Yadav**, “Prediction of Mechanical and Wear Properties of Al-6061/MoS₂ (Molybdenum Disulphide) Composites”, International Journal of Innovative Research in Science, Engineering and

Technology, 6(8), 2017: 15839-15849 ISSN No.: 2319-8753.

- Paras Mittal, **Gianender & R. Yadav** “Wear Behaviour of Aluminium 7075 based Composites Reinforced with SiC, Red Mud and Al₂O₃”, International Journal for Research in Applied Science & Engineering Technology, 6(IV), 2018: 2802-2816 ISSN No.: 2321-9653.
- Pramod Yadav, A.Kumar, P.Kumar & **Gianender**, “Reverse Engineering on Process Cycle Time in a Medium Scale Industry – Data Anthology”, International Journal for Research in Applied Science & Engineering Technology, 5(XI), 2017: 196-202 ISSN No.: 2321-9653.
- **Gianender & Rekha Yadav**, “Process Parameter Selection for Optimizing the Mechanical Properties of Stainless Steel (SS 202 & SS 316) in the Gas Tungsten Arc Welding”, International Journal of Innovative Research in Science, Engineering and Technology, 6(IV), 2018: 2684-2695 ISSN No.: 2321-9653.
- **Gianender & Rekha Yadav**, “Process Parameter Selection for Optimizing the Weld Pool Geometry of Stainless Steel (SS 202 & SS 316) of the TIG”, International Journal for Research in Applied Science & Engineering Technology, 6(IV), 2018: 2674-2683 ISSN No.: 2321-9654.
- Pratibha Malik, Astha Sharma, **Gianender & J.P Sharma**, “Textiles for protection against Electromagnetic Radiations: A review”, International Journal of Engineering Research and Applications, 8(6) Part-III, 2018: 32-37 ISSN No.: 2248-9622.
- Somesh S., Sumit Kumar Shaw, **Piyush Mahendru**, “A Comprehensive Review on LiBr–H₂O Based Solar-Powered Vapour Absorption Refrigeration System”, Advances in Interdisciplinary Engineering, August ISSN No.: 2195-4356.

2017

- Dr Sujata Nayak has published a book chapter title “Solar Drying Technology” Concept, Design, Testing, Modelling, Economics and Environment in November 2017 in Springer.
- Dr Sujata Nayak has published a book chapter title “Renewable Energy Technology” Design, Development and exergy analysis of a hybrid PV solar dryer in Narosa Publishing House.
- **Dr Sujata Nayak** and Kapil Narwa “Economic Analysis of hybrid Photovoltaic-Thermal (PV/T) Integrated Indirect type Solar Dryer” Solar Drying Technology (Springer, Singapore) Book: Solar Drying Technology pp 515-528 ISSN No.:978-981-10-3832-7
- Dr Sujata Nayak has presented a paper titled” Experimental drying study of Pudina by mixed hybrid greenhouse dryer” in International Conference on IRECS 2018 in Goa on 19thto 21stJanuary, 2018.
- Ajit, Mandeep Bhadana, Gianender, “Occupational health hazards of welding

workers: Piping Industry Perspective” International Journal of Emerging Trends in Science and Technology, Volume 4, Issue 09, September (2017), **pp.6039-46, I.F-4.219.**

- Pramod Yadav, Ajay Kumar Agarwal, Pradeep Kumar Mouria, Gianender, Dr. Rakesh Kumar, “Reverse Engineering on Process Cycle Time in a Medium Scale Industry – Data Anthology” International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 5 Issue X1, November 2017, **pp.196-202, I.F-6.8**
- Jai Prakash Sharma, Gianender, Rekha Yadav, “Prediction of Mechanical and Wear Properties of Al-6061/MoS₂ (Molybdenum Disulphide) Composites” International Journal of Innovative Research in Science, Engineering and Technology, Vol. 6, Issue 8, August 2017, **PP.15839-849, I.F-7.089.**
- Kuldeep Singh, Gianender, Ajay Kumar Agarwal & Ajit, “Effect of Dielectric fluids used on EDM Performance: A Review”, International Journal of Emerging Technologies in Engineering Research (IJETER) Volume 5, Issue 10, October (2017),**pp.10-16,I.F-4.225**
- Tarun Tiwari, Ajit, Gianender, “A Review of Working Fluid Combinations used in Diffusion Absorption Refrigeration Technologies” IJRASET, Volume 05, Issue XI, November, 2017, **pp.2105-2111, I.F-6.887**
- Mahesh Pandey, Ashutosh Pandey, Ajit, Gianender, “Electricity generation using vertical axis wind turbine:design and development,InternationalJournal of Advance Research in Science and Engineering, Vol. No. 06,Special Issue No.(02), Dec. 2017, pp. 234-44.

Publications 2016

- OPTIMIZATION OF CUTTING PARAMETERS FOR SURFACE ROUGHNESS IN TURNING OF ALLOY STEEL EN47” in IJARMET, Vol 2 Issue 4. oct-Dec 2016, Jai Prakash Sharma
- Remaining Useful Life (RUL) Estimation of a Turning Tool Using Statistical Trend Exploration Technique August 2016, Prashant Bhardwaj, Smriti Mishra , Prashant Vashishtha
- Optimal Availability Analysis of Brake Drum Manufacturing System by using Markov Approach August 2016, Smriti Mishra , Prashant Bhardwaj, Neha Bhadouri