

Articles/Chapters published in Books

Session 2017-18

1. A. Gupta, V. K. Patel, R. Kant, S. Bhattacharya “Surface Modification Strategies for Fabrication of Nano-Bio devices, 161-185, 2017” ISBN: 9781-11940638-9.
2. VK Patel, S Bhowmik, Plasma Processing of Aluminum Alloys to Promote Adhesion: A Critical Review, Progress in Adhesion and Adhesives, John Wiley & Sons, Inc. 3 (2018) 77-100.
3. N. Rawat, V.K. Patel, Fluoride Remediation from Drinking Water, Water Remediation (Ed. Bhattacharya S., Gupta A., Gupta A., Pandey A.) Energy, Environment, and Sustainability. Springer, Singapore Print ISBN 978- 981-10-7550-6.

National/International Journal

Session 2016-17

1. A. S. Rathaur, J.K. Katiyar, V.K. Patel, S. Bhaumik, A. K. Sharma” A Comparative Study of Tribological and Mechanical Properties of Composite Polymer Coatings on Bearing Steel” International Journal of Surface Science and Engineering, ISSN 1749-785X.
2. V. K. Patel, S. Chauhan, J.K. Katiyar “Physico-mechanical and wear properties of novel sustainable sour-weed fiber reinforced polyester composites”, Materials Research Express, ISSN: 2053-1591.
3. V. K. Patel, Pradyumn Kumar, S. Bhattacharya “Mechanical, microstructural and sliding wear properties of friction stir welded AA6063-T6 and AA5052-H32 aluminium alloys”, Materials Focus, ISSN: 2169-429X.
4. V. K. Patel, S.Bhattacharya, “Solid state green synthesis and catalytic activity of CuO nanorods in thermal decomposition of potassium periodate”, Materials Research Express, ISSN:2053-1591.
5. V. K. Patel, N. Rawat, “Physico-mechanical Properties of Sustainable Sagwan teak Wood Flour/polyester Composites with/without gum Rosin”, Sustainable Materials and Technologies, ISSN: 2214-9937.
6. V. K. Patel, S. Bhowmik, “Plasma Processing Of Aluminum Alloys to Promote Adhesion: A Critical Review,”, Reviews of Adhesion and Adhesives, ISSN:2168-0965.
7. V. K. Patel, Komal Rani” Mechanical and wear Properties of friction Stir welded 0–6wt% nAl₂O₃ reinforced Al 13wt% Si composites” Strojnícky casopis–Journal of Mechanical Engineering, ISSN: 2450-5471.
8. V. K. Patel, P. Sundriyal, S. Bhattacharya” Aloe vera vs. Poly(ethylene) glycol based synthesis and relative catalytic activity investigations of ZnO nanorods in thermal decomposition of potassium perchlorate” Particulate Science and Technology, 35(2017) 361-368, ISSN: 0272-6351.
9. S. Kumar, T.Verma, B. Khatri, A. Kumar, V. K. Patel “Biowastes (fish Scale and pine cone) Based hybrid polymer Composites for Tribological Applications”, Asian Journal of Science and Technology, 08 (2017) 4489-4492, ISSN: 0976-3376.
10. S. Kumar, L. Prasad, V. K. Patel “Effect of Hybridization of Glass/kevlar fiber on Mechanical properties of bast reinforced polymer composites: A Review” American

- Journal of Polymer Science & Engineering, 5 (2017) 13-23, ISSN: 2572-5734.
11. Joshi Amit & all “Influence of cryorolling and followed by annealing on high cycle fatigue behavior of ultrafine grained Al 2014 alloy”, Materials Characterization, ELSEVIER Publication,. Volume 127 Page no 253-271, 2017.
 12. Joshi Amit & all “Fatigue Behavior of Ultrafine-Grained 5052 Al Alloy Processed Through Different Rolling Methods.”, Journal of Materials Engineering and Performance, SPRINGER Publication , Volume 26 Page no 2826-2836, 2017.

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13. V. K. Patel, A. Dhanola “Influence of CaCO₃, Al₂O₃, and TiO₂ Microfillers on Physicomechanical Properties of luffa cylindrica/polyester Composites” Engineering Science and Technology, an International Journal 19 (2016) 676–683, ISSN: 2215-0986.
14. A. Gupta, V. K. Patel, R. Kant, S. Bhattacharya “Surface modification Strategies for Fabrication of nanobiodevices: A critical Review”, Reviews of Adhesion and Adhesives 4 (2016) 166-191, ISSN:2168-0965.
15. V. K. Patel, A. Gupta, D. Singh, R. Kant, S. Bhattacharya, “Surface functionalization to Mitigate fouling of Biodevices: A critical Review” Reviews of Adhesion and Adhesives 3 (2015) 444-478, ISSN:2168-0965.
16. V. K. Patel, J. R. Saurav, K. Gangopadhyay, S. Gangopadhyay, S. Bhattacharya” Combustion characterization and Modeling of novel Nanoenergetic Composites of Co₃O₄/nAl” RSC Advances 5 (2015) 21471-21479, ISSN:2046-2069.
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18. V. K. Patel, S. Bhattacharya “High Performance Nanothermite composites based on aloe vera-directed CuO nanorods” ACS Applied Materials & Interfaces 5 (2013), 13364-13374, ISSN:1944-8244.
19. Gupta, A., Jain P. K. and Kumar D., A Performance Evaluation Model for Manufacturing System with Reconfigurable Configuration, International Journal of Advanced Manufacturing system 2015, Vol. 15 , No. 2, pp 59-66, ISSN : 2229-5860 SCOPUS cited.
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22. Joshi Amit & all “Effect of Cryo groove Rolling followed by Warm rolling (CGW) on Mechanical Properties of 5052 Al alloy”, Materials and Manufacturing Processes, TAYLOR & FRANCIS, Publication Volume 13 Page no. 1336-1344 2016.
23. Joshi Amit & all “Microstructural Evolution, Precipitation Sequence, and Fracture Toughness of Cryorolled Al-Cu-Si alloy”, Metallography, Microstructure, and Analysis, ASM International SPRINGER publication. Volume 5 Page no 540-556, 2016.

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1. S. Kumar, Y. Kumar, B. Gangil, V.K. Patel “Effects of agro-waste and bioparticulate fillers on mechanical and wear properties of Sisal fiber based polymer composites” Materials Today Proceeding,4 (2017) 10144-10147 ISSN: 2214-7853.
2. S. Kumar, B. Gangil, L. Prasad, V.K. Patel ” A Review on Mechanical Behaviour of Bast-Glass Fibres Based Hybrid Polymer Composites”, Materials Today Proceeding, 4 (2017) 9576-9580, ISSN: 2214-7853.
3. V. K. Gautam, A. Kumar, L. Prasad, V. K. Patel “An Experimental Investigation on Slurry Erosion Wear Characteristics of Brass Alloy”, Materials Today Proceeding, 4 (2017) 9879-9882 ISSN: 2214-7853.

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4. S. Kumar, B. Gangil, V. K. Patel,” Physico-mechanical and tribological properties of Grewia-Optiva fiber/bioparticulates hybrid polymer composites” AIP Proceeding 1728 (2016) 020120, ISSN: 0094-243X.
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6. M. Painully, V. K. Patel, S. Bhattacharya, “Influence of MnC2O4 Microadditives on Combustion Characteristics of CuO/Al Nanoenergetics”, AIP Proceeding 1728 (2016) 020269, ISSN: 0094-243X.
7. Gupta G, Gupta A, Dhanola A and Raturi A, Mechanical behavior of glass fiber polyester hybrid composite filled with natural fillers , IConAMMA 2016, International Conference on Advances in Materials and Manufacturing Applications, 14-16 July 2016 (Indexed in Scopus).
8. Rawat G, Gupta A and Juneja C, Productivity Measurement of Manufacturing System, International Conference on processing of material, minerals and energy, 2016, PACE institute of technology and science Ongole, India. 29-30 July 2016 (Indexed in scopus).

Session 2014-15

9. Gourav Gupta, Ashutosh Gupta, Bhanu Pratap, A Review on BANANA FIBRE COMPOSITES, NCRAME 2014, 26-27 Sep, GBPEC, Pauri, India,2014.
10. Bhatt V, Gupta A, BhanuPratap, A review on Thermal Spray Coating , NCRAME, 2014, 26-27 Sep 2014, GBPEC Pauri India.
11. Pradeep Barthwal, Pradeep Kothiyal, Amit Joshi, Deepti Rawat “Optimization of process parameters and their effect on MRR and surface roughness in WEDM of cryogenically treated ASSAB tool steel, in WEDM using Response Surface Methodology (RSM)” under the processing in proceedings of international conference on optimisation and parametric modelling-2014 october 6-7-2014 NIT Hamirpur Himachal Pradesh India.