

MME department Faculty Publications

2021

1. A.K. Revelly et al., 'Synthesis and characterization of $\text{Ca}_{1-x}\text{Ba}_x\text{Cu}_3\text{Ti}_4\text{O}_{12}$ ($x = 0$ & 0.05)', *Materials Today: Proceedings*, 41 (2021) 1202.
2. Ajay Kumar V et al., 'A review on latest trends in derived technologies of Friction Stir Welding', *Intelligent Manufacturing and Energy Sustainability*, 213 (2021) 239.

2019

1. A.K. Revelly et al., 'Evaluation of Microstructure and Mechanical Properties for Friction Stir Welding of Aluminium HE-30 Plate', *Materials Science Forum*, 969(2019) 720.
2. A. Ashok Kumar et al., 'Effect Of Heat Treatment On Microstructure And Properties of High Entropy Alloy Reinforced Titanium Metal Matrix Composites', *Materials Today: Proceedings* 18 (2019) 2409.
3. A. Ashok Kumar et al., 'Microstructural Evolution of Inconel 718 During Pancake Forging', *Trans Indian Inst Met*, 72 (2019)1485.
4. Ajay Kumar V. et al., 'Effect of metal oxide nanoparticles on Godavari river water treatment', *International Conference on Inventive Research in Material Science and Technology AIP Conf. Proc.*, 1966 (2018) 020003.

2018

1. A.K. Revelly, 'Microtexture Study: Effect of Different Irradiation Sources on Zirconium and its Alloys', *Applied Mechanics and Materials*, 877 (2018) 3.
2. A. Ashok Kumar et al., 'Effect of aluminum addition on the properties of CoCuFeNiTi high entropy alloys', *Materials Today: Proceedings* 5 (2018) 26823.

2017

1. Kiran Kumar Atyam et al., 'Enhanced reactivity and selectivity of asymmetric oxa-Michael addition of 20-hydroxychalcones in carbon confined spaces', *Chem. Commun.*, 53 (2017) 6029.
2. Kiran Kumar Atyam et al., 'Metal-free carbon as a catalyst for oxidative coupling: solvent-enhanced poly-coupling with regioselectivity', *Green Chem.*, 19(2017) 4533
3. Ajay Kumar V. et al., 'pH as a Structure Director in the Synthesis of Copper Molybdates', *Mat.Sci.Res.India*; 14 (2017) 2.
4. Ajay Kumar V. et al., 'Nanosilica Extraction from Rice Husk: Green Corrosion Inhibitor for Brass in 1M HNO_3 Solution', *International Journal of Emerging Technology and Advanced Engineering*, 7 (2017) 2250.

2016

1. Kiran Kumar Atyam et al., 'CoFe₂O₄-decorated carbon nanotubes for the dehydration of glucose and fructose', *New J. Chem.*, 40 (2016), 4468.
2. Kiran Kumar Atyam et al., 'Surface modification of ferrite nanoparticles with dicarboxylic acids for the synthesis of 5-hydroxymethylfurfural: a novel and green Protocol', *RSC Adv.*, 6(2016) 76795.
3. Kiran Kumar Atyam et al., 'Surface modification of polyhedral nanocrystalline MgO with imidazolium carboxylates for dehydration reactions: a new approach', *RSC Adv.*, 6 (2016) 82591.
4. Ajay Kumar V. et al., 'Corrosion Analysis of Friction Stir-Welded Brass-Brass and Copper-Copper Samples', *Journal of Corrosion Science and Engineering*, 19 (2016) 1466.
5. Ajay Kumar V. et al., 'Phase Transformation of Iron Oxide Nanoparticles from Hematite to Maghemite in Presence of Polyethylene Glycol: Application as Corrosion Resistant Nanoparticle Paints' *Journal of Nanoscience*, 2016 (2016) 1.
6. Ajay Kumar V. et al., 'Zero- and One-Dimensional Polyoxomolybdate Based Solids: Supramolecular synthons as structure directors', *International Journal of Modern Sciences and Engineering Technology*, 3(2016) 2349.
7. Ajay Kumar V. et al., 'Synthesis and Characterization of Docetaxel Loaded Solid Lipid Nanoparticles for Drug Delivery', *International Journal of Engineering Science and Computing*, 6 (2016) 6686.
8. Ajay Kumar V. et al., 'ZnO thin film: Synthesis and Characterization', *International Journal of Nanoscience and Nanotechnology*, 1 (2016) 2456.

2015

1. Ajay Kumar V. et al., 'Quantitative and Qualitative Analysis of Silicon extracted from Godavari river sand, Kandakurthi, Telangana, India', *International Journal of Engineering Research & Technology*, 4 (2015) 2278.
2. Ajay Kumar V. et al., 'ZnO Nanostructures: Simple Routes of Synthesis', *International Journal of Engineering Research & Technology*, 4 (2015) 2278.

2013

1. Kiran Kumar Atyam et al., Recent progress of N-heterocyclic carbenes in heterogeneous catalysis, *Catal. Sci. Technol.*, 3(2013) 2161.