

## **List of Journal publications:**

1. Sankar, Vijaya K; Ashok, M; Effect of preparation method on structural, morphological, optical properties and photocatalytic activities of visible light active semiconductor  $\text{PbBi}_2\text{Nb}_2\text{O}_9$  for various organic pollutant dyes, Journal of Materials Science in Semiconductor Processing, 106, 104773, 2020.
2. Helen Selvi, M; Reddy Vanga, Pradeep; Harinee, S; Ashok, M; Synthesis of bulk  $\text{g-C}_3\text{N}_4/\text{Bi}_2\text{WO}_6$  nanocomposite for effective photocatalytic reaction and for antimicrobial activity by hydrothermal method, Journal of Research on Chemical Intermediates, 46, 1165–1181, 2020.
3. Sankar, Vijaya K; Ashok, M; Significantly enhanced photo catalytic activities of  $\text{PbBi}_2\text{Nb}_2\text{O}_9(\text{Bulk})/\text{TiO}_2(\text{Nano})$  hetero structured composites for methylene blue dye degradation under visible light, Journal of Materials Chemistry and Physics, 244, 122659, 2020.
4. Nikhil, V P; Wiston, Biny R; Ashok, M; Flaw detection and monitoring over corroded surface through ultrasonic C-scan imaging, Journal of Engineering Research Express, 2, 1, 2020.
5. Manojkumar P; Lokeshkumar E; Saikiran A; Govardhanan B; Ashok M; Rameshbabu N; Visible light photocatalytic activity of metal (Mo/V/W) doped porous  $\text{TiO}_2$  coating fabricated on Cp-Ti by plasma electrolytic oxidation, Journal of Alloys and Compounds, 154092, 2020.
6. Ashok, M; Deepika, S; Sowndharya, P; Muthukumar, K; Cotton candy driven chitosan and gelatin coated poly(styrene-co-acrylonitrile) microfibers for anti-microbial wound dressing applications, Journal of Materials Research Express, 6, 12, 2019.
7. Praveena, P; Ashok, M; Facile synthesis of hierarchical microsphere-like layered double hydroxide for non-enzymatic selective detection of dopamine, Journal of Materials Research Express, 6, 12, 2019.
8. Wiston, Biny R; Ashok, M; Microwave-assisted synthesis of cobalt-manganese oxide for supercapacitor electrodes, Journal of Materials Science in Semiconductor Processing, 103, 104607, 2019.
9. Harinee, S; Muthukumar, K; Dahms, Hans-Uwe; Koperuncholan, Marimuthu; Vignesh, Sivanandham; Banu, Rajesh J; Ashok, M; Arthur James, R; Biocompatible nanoparticles with enhanced photocatalytic and anti-microfouling potential, International Biodeterioration & Biodegradation, 145, 104790, 2019.
10. Harinee, S; Muthukumar, K; Abirami, A; Amrutha, K.; Dhivyaprasath, K; Ashok, M; UV-light Photocatalytic Activity of Biocompatible Nanoparticles Provide Multiple Effects, Journal of Advanced Materials Proceedings, 4(3), 115-118, 2019.

11. Sangeetha, K; Vidhya, G; Girija, E K; Ashok, M; Fabrications of magnetic responsive hydroxyapatite platform: In vitro release of chemo drug for cancer therapy, Journal of Materials Today Proceeding, 2019.
12. Srinivasan, S. SaiGuru; Govardhanan, B; Aabel, P; Ashok, M; Santhosh Kumar, M C; Effect of oxygen partial pressure on the tuning of copper oxide thin films by reactive sputtering for solar light driven photocatalysis, Journal of Solar Energy, 187, 368-378, 2019.
13. Wiston, Biny R; Ashok, M; Electrochemical activity of nickel-iron layered double hydroxide synthesized via different synthesis strategies, AIP Conference Proceedings, 2115, 030556, 2019.
14. Praveena, P; Ashok, M; Synthesis of carbon dots/layered double hydroxide composites for non-enzymatic electrochemical sensing of hydrogen peroxide, AIP Conference Proceedings, 2115, 030085, 2019.
15. Sangeetha, K; Ashok, M; Girija, E K; Development of multifunctional cobalt ferrite/hydroxyapatite nanocomposites by microwave assisted wet precipitation method: A promising platform for synergistic chemo-hyperthermia therapy, Ceramics International, 45, 12860-12869, 2019.
16. Wiston, Biny R; Ashok, M; Electrochemical performance of hydrothermally synthesized flower-like  $\alpha$ -nickel hydroxide, Vacuum, 160, 1-7, 2019.
17. Wiston, Biny R; Ashok, M; Electrochemical performance of nickel hydroxide nanopetals for supercapacitor electrodes, Journal of Materials Letters, 235, 76-79, 2019.
18. Sangeetha, K; Ashok, M; Girija, EK; Vidhya, G; Vasugi, G; Strontium and ciprofloxacin modified hydroxyapatites as functional grafts for bone prostheses, Ceramics International, 44, 12, 13782-13789, 2018.
19. Selvi, M Helen; Vanga, Pradeep Reddy; Ashok, M; Photocatalytic application of  $\text{Bi}_2\text{WO}_6$  nanoplates structure for effective degradation of methylene blue, Optik, 173, 227-234, 2018.
20. P. Michael SL Shanthi, Periyayya Uthirakumar, T. Balasubramanian, M. Ashok; Influence of Bicationic and Catanionic Surfactants Over the Morphology of Mesoporous Nanohydroxyapatite, Journal of Nanoscience and Nanotechnology, 18, 10, 7064-7071, 2018.
21. Bismibanu, A; Vanga, Pradeep Reddy; Selvalakshmi, Thangaraj; Ashok, M; Alagar, M; Investigations on Structural, Optical and Multiferroic Properties of Bismuth Ferrite Nanoparticles Synthesized by Sonochemical Method, Journal of Electronic Materials, 47, 11, 6373-6377, 2018.

22. Muthukumar, K; Harinee, S; Dahms, Hans-Uwe; Sivanandham, Vignesh; Seeni, Palanichamy; Gopalan, Subramanian; Ashok, M; Arthur James, Rathinam; Biogenic corrosion inhibitor on mild steel protection in concentrated HCl medium, *Nature Scientific Reports*, 8, 2609, 2018.
23. Pradeep Reddy Vanga; R. V. Mangalaraja; M. Ashok, Magnetic Properties and Photocatalytic Behavior of Co Co-doped BiFeO<sub>3</sub>:Er, *J Supercond Nov Magn*, 31, 89–97, 2018.
24. Lakshmi Narasimhan G., Selvan G., Pradeep Reddy Vanga, Ashok M. Novel developments in Dysprosium doped Bismuth Phosphate, *Optik*, 156, 536–541, 2018.
25. Subramanian Senthilkumar, Mahalingam Ashok, Lellala Kashinath, Chinnappanadar Sanjeeviraja and Annamalai Rajendran, Phytosynthesis and Characterization of TiO<sub>2</sub> Nanoparticles using Diospyros ebenum Leaf Extract and their Antibacterial and Photocatalytic Degradation of Crystal Violet, *Smart Science*, 2017.
26. Hariprasad S., Gowtham S., Arun S., Ashok M., Rameshbabu N. Fabrication of duplex coatings on biodegradable AZ31 magnesium alloy by integrating cerium conversion (CC) and plasma electrolytic oxidation (PEO) processes, *Journal of Alloys and Compounds*, 722, 698-715, 2017.
27. PR Vanga, RV Mangalaraja, NV Giridharan, M Ashok, Influence of divalent Ni and trivalent Cr ions on the properties of ytterbium modified bismuth ferrite, *Journal of Alloys and Compounds*, 684, 1, 5561, 2016.
28. PR Vanga, RV Mangalaraja, M Ashok, Solgel synthesis and characterisation of (Nd, Cr) codoped BiFeO<sub>3</sub> nanoparticles, *Journal of Experimental Nanoscience*, 11, 17, 1348-1359, 2016.
29. PR Vanga, RV Mangalaraja, M Ashok, Effect of codoping on the optical, magnetic and photocatalytic properties of the Gd modified BiFeO<sub>3</sub>, *Journal of Materials Science: Materials in Electronics*, 27, 6, 56995706, 2016.
30. R Dhanalakshmi, M Muneeswaran, PR Vanga, M Ashok, NV Giridharan; Enhanced photocatalytic activity of hydrothermally grown BiFeO<sub>3</sub> nanostructures and role of catalyst recyclability in photocatalysis based on magnetic framework, *Applied Physics A*, 122, 1, 114, 2016.
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32. LG Narsimhan, RP Vanga, M Ashok; Synthesis of Hydroxyapatite over Keggin, *Research Journal Of Biotechnology*, 10, 4041, 2015.
33. PR Vanga, RV Mangalaraja, NV Giridharan, M Ashok, PTCR behavior of BiFeO<sub>3</sub> synthesized by the solvothermal method, *Materials Letters*, 143, 3, 230232, 2015.

34. S. Adalarasu, M. Ashok; Assessment on mechanical working of a rolled ring using ultrasonic techniques, Indian J. Res. Found., 1, 1-2, 2015.
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36. Vanga, Pradeep Reddy; Leelashree, S; Ashok, Mahalingam; Effect of Cobalt Concentration on Bi<sub>0.95</sub>Ba<sub>0.05</sub>Fe<sub>1-x</sub>Co<sub>x</sub>O<sub>3</sub>, Advanced Materials Research, 938, 85-90, 2014.
37. Reddy, Pradeep; Raja, Yesu; Ashok, M; Structural, Thermal and Magnetic Analysis of Co<sub>2</sub>FeO<sub>4</sub> Spinel Oxide Synthesized by Co-Precipitation Process, Advanced Materials Research, 895, 287-290, 2014.
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39. Swapna, R; Ashok, M; Muralidharan, G; Kumar, MC Santhosh; Microstructural, electrical and optical properties of ZnO: Mo thin films with various thickness by spray pyrolysis, Journal of Analytical and Applied Pyrolysis, 102, 68-75, 2013.
40. Sandhyarani, M; Rameshbabu, N; Venkateswarlu, K; Ravisankar, KV; Ashok, M; Anandan, S; Photocatalytic and Antibacterial Activity of Titanium, Fluorine and Silver Co-Substituted Hydroxyapatite, International Journal of Modern Physics: Conference Series, 22, 268-277, 2013.