

## **List of Journal publications:**

1. K Ravichandran, AJ Santhosam, M Sridharan, Effect of tungsten doping on the ammonia vapour sensing ability of ZnO thin films prepared by a cost effective simplified spray technique, *Journal of Surfaces and Interfaces*, 18, 100412, 2020.
2. M Manimohan, S Pugalmani, K Ravichandran, MA Sithique, Synthesis and characterisation of novel Cu (ii)-anchored biopolymer complexes as reusable materials for the photocatalytic degradation of methylene blue, *RSC Advances*, 10 (31), 18259-18279, 2020.
3. M Padma, S Shanmugam, K Ravichandran, Sodium silicate assisted manganese phosphate chemical conversion coating on D2 steel at various Concentration, *Journal of Surfaces and Interfaces*, 100547, 2020.
4. RV Vijayalakshmi, K Ravichandran, PP Kumar, Investigation on the impact of different stabilizing agents on structural, optical properties of Ag@ SnO<sub>2</sub> core-shell nanoparticles and its biological applications, *Journal of Molecular Liquids*, 112951, 2020.
5. V Sathiya Narayanan, P Varun Prasath, K Ravichandran, D Easwaramoorthy, Zohreh Shahnavaz, Faruq Mohammad, Hamad A Al-Lohedan, Suriati Paiman, Won Chun Oh, Suresh Sagadevan, Schiff-base derived chitosan impregnated copper oxide nanoparticles: An effective photocatalyst in direct sunlight, *Journal of Materials Science in Semiconductor Processing* 119, 105238, 2020.
6. NS Jyothi, K Ravichandran, Optimum pH for effective dye degradation: Mo, Mn, Co and Cu doped ZnO photocatalysts in thin film form, *Ceramics International* 46 (14), 23289-23292, 2020.
7. G Saravanan, V Asvini, RK Kalaiezhily, K Ravichandran, Effect on Annealing Temperature (T<sub>a</sub>) of Ternary Full Fe<sub>2</sub>CrSi Heusler Alloy Nanoparticles for Spin-Based Device Applications, *Journal of Superconductivity and Novel Magnetism*, 1-6, 2020.
8. KS Seelan, K Ravichandran, P Kavitha, PK Praseetha, Simultaneous doping of higher ionic state metal and surface plasmon resonance-inducing element with ZnO: an effective approach to improve photocatalytic dye degradation, *Journal of Applied Physics A* 126 (9), 1-16, 2020.
9. K Ravichandran, C Dhanraj, P Kavitha, O<sub>2</sub>-enhancement and recombination delay through Ta+ gC<sub>3</sub>N<sub>4</sub> addition with ZnO for effective photocatalytic dye decomposition, *Journal of Surfaces and Interfaces*, 20, 100629, 2020.
10. RV Vijayalakshmi, K Ravichandran, S Selvarani, Investigation on luminescence properties using second-generation (G2) triazolyl chalcone dendrimer as stabilizing agent in Ag@ SnO<sub>2</sub> core-shell nanoparticles, *Journal of Materials Science: Materials in Electronics* 31 (17), 14295-14305, 2020.

11. DS Vasanthi, K Ravichandran, P Kavitha, S Sriram, PK Praseetha, Combined effect of Cu and N on bandgap modification of ZnO film towards effective visible light responsive photocatalytic dye degradation, *Journal of Superlattices and Microstructures* 145, 106637, 2020.
12. K Ravichandran, C Dhanraj, MM Ibrahim, P Kavitha, Enhancing the photocatalytic efficiency of ZnO thin films by the addition of Mo and rGO, *Journal of Materials Today: Proceedings*, 2020.
13. K Ravichandran, KS Seelan, MM Ibrahim, P Kavitha, Improved solar light responsive photocatalytic activity of ZnO: W films: Effect of W loading level, *Journal of Materials Today: Proceedings*, 2020.
14. AJ Santhosam, K Ravichandran, M Shkir, M Sridharan, Effect of La incorporation on the NH<sub>3</sub> sensing behaviour of ZnO thin films prepared using low-cost nebulizer spray technique, *Journal of Materials Science: Journal of Materials in Electronics*, 31 (16), 13240-13248, 2020.
15. C Dhanraj, K Ravichandran, P Kavitha, PK Praseetha, Excess free-electrons activated photocatalytic ability of ZnO films through co-doping of higher oxidation state transition metals Ta and Mo, *Inorganic Chemistry Communications*, 118, 107986, 2020.
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17. V Asvini, G Saravanan, RK Kalaiezhily, V Ganesan, K Ravichandran, Soft Ferromagnetic Properties of Half-Metallic Mn<sub>2</sub>CoAl Heusler Alloy Nanoparticles for Spintronics Applications, *Journal of Superconductivity and Novel Magnetism*, 1-8, 2020.
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19. Varun Prasath Padmanabhan, Ravichandran Kulandaivelu, Vijayaraj Venkatachalam, Sarath Chandra Veerla, Faruq Mohammad, Hamad A Al-Lohedan, Won Chun Oh, Romana Schirhagl, Prasanna Kumar Obulapuram, Md Enamul Hoque, Suresh Sagadevan, Influence of sonication on the physicochemical and biological characteristics of selenium-substituted hydroxyapatites, *New Journal of Chemistry* 44 (40), 17453-17464, 2020.
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