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**Last five years publication list**

1. Sivakumar, N., G. Anbalagan, and R. Jayavel. "Reply to "the comments on the paper: Crystal design, thermal and dielectric behavior of novel silver (Ag) co-ordinated thiourea single crystals"." *Materials Letters* 280 (2020): 128674.
2. Rajasekaran, Palani, et al. "Effect of Sb substitution on structural, morphological and electrical properties of BaSnO<sub>3</sub> for thermoelectric application." *Physica B: Condensed Matter* 597 (2020): 412387.
3. Venkatamuthukumar, J., et al. "Synthesis, structure and spectroscopic investigations of a metal-organic crystal: Thiourea silver nitrate for optical devices." *AIP Conference Proceedings*. Vol. 2265. No. 1. AIP Publishing LLC, 2020.
4. Pavithra, S., et al. "Bioengineered 2D Ultrathin Sharp-Edged MgO Nanosheets Using *Achyranthes aspera* Leaf Extract for Antimicrobial Applications." *Journal of Inorganic and Organometallic Polymers and Materials* (2020): 1-14.
5. Dasi, Gnyaneshwar, et al. "Enhanced UV emission of solution processed highly transparent Alq<sub>3</sub>/ZnO hybrid thin films." *Thin Solid Films* 710 (2020): 138265.
6. Subhasree, S., et al. "Anticorrosion Behavior of ZnO Nanoparticles Coated on Mild Steel in NaCl Solution." *Journal of Nanoscience and Nanotechnology* 20.7 (2020): 4061-4068.
7. Nagaraju, P., et al. "High-performance electrochemical capacitor based on cuprous oxide/graphene nanocomposite electrode material synthesized by microwave irradiation method." *Emergent Materials* 2.4 (2019): 495-504.
8. Dhanasekar, K., et al. "A facile preparation, performance and emission analysis of pongamia oil based novel biodiesel in diesel engine with CeO<sub>2</sub>: Gd nanoparticles." *Fuel* 255 (2019): 115756.
9. Sivaraj, M., et al. "Study on Photo-Catalytic and Antimicrobial Activity of Green Synthesized TiO<sub>2</sub> Nanoparticles Coated Vitrified Tiles." *Journal of Nanoscience and Technology* (2019): 836-839.

10. Kumar, R. Dhinesh, R. Thangappan, and R. Jayavel. "Structural, Morphological and Photocatalytic Activity of YMnO<sub>3</sub> Nanorods." *Journal of nanoscience and nanotechnology* 19.4 (2019): 2385-2390.
11. Felix, Sathiyathan, Andrews Nirmala Grace, and Ramasamy Jayavel. "Sensitive electrochemical detection of glucose based on Au-CuO nanocomposites." *Journal of Physics and Chemistry of Solids* 122 (2018): 255-260.
12. Manibalan, Gunasekaran, et al. "Enhanced electrochemical supercapacitor and excellent amperometric sensor performance of heterostructure CeO<sub>2</sub>-CuO nanocomposites via chemical route." *Applied Surface Science* 456 (2018): 104-113.
13. Kumar, D. Dinesh, et al. "Film thickness effect and substrate dependent tribo-mechanical characteristics of titanium nitride films." *Surfaces and Interfaces* 12 (2018): 78-85.
14. Kumar, R. Dhinesh, R. Thangappan, and R. Jayavel. "Enhanced visible light photocatalytic activity of LaMnO<sub>3</sub> nanostructures for water purification." *Research on Chemical Intermediates* 44.7 (2018): 4323-4337.
15. Selvakumar, Duraisamy, et al. "Freestanding flexible nitrogen doped-reduced graphene oxide film as an efficient electrode material for solid-state supercapacitors." *Journal of Alloys and Compounds* 723 (2017): 995-1000.
16. Kumar, D. Dinesh, et al. "Tribo-mechanical properties of reactive magnetron sputtered transition metal carbide coatings." *Tribology International* 114 (2017): 234-244.
17. Shanmugam, Mahalingam, et al. "In-situ microwave synthesis of graphene-TiO<sub>2</sub> nanocomposites with enhanced photocatalytic properties for the degradation of organic pollutants." *Journal of Photochemistry and Photobiology B: Biology* 163 (2016): 216-223.
18. Murugadoss, G., Thangamuthu, R., Jayavel, R., & Kumar, M. R. (2015). Narrow with tunable optical band gap of CdS based core shell nanoparticles: Applications in pollutant degradation and solar cells. *Journal of Luminescence*, 165, 30-39.
19. Kumar, D.D., Kumar, N., Kalaiselvam, S., Dash, S. and Jayavel, R., 2015. Substrate effect on wear resistant transition metal nitride hard coatings: microstructure and tribo-mechanical properties. *Ceramics International*, 41(8), pp.9849-9861.
20. Reghuram, S., A. Arivarasan, R. Kalpana, and R. Jayavel. "CdSe and CdSe/ZnS quantum dots for the detection of C-reactive protein." *Journal of Experimental Nanoscience* 10, no. 10 (2015): 787-802.