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Last 5 years publication list

1. Rajasekaran, Palani, et al. "Effect of Sb substitution on structural, morphological and electrical properties of BaSnO3 for thermoelectric application." *Physica B: Condensed Matter* 597 (2020): 412387.
2. Kaliammal, R., et al. "Crystal growth, structural, optical, thermal, and mechanical properties of new bis (2-amino-6-methyl pyridinium barbiturate) tetrahydrate organic single crystal for nonlinear optical applications." *Chinese Journal of Physics* (2020).
3. Devi, N. Yalini, et al. "Effect of Gd and Nb co-substitution on enhancing the thermoelectric power factor of nanostructured SrTiO3." *Ceramics International* (2020).
4. Raja, A., et al. "Rational fabrication of needle with spherical shape ternary reduced Graphene Oxide-HoVO4-TiO2 photocatalyst for degradation of ibuprofen under visible light." *Applied Surface Science* 513 (2020): 145803.
5. Parvathy, G., et al. "Growth, experimental and theoretical investigations on 4-hydroxy-3-methoxybenzaldehyde 5-chloro-2-hydroxybenzoic acid: A new high second order nonlinear optical material." *Journal of Molecular Structure* (2020): 128406.
6. Ramadoss, N., et al. "Effect of B 4 C and SiC nanoparticle reinforcement on the wear behavior and surface structure of aluminum (Al6063-T6) matrix composite." *SN Applied Sciences* 2.5 (2020): 1-16.
7. Arunbalaji, S., et al. "CuO/MoS2 nanocomposites for rapid and high sensitive non-enzymatic glucose sensors." *Ceramics International* (2020).
8. Raja, Annamalai, et al. "Efficient Photoreduction of Hexavalent Chromium Using the Reduced Graphene Oxide–Sm2MoO6–TiO2 Catalyst under Visible Light Illumination." *ACS omega* 5.12 (2020): 6414-6422.
9. Ismail, M. Mohamed, et al. "Facile preparation of Mn 3 O 4/rGO hybrid nanocomposite by sol–gel in situ reduction method with enhanced energy storage performance for

supercapacitor applications." *Journal of Sol-Gel Science and Technology* 93.3 (2020): 703-713.

10. Jayachandiran, J., et al. "Investigation on ozone-sensing characteristics of surface sensitive hybrid rGO/WO 3 nanocomposite films at ambient temperature." *Advanced Composites and Hybrid Materials* 3.1 (2020): 16-30.
11. Ismail, M. Mohamed, et al. "Facile preparation of Mn 3 O 4/rGO hybrid nanocomposite by sol–gel in situ reduction method with enhanced energy storage performance for supercapacitor applications." *Journal of Sol-Gel Science and Technology* 93.3 (2020): 703-713.
12. 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.
13. Dhanasekar, K., et al. "A facile preparation, performance and emission analysis of pongamia oil based novel biodiesel in diesel engine with CeO2: Gd nanoparticles." *Fuel* 255 (2019): 115756.
14. Arivanandhan, Mukannan, et al. "Crystallization and re-melting of Si1-xGex alloy semiconductor during rapid cooling." *Journal of Alloys and Compounds* 798 (2019): 493-499.
15. Thangappan, R., et al. "Facile synthesis of RuO2 nanoparticles anchored on graphene nanosheets for high performance composite electrode for supercapacitor applications." *Journal of Physics and Chemistry of Solids* 121 (2018): 339-349.
16. Chandrasekaran, P., et al. "The impact of sintering temperature on structural, morphological and thermoelectric properties of zinc titanate nanocrystals." *Materials Research Express* 4.7 (2017): 075036.
17. Kumar, V. Nirmal, et al. "Effects of varying indium composition on the thermoelectric properties of In x Ga 1− x Sb ternary alloys." *Applied Physics A* 122.10 (2016): 885.
18. Manimuthu, V., et al. "Reduction of the surface roughness of Ge-on-insulator layers up to sub-nanometer range by chemical mechanical polishing." (2016).
19. Inatomi, Yuko, et al. "Growth of In x Ga 1− x Sb alloy semiconductor at the International Space Station (ISS) and comparison with terrestrial experiments." *npj Microgravity* 1.1 (2015): 1-6.
20. Vadivel, M., et al. "Role of SDS surfactant concentrations on the structural, morphological, dielectric and magnetic properties of CoFe 2 O 4 nanoparticles." *RSC Advances* 5.34 (2015): 27060-27068.