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### **Last five years publication list**

#### **2020 Year Publications**

1. Hydrothermal Assisted Precipitation Synthesis of Highly Stable g-C<sub>3</sub>N<sub>4</sub>/BiOBr/CdS Photocatalyst with Enhanced Visible Light Photocatalytic Degradation of Tetracycline, K Perumal, S Shanavas, A Karthigeyan, T Ahamad, SM Alshehri, P Murugakoothan, Diamond and Related Materials, 108091

#### **2019 Year Publications**

2. Single-walled carbon nanotubes/lithium borohydride composites for hydrogen storage: role of in situ formed LiB(OH)<sub>4</sub>, Li<sub>2</sub>CO<sub>3</sub> and LiBO<sub>2</sub> by oxidation and nitrogen annealing, L Vellingiri, K Annamalai, R Kandasamy, I Kombiah, RSC advances 9 (54), 31483-31496

#### **2018 Year Publications**

3. Effect of annealing temperature on oxygen reduction reaction of reduced graphene oxide incorporated cobalt oxide nanocomposites for fuel cell applications, P Gokuladeepan, A Karthigeyan, Applied Surface Science 449, 705-711
4. Characterization and hydrogen storage properties of SnO<sub>2</sub> functionalized MWCNT nanocomposites, L Vellingiri, K Annamalai, R Kandasamy, I Kombiah, International Journal of Hydrogen Energy 43 (22), 10396-10409
5. Synthesis and characterization of MWCNT impregnated with different loadings of SnO<sub>2</sub> nanoparticles for hydrogen storage applications, L Vellingiri, K Annamalai, R Kandasamy, I Kombiah, International Journal of Hydrogen Energy 43 (2), 848-860

#### **2017 Year Publications**

6. Conventional hydrothermal synthesis of titanate nanotubes: Systematic discussions on structural, optical, thermal and morphological properties, S Muniyappan, T Solaiyammal, K Sudhakar, A Karthigeyan, P Murugakoothan, Modern Electronic Materials 3 (4), 174-178
7. morphological properties, Modern Electronic Materials, S Muniyappan, T Solaiyammal, K Sudhakar, A Karthigeyan, P Murugakoothan

8. Development of Gas Sensor and Optical Properties of Zinc Oxide Nanorods by Simple Hydrothermal Approach, GN Narayanan, K Annamalai, Materials Today: Proceedings 4 (11), 12070-12074
9. Heavy metal ion effluent discharge containment using magnesium oxide (MgO) nanoparticles, TC Madzokere, A Karthigeyan, Materials Today: Proceedings 4 (1), 9-18

### **2016 Year Publications**

10. Role of hexamethylenetetramine concentration on structural, morphological, optical and electrical properties of hydrothermally grown zinc oxide nanorods, GN Narayanan, K Annamalai, Journal of Materials Science: Materials in Electronics 27 (11), 12209-12215
11. Visible light photocatalytic activities of  $\text{ZnFe}_2\text{O}_4/\text{ZnO}$  nanoparticles for the degradation of organic pollutants, R Rameshbabu, N Kumar, A Karthigeyan, B Neppolian, Materials Chemistry and Physics 181, 106-115
12. Room temperature magnetoelectric coupling in  $\text{BaTi}_{1-x}\text{Cr}_x\text{O}_3$  multiferroic thin films, A Sundararaj, G Chandrasekaran, HA Therese, K Annamalai, Journal of Applied Physics 119 (2), 024107
13. Influence of different concentrations of Cetyltrimethylammonium bromide on morphological, structural and optical properties of Zinc Oxide nanorods, GN Narayanan, A Karthigeyan, Materials Today: Proceedings 3 (6), 1762-1767