

List of Publications

- [1] **Chandan Rana**, Swades Ranjan Bera and Satyajit Saha, Growth of SnS nanoparticles and its ability as ethanol gas sensor, *Journal of Materials Science: Materials in Electronics* 30 (2019) 2016-2029.
- [2] **Chandan Rana** and Satyajit Saha, Structural, optical and electrical characterization of SnS nanomaterials grown at different temperatures, *Journal of Materials Science: Materials in Electronics* 30 (2019) 21160-21169.
- [3] **Chandan Rana** and Satyajit Saha, Growth and study of tin sulfide nanocrystals by precipitation technique using triethylamine, *Materials Today: Proceedings* 11 (2019) 667–672.
- [4] **Chandan Rana** and Satyajit Saha, Synthesis, Characterization and Photocatalytic Activity of SnS Nanocrystals, *Journal of Physical Sciences* 22 (2017) 175-182.
- [5] **Chandan Rana**, Swades Ranjan Bera and Satyajit Saha, Comparison of Current-Voltage Characteristics of the fabricated SnS/Si and SnS:Ag/Si Heterojunction Solar Cell Under Dark and Illumination, *Journal of Electronic Materials* 50 (2021) 1177–1188.
- [6] **Chandan Rana** and Satyajit Saha, Fabrication and characterization of natural Dye Sensitized Solar cells based on SnS, *Emergent Materials* (2021) 1-11, DOI:10.1007/s42247-021-00245-y.
- [7] **Chandan Rana** and Satyajit Saha, Fabrication and characterization of Dye Sensitized Solar Cell based on green synthesized SnS nanoparticles (Communicated).
- [8] **Chandan Rana** and Satyajit Saha, Molecular interaction of SnS nanoparticles with bovine serum albumin, *AIP Conference Proceedings*, AIP (2021).

- [9] Kamal Bera, Satyajit Saha, **Chandan Rana** and Paresh Chandra Jana, Composition Dependent Structural and Optical Properties of Nanocrystallites $Zn_xCd_{1-x}S$, Physical Science International Journal 10 (2016) 1-6.
- [10] S.Saha, A.K.Bhunia, **C.Rana**, C.Samanta, S.Guchhait, R.Bhattacharya, Structural and Optical Characterization of CdS Nanoparticles Grown in Different Solvents, IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) 13 (2017), 12-17.
- [11] A K Mishra, **C Rana** and S Saha, Fabrication and comparison of Heterojunction solar cells from CdS/PbS nanoparticles and CdS/PbS bulk, Nano Express 1 (2020) 020024.