

List of Publications:

1. **B. Bharati**, A K Sonkar, N Singh, D Dash and Chandana Rath. Enhanced photocatalytic degradation of dyes under sunlight using biocompatible TiO₂ nanoparticles. **Mater. Res. Express**, 4 (2017) 085503 .
2. **B. Bharati**, N.C. Mishra, D. Kanjilal, Chandana Rath. 500 keV Ar²⁺ ion irradiation induced anatase to brookite phase transformation and ferromagnetism at room temperature in TiO₂ thin films. **Applied Surface Science**, 428 (2018)723–729.
3. **B. Bharati**, N.C. Mishra, Chandana Rath. Effect of 500 keV Ar²⁺ ion irradiation on structural and magnetic properties of TiO₂ thin films annealed at 900 °C. **Applied Surface Science**, 455 (2018) 717–723.
4. **B. Bharati** and Chandana Rath 2018. Study of structural and magnetic properties of Mn doped TiO₂ nanoparticles, **AIP Conference Proceedings**, 1942 (2018) 050134.
5. **B. Bharati**, N. C. Mishra, A. S. K. Sinha and Chandana Rath. Unusual Structural Transformation and Photocatalytic Activity of Mn Doped TiO₂ Nanoparticles under Sunlight (Communicated) 2019.
6. **B. Bharati** and Chandana Rath. Photocatalytic Activity of TiO₂ Nanoparticles on the Surface of Cement Pellets under Sunlight (Communicated) 2019.
7. **B. Bharati** and Chandana Rath. Photocatalytic Study of Cement/TiO₂ Composite under Sunlight by Degrading Organic Dyes (To be Communicated).
8. **B. Bharati** and Chandana Rath. Effect of Calcination Temperature on Photocatalytic Behavior of TiO₂ Nanoparticles under Sunlight by Degrading Organic Dyes (To be Communicated).

