

SULAKSHANA MONDAL

Assistant Professor, Department of Physics

Sarsuna College, 4/H B/A-Ho-Chi-Minh Sarani, Sarsuna Upanagari, Kolkata- 700061.

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Academic Qualifications

- **Ph.D. in Science (Jadavpur University)**
- **M.Sc. in Physics (Jadavpur University)**
- **B.Sc. in Physics (Honours) (Jadavpur University)**
- **NET Qualified**

Teaching and Research Experience

- **Assistant Professor, Sarsuna College (2017 -till date)**
- **Senior Research Fellow, Indian Association for the Cultivation of Science (2016-2017)**
- **Junior Research Fellow, Indian Association for the Cultivation of Science (2014-2016)**

Research Interest/Area

- **Synthesis, fabrication, and characterization of semiconducting oxide films**
- **Optical and optoelectrical applications of nanocomposite materials**

Publications in Refereed Journals

- Mondal, S., Das, A. & Basak, D. Impact on the structural and photophysical properties of TiO₂ films owing to Li implantation. J Mater Sci: Mater Electron 35, 2168 (2024).
- Mondal, Sulakshana, and Durga Basak. "Plasmon assisted high ultraviolet to visible broad band photosensitivity in lateral Ag NPs-TiO₂ nanocomposite film." Surfaces and Interfaces 31 (2022): 102090.
- Mondal, Sulakshana, and Durga Basak. "Very high photoresponse towards low-powered UV light under low-biased condition by nanocrystal assembled TiO₂ film." Applied Surface Science 427 (2018): 814-822.
- Bera, A., Das Mahapatra, A., Mondal, S., & Basak, D. (2016). Sb₂S₃/Spiro-OMeTAD inorganic-organic hybrid p-n junction diode for high performance self-powered photodetector. ACS Applied Materials & Interfaces, 8(50), 34506-34512.
- Mondal, S., and D. Basak. "Defect controlled tuning of the ratio of ultraviolet to visible light emission in TiO₂ thin films." Journal of Luminescence 179 (2016): 480-486.