

## Teachers' Profile

1. **Name of the faculty member:** Dr. Supriya Mondal

2. **Designation:** Assistant Professor

3. **Specialization:** X-Ray and Crystallography

4. **Contact Information:**

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5. **Academic Qualifications:**

College/University from which the degree was obtained	Abbreviation of the degree
Sambhunath College, Labpur, Birbhum /The University of Burdwan	B.Sc(Hons) in Physics
Jadavpur University	M.Sc. in Physics
Indian Association for the Cultivation of Science (Jadavpur University)	Ph. D

6. **Date of joining in W.B.E.S:** 20.02.2015

7. **Date of joining in this College:** 02.08.2016

8. **Research Interests:** Condensed Matter Physics and Devices Physics

9. **Publications:**

**1. Strain-Induced Tunable Band Gap and Morphology-Dependent Photocurrent in RGO– CdS Nanostructures.**

**Supriya Mondal**, Suparna Sudhu, Shatabda Bhattacharya, **Shyamal K Saha**.

**The Journal of Physical Chemistry C**, 2015,119 (49), 27749-27758

**2. Tunable Color in 2, 6-Diaminopyridine-Functionalized Graphene Oxide**

**Supriya Mondal**, Diptiman Dinda, Bikash Kumar Shaw, **Shyamal K Saha**

The Journal of Physical Chemistry C, 2016, 120 (20), 11085-11091.

**3. Photo-induced conductivity in 2, 6-diaminopyridine functionalized graphene oxide containing Eu<sup>2+</sup> for optoelectronic applications**

**Supriya Mondal**, Abhisek Gupta, Bikash Kumar Shaw, **Shyamal K Saha**

**Optical Materials** 73 (November 2017), 555– 562

**4. Highly luminescent N-doped carbon quantum dots from lemon juice with porphyrin-like structures surrounded by graphitic network for sensing applications**

Tapas Kumar Mondal, Abhisek Gupta, Bikash Kumar Shaw, **Supriya Mondal**, Uttam Kumar Ghorai, **Shyamal K Saha**

**RSC Advances**, 2016, 6 (65), 59927-59934

**5. Pure white light emission from Rare Earth free intrinsic Metal Organic Framework and its application in WLED**

Tuhina Mondal, **Supriya Mondal**, Saptasree Bose, Debabrata Sengupta, Uttam Ghorai, **Shyamal Kumar Saha**. **J. Mater. Chem. C**, DOI: 10.1039/C7TC05215D

**6. Defect induced photoluminescence in MoS<sub>2</sub> quantum dots and effect of Eu<sup>3+</sup>/Tb<sup>3+</sup> co-doping towards efficient white light emission**

Dhrubaa Halder, Arban Ghosh, Saptasree Bose, **Supriya Mondal**, Uttam Kumar Ghorai and **Shyamal Kumar Saha**.

**Optical Materials** Volume 79, May 2018, Pages 12-20

**7. Observation of Photoluminescence, Schottky Effect and Photoconductivity in Metal Ions Coordinated Graphene Oxide (submitted in a journal)**

**Supriya Mondal**, Tapas Kumar Mondal and **Shyamal K. Saha**

**8. Observation of Optoelectronic behavior in 2D Siloxene nanosheet**

(submitted in a journal)

**Supriya Mondal**, Tapas Kumar Mondal and **Shyamal K. Saha**

**9. White light emitting Lanthanide based carbon quantum dots as toxic Cr (VI) and pH sensor (submitted in a journal)**

Tapas Kumar Mondal, **Supriya Mondal**, *Uttam Kumar Ghorai, Abhisek Gupta* and **Shyamal K. Saha**