



Dr. Sourav Banerjee

Assistant Professor

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Siksha-Bhavana, Visva-Bharati,

Santiniketan-731235,

India

Mob:+91-8861545824

Dob. 07/01/1992

Expertise and Research Interest:

Physical Chemistry

Surface Science, Heterogeneous Catalysis, Ultrafast Spectroscopy, Photoemission Spectroscopy, ARPES, ARXPS, Computational Surface Chemistry

Work experience:

Assistant Professor at Visva-Bharati University

Date of Joining: 29/12/2020

Education:

1. Post Doctorate in Surface Physics group –2020

With Prof. Juerg Osterwalder,

Area of Research: Angle Resolved PhotoElectron Spectroscopy(ARPES)

Department of Phycs,

University of Zurich, Switzerland

2. Doctor of Philosophy (Integrated-PhD)(2014-2020)

Under the supervision of Dr. Atanu Bhattacharya

Area of research: Femtosecond Spectroscopy

Department of Inorganic and Physical Chemistry,

Indian Institute of Science,

Bangalore-560012

3. Master of Science (MS, Int. PhD)(2012-2014)

Master Project Under the supervision of Dr. Atanu Bhattacharya

Department of Inorganic and Physical Chemistry,

Indian Institute of Science,

Bangalore-560012

4. Bachelor of Science (BSc)(2009-2012)

Department of Chemistry,
Visva-Bharati University,
Santiniketan-731235

Awards:

1. Best Paper Award

DAE-BRNS meeting on OPSR(2018),
RRCAT-Indore

2. Best MS Project

Indian Institute of Science,
Bangalore

Publications:

1. **Sourav Banerjee**, Anupam Bera and Atanu Bhattacharya, "Femtosecond Laser-Induced Recombinative $O+O=O_2$ Reaction on Single Crystal Pd(100) Surface Requires Thermal Assistance" Journal of Physical Chemistry C, 2018, 122, 26039-26046.
<https://doi.org/10.1021/acs.jpcc.8b08653>
2. Anupam Bera, **Sourav Banerjee**, Atanu Bhattacharya,* Nidhi Tiwari, Shambhu Nath Jha, Dibyendu Bhattacharyya, "Morphology, Stability, Structure and CO₂-Surface Chemistry of Micelle Nanolithographically Prepared Two-Dimensional Arrays of Core-Shell Fe-Pd Multicomponent Nanoparticles" Journal of Physical Chemistry C, 2018, 122, 26528-26542.
<https://doi.org/10.1021/acs.jpcc.8b09162>
3. **Sourav Banerjee**, Sharath A. Shetty, Gowrav M. N., Charlie Oommen and Atanu Bhattacharya, "Decomposition of Monopropellant HAN on Pd(100) and Ir(100) Surfaces: A DFT Study" Surface Science, 2016, 653, 1-10.
<https://doi.org/10.1016/j.susc.2016.05.005>