

Faculty Profile



Name: Dr. NABANITA PAL

Designation: Assistant Professor

Teaching Areas: Inorganic Chemistry, Physical Chemistry

Research Interests: Sol-gel synthesis of nanomaterials, porous materials, heterogeneous catalysis, adsorption and biosensing studies.

Education:

- Ph D (Sc.), Indian Association for the Cultivation of Science (IACS), Degree awarded by Jadavpur University, Kolkata, W.B,2012
- M.Sc. in Chemistry (Inorganic Chemistry as Major), University of Calcutta, Kolkata, W.B,2006
- B.Sc., University of Calcutta, Kolkata, W.B,2004

Professional Experience :

1. **2016-till date:** Assistant Professor in Chemistry, FST, IFHE, Hyderabad, India.
2. **2014-2016:** Postdoctoral Fellow, Saha Institute of Nuclear Physics, Kolkata, India.
3. **2013-2014:** Postdoctoral Research Associate in Department of Chemical Engineering, Sungkyunkwan University, Suwon, Gyeonggi-do, 440-746, South Korea.
4. **2012-2013:** Dr. D. S. Kothari Postdoctoral Fellow in Department of Chemistry, Jadavpur University, Jadavpur, Kolkata, India.
5. **2006-May:** Part-time lecturer, Department of Chemistry, Barasat Government College, Barasat, Kolkata.

Selected Publications:

PUBLICATIONS IN PEER REVIEWED JOURNALS : 25 Total citation = 299, h-index = 11 (Google scholar)

- 1 Ceria containing mesoporous silica: synthesis, properties and applications. **N. Pal**, A. K. Patra, E.-B. Cho and D. Kim. *ChemCatChem* **8 (2016) 285-303**.
- 2 A highly efficient non-enzymatic glucose biosensor based on nanostructured NiTiO₃/NiO material. **N. Pal**,* B. Saha, S. K. Kundu, A. Bhaumik and S. Banerjee. *New Journal of Chemistry* **39 (2015) 8035-8043**.
- 3 **Book chapter:** Functionalized mesoporous materials as sustainable catalyst for liquid phase catalytic transformation. **N. Pal** and A. Bhaumik. *Sustainable Catalysis Process-Elsevier, (ISBN. 9780444595676), (2015), Chapter 2, 23-60*.
- 4 Mesoporous material: a versatile support in heterogeneous catalysis for the liquid phase catalytic transformations. **N. Pal*** and A. Bhaumik. *RSC Advances* **5 (2015) 24363-24391**.
- 5 Mn-doped ordered mesoporous ceria-silica composites and their catalytic properties towards biofuel production. **N. Pal**, E.-B. Cho, D. Kim and M. Jaroniec. *Journal of Physical Chemistry C* **118 (2014) 15892-15901**.
- 6 Soft-templating strategies for the synthesis of mesoporous materials: inorganic, organic-inorganic hybrid and purely organic solids. **N. Pal** and A. Bhaumik. *Advances in Colloid and Interface Science* **189-190 (2013) 21-41**.
- 7 Self-assembled NiO-ZrO₂ nanocrystals with mesoscopic void space: an efficient and green catalyst for C-S cross-coupling reaction in water. **N. Pal** and A. Bhaumik. *Dalton Transactions* **41 (2012) 9161-9169**.