Mahasweta Nandi

Assistant Professor

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Department

Integrated Science Education and Research Centre (ISERC)

Date of Birth	November 6, 1980
Contact Address	Integrated Science Education and Research Centre (ISERC) Visva-Bharati, Siksha Bhavana Santiniketan 731 235, West Bengal, India
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Areas of Specialisation

Inorganic Chemistry

Materials Science

Qualification

2001	B.Sc. (Honours) in Chemistry	University of Calcutta
2003	M.Sc. in Chemistry (Inorganic Chemistry as Major)	University of Calcutta
2008	Ph.D. (Science)	Jadavpur University (Indian Association for the Cultivation of Science, Kolkata, India)
September 2010 - March 2011	GCOE Post-doctoral Researcher	Osaka University, Japan
April 2011 - June 2012	JSPS Post-doctoral Researcher	Osaka University, Japan
June 2016 – August 2016	Specially Appointed	Osaka University, Japan

	Assistant Professor	

Other Academic Distinctions

Qualified CSIR (NET) (2003), GATE (2003) and SLET (WBCSC) (2003)

GCOE Post-doctoral Fellowship, Japan

JSPS Post-doctoral Fellowship, Japan

Research/Teaching Experience

Assistant Professor since March, 2009 in Visva-Bharati

Life member

1) Indian Science Congress

2) Chemical Research Society of India (CRSI)

3) Indian Physical Society

4) Indian Association for the Cultivation of Science, Kolkata, India

Current Areas of Research

Nanoporous Materials

Catalysis

Adsorption

Ongoing Project

"*Fabrication of mesoporous transition metal containing frameworks: Their applications in catalysis"* under Young Scientists Scheme by Science and Engineering Research Board (SERB), Department of Science and Technology (DST), India, 2014; **Grant Amount: Rs. 24,98,000/-**

Publications

Number of Papers Published in Journals: 49

Book Chapters: 2

Conference Proceedings: 2

Invited Talks: 2

Conference Papers: 20

Selected list of publication

1. Exceptional CO_2 Adsorbing Materials under Different Conditions

Mahasweta Nandi and Hiroshi Uyama

The Chemical Record 14 (**2014**) 1134-1148

2. Porous Acrylate Monolith Supported Pd nanoparticles: Highly Active and Reusable Catalyst for Suzuki–Miyaura Reaction in Water

   Mahasweta Nandi and Hiroshi Uyama

   RSC Advances 4 (**2014**) 20847-20855

3. Unprecedented CO_2 uptake over highly porous N-doped activated carbon monoliths prepared by physical activation

   Mahasweta Nandi, Keisuke Okada, Arghya Dutta, Asim Bhaumik, Jun Maruyama, Didi Derks and Hiroshi Uyama

   Chemical Communications 48 (**2012**) 10283-10285

4. Porphyrin based porous organic polymers: novel synthetic strategy and exceptionally high CO_2 adsorption capacity

   Arindam Modak, **Mahasweta Nandi**, John Mondal and Asim Bhaumik

   Chemical Communications 48 (**2012**) 248-250

5. Organic–inorganic hybrid porous sulfonated zinc phosphonate material: efficient catalyst for biodiesel synthesis at room temperature

   Malay Pramanik, **Mahasweta Nandi**, Hiroshi Uyama and Asim Bhaumik

   Green Chemistry 14 (**2012**) 2273-2281

6. Highly ordered acid functionalized SBA-15: Novel organocatalyst for preparation of Xanthenes

   Mahasweta Nandi, John Mondal, Krishanu Sarkar, Yusuke Yamauchi and Asim Bhaumik

   Chemical Communications 47 (**2011**) 6677-6679

7. Highly Efficient Hydroformylation of 1-Hexene over an *ortho*-Metallated Rhodium(I) Complex Anchored on a 2D-Hexagonal Mesoporous Material

   Mahasweta Nandi, Paromita Mandal, Manirul Islam and Asim Bhaumik

   European Journal of Inorganic Chemistry (**2011**) 221-227

8. Fe(III)-containing mesoporous poly-(*p*-phenylenediamine): Synthesis, Characterization and Magnetic Properties

   Mahasweta Nandi, Swapan K. Das, Saurav Giri and Asim Bhaumik

   Microporous and Mesoporous Materials 142(**2011**) 557-563

9. Mesoporous lanthanum-manganese oxides with nanoscale periodicity, high surface area and ferromagnetic property

   Mahasweta Nandi, Krishanu Sarkar, Motin Sheikh and Asim Bhaumik

Microporous and Mesoporous Materials 143 (**2011**) 392-397

10. Functionalized Mesoporous Silica Supported Copper(II) and Nickel(II) Catalysts for Liquid Phase Oxidation of Olefins

    Mahasweta Nandi, Partha Roy, Hiroshi Uyama and Asim Bhaumik

    Dalton Transactions 40 (**2011**) 12510-12518

11. Fabrication of mesoporous polymer monolith: a template-free approach

    Keisuke Okada, **Mahasweta Nandi**, Jun Maruyama, Tatsuya Oka, Takashi Tsujimoto, Katsuyoshi Kondoh and Hiroshi Uyama

    Chemical Communications 47 (**2011**) 7422-7424

12. From Porous Metal Phosphates to Oxophenylphosphates: A Review

    Mahasweta Nandi, Asim Bhaumik and Nawal K. Mal

    Recent Patents on Materials Science 3 (**2010**) 151-166

13. New 3D-hexagonal mesoporous silica having high H_2 adsorption capacity

    Mahasweta Nandi, Mohona Sarkar, Krishanu Sarkar and Asim Bhaumik

    Journal of Physical Chemistry C 113 (**2009**) 6839–6844

14. Mesoporous polyaniline having high conductivity at room temperature

    Mahasweta Nandi, Rupali Gangopadhyay and Asim Bhaumik

    Microporous and Mesoporous Materials 109 (**2008**) 239-247