



Ratnadip De

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ABOUT ME

I am a doctoral researcher at Friedrich Schiller University, Jena, working in an interdisciplinary field including Photonics, non-linear vibrational spectroscopy. My role is developing and optimizing the required experimental setup and using it to study the dynamics at a thin layer interface.

EDUCATION AND TRAINING

Bachelor of Chemistry

St. Xavier's College, Kolkata [01/07/2013 – 30/05/2016]

Address: 30, Mother Teresa Sarani, Kolkata , 700016 Kolkata (India)

www.sxccal.edu

Final grade : 76.11%

Master of Science

Indian Institute of Science Education And Research Kolkata [25/07/2016 – 30/05/2019]

Address: Mohanpur, Nadia , 741246 Kalyani (India)

www.iiserkol.ac.in

Field(s) of study: Chemical Science / Chemistry

Final grade : 9.46/10

Thesis: Electroreduction of CO₂ towards fine chemicals and carbon based fuels by a molecular catalyst

WORK EXPERIENCE

Teaching Assistant

Indian Institute of Science Education And Research Kolkata [01/01/2018 – 30/06/2018]

City: Kalyani

Country: India

Junior Research Fellow

Indian Institute of Science Education And Research Kolkata [30/08/2018 – 31/01/2020]

City: Kalyani

Country: India

CONFERENCES AND SEMINARS

Symposium on facets of chemistry in biology

[St. Xavier's College, Kolkata, 2016]

Asian Meeting on Metal Oxide Assemblies

[Indian Institute of Science Education And Research Kolkata, 2017]

SASChem

[Indian Institute of Science Education And Research Kolkata, 2017]

Short course on : Polyoxometalates in Material Science, Technology and Medicine By Prof. Craig L. Hill

[Indian Institute of Science Education And Research Kolkata, 2017]

Lectures on Electrochemistry-2019

[Indian Institute of Science Education And Research Kolkata, 2019]

National Chemistry Scholars' Colloquium 2019

[Indian Institute of Science Education And Research Kolkata, 2019]

International Conference on Chemistry for Human Development

[Heritage Institute of Technology, Kolkata, 2020]

RSC Photophysics and Photochemistry Group Early Career Members Meeting

[United Kingdom, 2020]

<https://www.rsc.org/events/detail/45785/rsc-photophysics-and-photochemistry-group-early-career-members-meeting>

PUBLICATIONS

Molecular cobalt corrole complex for the heterogeneous electrocatalytic reduction of carbon dioxide.

[2019]

<https://www.nature.com/articles/s41467-019-11868-5>

Nature Communications volume 10, Article number: 3864 (2019)

Sabrina Gonglach, Shounik Paul, Michael Haas, Felix Pillwein, Sreekumar S. Sreejith, Soumitra Barman, Ratnadip De, Stefan Müllegger, Philipp Gerschel, Ulf-Peter Apfel, Halime Coskun, Abdalaziz Aljabour, Philipp Stadler, Wolfgang Schöfberger & Soumyajit Roy

Electrocatalytic Reduction of CO₂ to Acetic Acid by a Molecular Manganese Corrole Complex

[2020]

<https://doi.org/10.1002/anie.202000601>

Angew Chem Int Ed Engl. 2020 Jun 22; 59(26): 10527–10534.

Ratnadip De, Sabrina Gonglach, Shounik Paul, Michael Haas, SS Sreejith, Philipp Gerschel, Ulf-Peter Apfel, Thanh Huyen Vuong, Jabor Rabeah, Soumyajit Roy, Wolfgang Schöfberger

An Anthracene-Based Metal-Organic Framework for Selective Photo-Reduction of Carbon Dioxide to Formic Acid Coupled with Water Oxidation

[2020]

<https://pubmed.ncbi.nlm.nih.gov/33226154/>

Soumyajit Roy, SK Mostakim, Soumitra Barman, Shounik Paul, Ratnadip De, Helge Reinsch, Maciej Grzywa, Norbert Stock, Dirk Volkmer, Shyam Biswas

HONOURS AND AWARDS

Inspire Scholarship

Department of Science and Technology, India [23/06/2014]

Junior Research Fellowship

The Council of Scientific and Industrial Research [2018]

Junior Research Fellowship

The Council of Scientific and Industrial Research [2019]