



Indo-French Seminar on Catalysis for Sustainability

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Professor

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Joyanta Choudhury obtained Ph.D. in 2006 from IIT Kharagpur, India working under Professor Sujit Roy on the development of Ir-Sn heterobimetallic complexes for aromatic C–H functionalization. He then moved to The Scripps Research Institute, Florida, USA for postdoctoral work with Professor Roy A. Periana in the field of CH₄-to-CH₃OH (MTM) conversion chemistry. In 2008, he received Marie Curie International Incoming Fellowship from the European Union and went to the Weizmann Institute of Science, Israel to work with Professor Milko E. van der Boom on redox-active molecular assemblies on solid surfaces. He joined the Department of Chemistry, IISER Bhopal, India in 2011.

His research group at IISER Bhopal works primarily on (a) developing new reactions involving “*metal-NHC*” intermediates for the creation of task-specific functional molecules, (b) circular catalysis with CO₂, H₂ and biomass-derived energy carriers toward alternative fuels, and (c) reversible energy storage and delivery.

Award: Chemical Research Society of India, Bronze Medal (2019)