

## Dr. BIKASH KUMAR JENA, FRSC (UK)

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## ACADAMIC RECORD

**Ph.D.:** Ph.D., Department of Chemistry, Indian Institute of technology Kharagpur (Awarded in 2008)  
**Post Doc.:** Post-Doctoral Research Associate, Department of Chemistry University of Washington, USA (2010-2011)  
**Visiting Scientist:** Department of Chemistry, Technical University of Munich (TUM), Germany (2014)

## HONORS AND AWARDS

- Catalysis Talent 2023 – ChemCatChem, Wiley-VCH
- Featured in "WORLD'S TOP 2% SCIENTISTS" list Published by Stanford University USA (2023)
- MRSI Medal-The Materials Research Society of India 2023
- Indian Institute of Metals Award (Bhubaneswar Chapter)-2022
- Fellow of Royal Society of Chemistry, London UK-2022
- CRSI-Bronze Medal-The Chemical Research Society of India-2021
- The Samanta Chandra Sekhar Award-Odisha Bigyan Academy-2021
- Selected as Member-The National Academy of Sciences, India (NASI)-2021
- Young Scientist Platinum Jubilee Award-The National Academy of Sciences, India (NASI)-2014
- Young Scientist Award-Odisha Bigyan Academy-2013
- Young Scientist Award, Indian Society for ElectroAnalytical Chemistry-2013
- Young Scientist Award, Council of Scientific and Industrial Research(CSIR)-2011
- Young scientist award, Indian Science Congress Association-2009
- Prof. R. C. Tripathy Memorial Award (Young Scientist), Orissa Chemical Society-2008
- Utkal Pratibha Sanman 2023 (The ODM educational group awarded the " Utkal Pratibha Sanman 2023" to five peoples of Odisha including Padmashree Dr. Debiprasanna Pattanaik, Padmashree Shyamamani Devi, Dr. Itishree Samanta, Dance guru Sri Ratikanta Mohapatra and Dr. Bikash Kumar Jena)

## RESEARCH INTEREST

Synthesis of metal/ metal oxides/sulphides/phosphides materials, carbon based materials (graphene, carbon quantum dots); Study on Electrochemical energy conversion and storage applications; Photo-electrochemistry; Electrochemical splitting of water to clean energy (HER/OER); Electrochemical Conversion of CO<sub>2</sub> to valuable product; Supercapacitors.

## RESEARCH GUIDANCE:

Ph.D. Thesis (Ph.D. Supervisor): 07 Awarded+07 continuing  
M.Sc. Thesis: 16; M. Tech Thesis: 02 ; Research Associate:07; Ramanujan fellow: 02

## SPONSORED RESEARCH PROJECTS

Contributed to 30 nos of Projects:

- Sponsored Project as **Principal Investigator: 15 nos**
- Sponsored Project as **Co-PI and Member: 15 Nos**

Worked on mega-mission projects for S and T goals of nation

- Worked as project leader in a work package in the **Hydrogen mission of CSIR**
- Worked as the Project leader in a work package in the **Advanced Materials Mission of CSIR**
- Worked as the Project leader in **AI Mission on Materials of CSIR**

## RESEARCH OUTPUTS

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Research Papers published in International peer-reviewed Journals: 104

Research Papers published in International/nation conferences: 55

Invited talks: 60

Patents: 07

Book Chapters: 11

Citations: 6063

h-index: 42

[Citation indices](#)

All

[Citations](#)

6063

[h-index](#)

42

[i10-index](#)

77

## EDITORIAL RESPONSIBILITY

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- Editorial Board Member (Subject Editor) of Indian Journal of Chemistry 2021-Present
- Member, Editorial Board, Current Catalysis, Bentham Science Publishers -2016 and continuing
- Senior Editorial Board Member, General Chemistry-2019-Continuing
- Member, Editorial Board, ISRN Analytical Chemistry, Hindawi Publishing Corporation-2011
- Invited for Lead Guest Editor, Scientific World Journal, Hindawi Publishing Corporation-2012
- Associate Editor, Journal of Nanoscience Letters, Cognizure - Publishing Division-2014

## TEACHING EXPERIENCE/RECOGNITION

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### Recognised Ph.D. thesis supervisor:

- Academy of Scientific & Innovative Research (AcSIR), New Delhi, India
- Utkal University, Bhubaneswar, India
- Ravenshaw University, Cuttack, India

**Course Co-ordinator and Teaching (AcSIR, CSIR-IMMT):** *Ph.D. (Sciences) & Ph.D. (Engineering) Program*

**Visiting Faculty:** Department of Chemical Sciences Indian Institute of Science Education and Research(IISER), Berhampur (2020, 2021).

## OTHER SCIENTIFIC RESPONSIBILITIES

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- Member of many internal committees, CSIR-Institute of Minerals and Materials Technology
- Coordinator (Chemistry) for "JIGYASA" - Student-Scientist connect programme for CSIR launched by Dr. Harsh Vardhan, Minister of Science & Technology, Earth Sciences, Environment, Forests and Climate Change and Shri Prakash Javadekar, Minister of Human Resource Development.
- Co-coordinator: Central Characterization Facility, CSIR-Institute of Minerals and Materials Technology
- Protocol officer: Parliament Standing Committee (PSC) visit
- Working as member in various standing committee of CSIR-Institute of Minerals and Materials Technology
- Member of Nodal Team from IMMT for "PAN CSIR Energy Audit Team"
- Nodal Scientist: Energy theme, CSIR (Energy Conversion and related devices)
- Committee member: "Chemical and Hazardous Waste Treatment Committee" CSIR-IMMT.
- Committee member: "Publication Committee" CSIR-IMMT.
- LOC member: CHEMCON 2021
- Coordinated JIGYASA Pilot Science Experiment Demonstration (Chemistry) on 14 November 2021.

## SCIENTIFIC ACTIVITIES

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- Vice President, Orissa Chemical Society (OCS) 2024-Continuing
- Secretary-Odisha Vigyana Mandal 2023-Continuing
- Joint Secretary, Odisha Vigyana Mandal 2017-2023
- Member to the academic council of Biju Patnaik University of Technology (BPUT), Rourkela, Odisha (2022-2025)
- Member of Board of Studies for Chemistry, Department of the University, Veer Surendra Sai University of Technology (VSSUT) Burla (2022-2024)
- *JOINT SECRETARY:* Electron Microscope Society of India (EMSI) 2018-2021
- *CONVENER:* International Conference on Microscopy and Annual Meeting of Electron Microscope Society of India (EMSI 2018) Dates: July 18-20, 2018; Venue: Mayfair Convention Centre, Bhubaneswar, India
- *JOINT SECRETARY:* 12<sup>th</sup> India-Singapore Symposium (ISPS-2019) organized by Institute of Physics(IOP), Bhubaneswar, CSIR-Institute of Minerals and Materials Technology(CSIR-IMMT), Bhubaneswar, National University of Singapore(NUS) & Nanyang Technological University(NTU), Singapore.
- *CONVENER:* One-day Pre-conference workshop of EMSI 2018 "Application of Electron Probe Micro-Analyzer (EPMA).