



Murshidabad University

FACULTY ACADEMIC PROFILE / CV

Full name of the faculty member: DR. ASIT KUMAR DAS

Designation: Assistant Professor, Department of Chemistry.

Contact information: akdas.chem@gmail.com

Academic qualifications: M.Sc., Ph.D.



College/University from which the degree was obtained	Abbreviation of the degree
University of Calcutta	B.Sc.
Indian Institute of Technology Guwahati	M.Sc.
Jadavpur University	Ph.D.

Positions held/ holding: Assistant Professor, Department of Chemistry.

Former Head, Department of Chemistry, Krishnath College.

Research interests: Green Chemistry, Organic Synthesis, Heterogeneous Catalysis, Metal Nanoparticles, Biological Studies.

Research guidance: 01 (Ongoing)

Projects: R & D Projects in Chemical Sciences

Principal Investigator: Dr. Asit Kumar Das

Project Title: "Heterogeneous Catalysis using Supported Metallic Nanoparticles for Sustainable Organic Synthesis"

Project Type: Major Project (9.6 L)

Current Status: Ongoing (From 10-02-2024 to Till Now)

Duration of Project: 3 Years

Funding Agency: Department of Science and Technology & Biotechnology (DSTBT), Govt. of West Bengal.

Select list of publications (Only number):

- Journals: 10
- Books/ book chapters: 02
- Conference/ seminar volumes: 01

Membership of Learned Societies: American Chemical Society

Indian Photobiology Society

Invited lectures delivered: 02

Awards:

- 2011 Excellent Award for being 1st class 1st position from Surendranath College.
- 2013 Best Student Award in the Department of Chemistry of Surendranath College.
- 2013 Student Leadership Award in the Department of Chemistry of Surendranath College.
- 2014 Merit-Cum Means Scholarship for Postgraduate Education from IIT GUWAHATI.
- 2014 Qualified in CSIR-UGC National Eligibility Test Examination for Research Fellowship.
- 2015 Merit-Cum Means Scholarship for Postgraduate Education from IIT GUWAHATI.
- 2015 Qualified in CSIR-UGC National Eligibility Test Examination for Research Fellowship.
- 2015 Qualified in Graduate Aptitude Test in Engineering (GATE) Examination.
- 2024 Outstanding Paper Award in the 6th Regional Science & Technology Congress.
- 2024 Diamond Jubilee Young Scientist Award by the Indian Photobiology Society.

Other notable activities:

Reviewer in Scientific Peer-Reviewed Journal:

RSC Advances, Energy & Fuels, Letters in Organic Chemistry, American Journal of Heterocyclic Chemistry.

Talks / Posters / Papers Presented:

- Poster Presentation in the National Seminar on “Emerging Trends in Chemistry (ETC-2017)” organized by Department of Chemistry, Jadavpur University, Kolkata on February 15, 2017.
- Poster Presentation in the International Seminar on “Recent Trends in Science towards Sustainable Development” organized by Department of Chemistry, Acharya Prafulla Chandra College, Kolkata on August 06 - 07, 2018.
- Poster Presentation in the National Seminar on “Modern Trends in Chemistry for Sustainable Development” organized by Department of Chemistry, Vijaygarh Jyotish Ray College, Kolkata and Indian Chemical Society, Kolkata on March 03, 2020.
- Invited Speaker in the State Level Seminar on “Environment Education Programme: Nature Study Camp” organized by West Bengal Pollution Control Board, Department of Environment, Govt. of West Bengal on November 23, 2023.

- Poster Presentation in the International Conference on “Recent Trends in Biotechnology & Chemistry” organized by Department of Molecular Biology & Biotechnology and Department of Chemistry, Sripat Singh College, Murshidabad on December 20, 2023.
- Oral Presentation in the 6th Regional Science & Technology Congress jointly organized by Government College of Engineering & Textile Technology, Berhampore and Department of Science and Technology & Biotechnology, Govt. of West Bengal on January 18 - 19, 2024.
- Poster Presentation in the International Conference on “Chemistry at the Frontier” organized by Department of Chemistry, Bankura Sammilani College, Bankura on February 10, 2024.
- Oral Presentation in the 31st West Bengal State Science & Technology Congress organized by Department of Science and Technology & Biotechnology, Govt. of West Bengal on February 28 - 29, 2024.
- Oral Presentation in the 38th National Science Day Celebration & National Seminar on “Accelerating Photobiology Research towards Achieving the Sustainable Development Goals” organized by Indian Photobiology Society on March 01 - 02, 2024.

List of Journal Publications / Conference Papers: (Last ten years)

- Chemoselective and Metal-Free Synthesis of Aryl Esters from the Corresponding Benzylic Alcohols in Aqueous Medium Using TBHP/TBAI as an Efficient Catalytic System, S. Nandy, A. Ghatak, **A. K. Das**, S. Bhar,* Synlett. **2018**, 29, 2208-2212.
- Catalytic efficiency of β -cyclodextrin hydrate-chemoselective reaction of indoles with aldehydes in aqueous medium, **A. K. Das**, N. Sepay, S. Nandy, A. Ghatak, S. Bhar,* Tetrahedron Lett. **2020**, 61, 152231-152237.
- Chemoselective formation of C-N bond in wet acetonitrile using Amberlyst®- 15(H) as a recyclable catalyst, S. Nandy, **A. K. Das**, S. Bhar,* Syn Commun. **2020**, 50, 3326-3336.
- Chemoselective and ligand-free aerobic oxidation of benzylic alcohols to carbonyl compounds using alumina supported mesoporous nickel nanoparticle as an efficient recyclable heterogeneous catalyst, **A. K. Das**, S. Nandy, S. Bhar,* Appl Organomet Chem. **2021**, 35, e6282.

- Cu(OAc)₂ Catalysed Aerobic Oxidation of Aldehydes to Nitriles under Ligand-Free Condition, **A. K. Das**, S. Nandy, S. Bhar,* RSC Advances. **2022**, 12, 4605-4614.
- Solvent free one pot syntheses of highly substituted propargyl ethers and propargyl amines from propargyl alcohols catalyzed by recyclable alumina-sulfuric acid, A. Ghatak,* A. Pramanik, **A. K. Das**, S. Bhar,* Tetrahedron, **2022**, 127, 133090.
- Heavy Metal Sensing and Absorption by Polymer–Carbonaceous Composites, **A. K. Das**, A. Pramanik, A. Ghatak, CRC Press, Taylor & Francis, **2023**.
- A functionalized Hf(IV)–organic framework introducing an efficient, recyclable, and size-selective heterogeneous catalyst for MPV reduction, A. Das,* **A. K. Das**,* New J. Chem., **2023**, 47, 5347-5355.
- Hydrothermal syntheses of d¹⁰-based Zn(II) and Cd(II) metal–organic frameworks for the catalysis of the Knoevenagel condensation, B. N. Patra, **A. K. Das**,* S. Misra, P. P. Jana, P. Brandao, M. Afzal, A. Alarifi, T. Saha, D. Bera, S. Halder,* D. Mal,* N. Sepay,* Journal of Molecular Structure, **2023**, 1300, 137229.
- Hydrothermal syntheses of Mn(II) and Co(II) metal-organic frameworks for catalysis of the aqueous direct cross-aldol reaction, A. Sadhukan, **A. K. Das**, S. Misra, P. P. Jana, P. Brandao, M. Afzal, A. Alarifi, S. Bhowmick, K. C. Bhowmick, C. Roy Choudhury, S. Haldar,* D. Mal,* N. Sepay,* Appl Organomet Chem. **2024**.

Paper Published in Symposium Proceeding:

- Ni-alumina- an efficient and reusable catalyst for organic reactions in aqueous medium, A. Ghatak, **A. K. Das**, S. Nandy, D. Chakraborty, S. Bhar, Proceedings of UGC sponsored National Symposium on ‘ENTHRALLING FACETS OF MOLECULAR MANIFESTATION IN CHEMICAL SCIENCES’ organized by Department of Chemistry, Bidhannagar College, Salt Lake, Kolkata-700064, dated on 15-16 September, 2016, Page No. 1-5. (ISBN: 978-81-929243-4-2).

Publications in books, chapters etc.:

- “Snatak Rasayan through Solved Problem”, CBCS Pattern, Volume I, Semester I by S. K. Ghosh, U. Roy and **A. K. Das**, J. Publication, ISBN: 978-81-940305-4-6 (2019).
- Heavy Metal Sensing and Absorption by Polymer–Carbonaceous Composites, **A. K. Das**, A. Pramanik, A. Ghatak, CRC Press (Taylor & Francis), 2023, eBook, ISBN: 9781003328094.