# *Curriculum Vitae*

## Personal Information:

Name- **Dr. Biswanath Das**
Home Address- Brotorps Allé 3, Sundbyberg, Lgh 1101, Stockholm 17441, Sweden
Contact no: +46736002256
**Current Employment-** Permanent researcher at Stockholm University (Organic Chemistry)
**Current workplace Address-** Stockholm University, SE 10691, Sweden

**Having experience (over 9 years) in managing multiple and interdisciplinary projects related to renewable energy, carbon capture-conversion, and PFAS remediation. Having expertise in organic-inorganic catalysts-materials synthesis, electrocatalysis, anodes and cathodes design, and analytical techniques (GC-MS, ESI-MS, FTIR, NMR, UV-Vis, etc.) for catalysis and product quality analysis. Fluent in English (reading, writing, and speaking), basic level in Swedish (completed SFI national test), enjoy public speaking, team working, networking, and new challenges.**

## Previous Employments:

**UNSW School of Chemistry, Australia** **02/2019 – 05/2020**
**Post-Doctoral Research Associate position**
Homogeneous–Heterogeneous $CO_2$ reduction, Hydride–dihydrogen complexes, C-F & C-H bonds activation
This position involves co-mentoring of one honors student and one Ph.D. student.
*Supervisor: A/Prof. Graham E Ball & Prof. Naresh Kumar*

**UNSW School of Chemistry, Australia** **06/2016 – 12/2018**
**Post-Doctoral position**
Homogeneous $CO_2$ reduction & Water oxidation
This position involved co-mentoring of one honors student and four Ph.D. students.
*Supervisor: A/Prof. Stephen B. Colbran*

**Uppsala University, Sweden** **01/2014 – 05/2016**
**Post-Doctoral position**
Homogeneous Water oxidation
This position involved co-mentoring of two master's students.
*Supervisors: Prof. Sascha Ott and Dr. Anders Thapper*

## Higher education degrees:

**Doctoral Studies (PhD)** **09/2009 – 02/2014**
Lund University, Sweden
Hydrolytic and oxidative catalytic activities of bio-inspired di-nuclear metal complexes
*Supervisor: Prof. Ebbe Nordlander*

**Master´s Degree in Chemistry** **08/2007 – 08/2009**
Indian Institute of Technology (IIT), Kanpur, India
Synthesis, structure and photo-physical properties of phosphorus-supported fluorescent probes
*Project Supervisor: Prof. Vadapalli Chandrasekhar*

**Bachelor´s Degree in Chemistry** **04/2004 – 06/2007**
Suri Vidyasagar College, Burdwan University, India

## Experienced in:

| | |
|---|---|
| Organic and inorganic synthesis | Water splitting & $CO_2$ reduction |
| Molecular catalysts, Electrode design | Electrochemistry and catalysis |
| PFAS removal techniques | DFT calculation on small molecules |
| C-H bond activation / Alkenes oxidation | Spectroscopic analysis and mechanistic investigation |

## Overview of publications record:

| | |
|---|---|
| Total number of publications | 36 |
| International patent | 1 |
| **First author** publications | 20 |
| **Corresponding author** publications | 10 |
| Total number of citations | > 650 (Google Scholar, June 2023) |
| H – index/i10 – index | 14/17 (Google scholar) |

***Complete list:***
*https://scholar.google.com.au/citations?user=xl8i7FgAAAAJ&hl=en&authuser=1*

## Applicant/Co-applicant in successful grant applications:

(i)**MWAC Grant**: SC-XRD Detector Upgrade (RG163130)] (2017-2020) at UNSW, Sydney (with Dr. Christopher Marjo and team) (250,000 AUD)
(ii) **Futura foundations** (2020-2023) at Stockholm University (with Prof. Björn Åkermark, Dr. Oscar Verho, and A/Prof. Markus D Kärkäs) (2830,000 SEK)
(iii) **ÅForsk foundations** (2021-2023) at KTH and Stockholm University (with Prof. Joydeep Dutta and Prof. Björn Åkermark) (999,220 SEK)
(iii) **Futura foundations** (2023-2026) (individual grant) at Stockholm University (3075,000 SEK)

## Invited talks, oral presentations, awards, and cover-arts:

**Invited talks** –at Macquarie University, 2019 April, Sydney, Australia; at IPRI 2018 September, Wollongong, Australia;
**Oral presentations** – GREN2023 (Dresden, Germany); ISHHC 2018 (Sydney, Australia); ICCC 2018 (Sendai, Japan); Swedish CAP meeting 2014 (Uppsala, Sweden), 2015 (Stockholm, Sweden); IRTG Biometals 2011 (Goslar, Germany)
**Chartered Member** of RACI (Royal Australian Chemical Institute) (2019-2021) (Membership No. 59220)
Ongoing projects got selected on **IVA's 100-list 2023** (Swedish innovations with great potential)
Awarded *Junior Research Fellowship* (JRF), India (through the NET exam), in 2009
Awarded *Erasmus Mundus Ph.D. Fellowship*, Lund University, Sweden in 2009
Awarded a *post-doctoral fellowship* at Uppsala University, Sweden, in 2014
Awarded a *post-doctoral fellowship* at the School of Chemistry, UNSW, Australia, in 2016
Invited cover in *Account of Chemical Research* (corresponding author) in 2021 (DOI: 10.1021/acs.accounts.1c00298)
Invited front-cover in *Dalton Transaction* (corresponding author) in 2019 (doi: 10.1039/C8DT04858D)
Invited Inside Cover in *Chemical Communications* in 2015 (doi:10.1039/C5CC04148A)

## Teaching:

Organic Chemistry – Reactivity and Structure KO5001 (from 2022) (as a lecturer) at Stockholm University
Organic Chemistry – Basic Principles KO2003 (from 2023) (as a lecturer) at Stockholm University
Coordination Chemistry KEMM22 (2010-2014) (as lab instructor) at Lund University
Supervising bachelor, master, PhD students, and postdoctoral candidates (from 2016, in Australia & Sweden)

## List of supervised/co-supervised students:

(i) Rima Hindy and Helen Hagos (Bachelor project student, 2022-2023), Stockholm University
(ii) Jamal El-Abid (Post-doctoral candidate, 2023-2025, ongoing), Stockholm University, Sweden.
(ii) Maryam Mirabediny (Ph.D. student under Prof. Naresh Kumar, 2020-2024, ongoing), UNSW, Australia
(iii) Jun Sun (Ph.D. student under Prof. Naresh Kumar, 2019-2023, ongoing), UNSW, Australia
(iv) Dejan Mizdrak (Master's project student under Prof. Graham E Ball, 2019), UNSW, Australia
(v) Gabriella Chalmers (Master's project student under Prof. Stephen B Colbran, 2018-1019), UNSW
(vi) Lida Ezzedinloo (Ph.D. student under Prof. Stephen B Colbran, 2016-2020), UNSW, Australia
(vii) Michael Marquardt (Master's project student 2015-1016), Uppsala University, Sweden
(viii) Ricardo Fernandez (Master's project student, 2014-1015), Uppsala University, Sweden

## Reviewing articles for:

(i) Nature Communications; (ii) Environmental Science & Technology; (iii) ChemCatChem; (iv) Chemistry-A European Journal; (v) Dalton Transactions.

## References:

**Prof. Em. Björn Åkermark**, Department of Organic Chemistry, Stockholm University, Stockholm 10691, Sweden. Email: Bjorn.Akermark@su.se
**Prof. Naresh Kumar,** School of Chemistry, UNSW, Sydney, Australia. E-mail: n.kumar@unsw.edu.au
**Prof. Sascha Ott,** Department of Chemistry-Ångström Laboratory, Uppsala University, P.O.Box 523,75120 Uppsala, Sweden. E-mail: sascha.ott@kemi.uu.se
**Prof. Ebbe Nordlander,** Chemical Physics Department; Kemicentrum; Getingevägen 60, Lund S-22241, Sweden. Email:ebbe.nordlander@chemphys.lu.se
**A/Prof. Anders Thapper**, Department of Chemistry-Ångström Laboratory, Uppsala University, P.O.Box 523, 75120 Uppsala, Sweden. E-mail: anders.thapper@kemi.uu.se
**A/Prof. Graham Ball,** School of Chemistry, UNSW, Sydney, Australia. E-mail: G.Ball@unsw.edu.au
**A/Prof. Stephen B Colbran**, School of Chemistry, UNSW, Sydney, Australia. E-mail: s.colbran@unsw.edu.au
**Prof. Franc Meyer,** Institut für Anorganische Chemie Georg-August-Universität Tammannstraße 4, 37077 Göttingen,Germany. E-mail: franc.meyer@chemie.uni-goettingen.de