

Resume

Dr. Sutanuva Mandal, M.Sc., Ph.D.



❖ Personal Details

Sex- Female

Date of Birth: November 15, 1985

Contact Details:

Email ID: sutanuva.chem@citycollegekolkata.org

Address:

Verdant Prince, 134 PGH Shah Road

Jadavpur

Kolkata, 700032

- ❖ Current Position: Assistant Professor (stage II), Department of Chemistry, City College, 102/1 Raja Rammohan Sarani, Kolkata-700009 (Under Calcutta University) since 13.03.2026.

- ❖ Educational qualifications: M. Sc., Ph. D

Course	University
B.Sc. (Chemistry, Hons.), 2005	University of Calcutta
M.Sc. in Chemistry (special paper: Inorganic Chemistry), 2007	University of Calcutta
Ph.D., Synthetic Inorganic and Organometallic Chemistry, 2012	Department of Inorganic Chemistry Indian Association for the Cultivation of Science (IACS) Jadavpur, Kolkata Advisor: Professor Dr. Sreebrata Goswami
Post Doct., Metalloradical Approaches in Homogeneous Catalysis, 2013	Van't Hoff Institute for Molecular Sciences, University of Amsterdam, Amsterdam, The Netherlands Advisor: Professor Dr. Bas de Bruin
Post Doct., Synthetic Inorganic and Organometallic Chemistry, 2014	Department of Inorganic Chemistry Indian Association for the Cultivation of Science (IACS) Jadavpur, Kolkata Advisor: Professor Dr. Sreebrata Goswami

- ❖ Technical, workshop & Academic Training :

Sl. No.	Programme/Course	Organisation	Sponsoring Agency	Duration
1.	Orientation Programme	HRDC, University of Calcutta	UGC	28 days, 04.09.2018 to 03.10.2018
2.	Refresher Course	HRDC, University of Jadavpur	UGC	21 days, 02.01.2019 to 22.01.2019

3.	Refresher Course	HRDC, University of Jadavpur	UGC	15 days, 11.11.2021 to 25.11.2021
4.	Refresher Course	MMTTC, Jamia Millia Islamia, Central University	UGC	14 days, 29.01.2026 to 11.02.2026
5.	NEP 2020 Orientation & Sensitization Programme	Malaviya Mission Teacher Training Centre (MM-TTC), Rani Durgawati Vishwavidyalaya, Jabalpur, M.P.	UGC	09 days, 08.04.2024 to 16.04.2024

❖ Previous working experience:

No.	Post	College, University and Organisation	Department	Duration
1.	Assistant Professor (Stage II)	Banwarilal Bhalotia College, Asansol, 713303	Chemistry	20.07.2019 to 12.03.2026
2.	Head of the Department	Banwarilal Bhalotia College, Asansol, 713303	Chemistry	01.06.2025 to 12.03.2026
3.	Assistant Professor (Stage I)	Banwarilal Bhalotia College, Asansol, 713303	Chemistry	20.07.2015 to 19.07.2019

❖ Area of expertise and Research Interest:

- Homogeneous Catalysis and Bio-inspired Coordination Chemistry
- Electronic Structure Evaluation and Computational Catalysis

❖ Publication:

Papers:

1. Metal–Ligand Cooperation for Iron(II)-Catalyzed Direct Wittig-Type Olefination from Alcohols in Air
Subhankar Khanra, Subhangi Saha, **Sutanuva Mandal**,* and Nanda Dulal Paul*
European Journal of Organic Chemistry 28 (24), e202500257, 2025
2. Fe(II)-Catalyzed Metal-Ligand Cooperative Approach for Selective C3 -Alkylation of Indoles
Chakraborty S.; **Mandal S.**; Paul N.D.
Synlett Volume 35, Year 2024, Pages 2508-2514
3. Ligand Assisted Co(II)-Catalyzed Multicomponent Synthesis of Substituted Pyrroles and Pyridines
Subhajit Chakraborty, Arijit Singha Mohapatra, Subhangi Saha, **Sutanuva Mandal***, and Nanda Dulal Paul*
Chemistry - An Asian Journal **Volume 20, Year 2024, Pages e202401038**
4. Nickel-Catalyzed Synthesis of Pyrimidines via Dehydrogenative Functionalization of Alcohols

Gargi Chakraborty., Rina Sikari., Rakesh Mondal., **Sutanuva Mandal***, Nanda D. Paul*,
Asian Journal of Organic Chemistry, Volume 9, Year 2020, Pages 431-436
(Special Issue on Earth-abundant Metals in Catalysis)

5. Cobalt complexes of redox noninnocent azo-aromatic pincers. Isolation, characterization, and application as catalysts for the synthesis of quinazolin-4(3H)-ones
Suman Sinha., Siuli Das., Rakesh Mondal., **Sutanuva Mandal***, Nanda D. Paul*,
Dalton Transactions, Volume 49, Year 2020, Pages 8448-8459
6. Copper catalyzed sustainable synthesis of quinolines
Mandal S.
International Journal of Scientific and Technology Research, Volume 9, Year 2020, Pages 3803-3807
7. Acceptorless Dehydrogenation of Primary and Secondary Benzylic Alcohols Using a Well Defined Phosphine Free Air Stable Mn^{II} -Catalyst. Synthesis of Imines via Dehydrogenative Coupling of Alcohols and Amines
Mandal Sutanuva
IJSRR 2019, 8(3), 34-48
8. Catalytic Synthesis of 2H-Chromenes
Majumdar N.; Paul N. D.; **Mandal S.**; De Bruin B*.; Wulff W. D*.
ACS Catalysis, Volume 5, Year 2015, Pages 2329-2366
9. Rhodium catalysed conversion of carbenes into ketenes and ketene imines using PNN pincer complexes
Z. Tang., **S. Mandal.**, N. D. Paul., M. Lutz., P. Li., J. I. van der Vlugt., B. de Bruin*,
Organic Chemistry Frontiers, Volume 2, Year 2015, Pages 1561-1577 (**Cover Page**)
10. Comparison of Redox Activity between 2-Aminothioether and 2-Aminothiophenol: Redox-Induced Dimerization of 2-Aminothioether via C-C Coupling
Ghosh P.; **Mandal S.**; Chatterjee I.; Mondal T. K.; Goswami S*.
Inorganic Chemistry, Volume 54, Year 2015, Pages 6235-6244 (**Ghosh P and Mandal S contributed equally**)
11. Identification of a $(H_2O)_8$ cluster in a supramolecular host of a charge transfer platinum(II) complex
SUTANUVA MANDAL., IPSITA CHATTERJEE., ALFONSO CASTIÑEIRS*,
SREEBRATA GOSWAMI*,
Journal of Chemical Sciences, Volume 126, Year 2014, Pages 1507-1513
(Chemical Crystallography Special Issue)
12. Metalloradical approach to 2H -chromenes
Nanda D. Paul., **Sutanuva Mandal.**, Matthias Otte., Xin Cui., X. Peter Zhang., Bas de Bruin*,
Journal of the American Chemical Society, Volume 136, Year 2014, Pages 1090-1096
13. Comparative study on ortho-C-H vs ortho-C-X (X = C, Cl, S) bond activation in ortho-C aromatic-N bond fusion in substituted anilines using ruthenium(II) mediators: Isolation and characterization of unusual Ru_2 complexes

Sutanuva Mandal., Subhas Samanta., Tapan K. Mondal., Sreebrata Goswami^{*}.,
Organometallics, Volume 31, Year 2012, Pages 5282-5293

14. Bis(acetonitrile)bis(acetylacetonato)ruthenium(III) mediated chemical transformations of coordinated 2-methylthioanilide
Sudipta Chatterjee., **Sutanuva Mandal.**, Subhas Samanta., Sreebrata Goswami^{*}.,
Volume 41, Year 2012, Pages 7057-7066
15. Coordination chemistry of 2-aminothioethers and their unusual chemical transformations
Mandal S.; Roy S. K.; Goswami S^{*}.
Indian Journal of Chemistry - Section A; Inorganic, Physical, Theoretical and Analytical Chemistry, Volume 51, Year 2012, Pages 108-117
16. Ortho-Carom-N bond fusion in aniline associated with electrophilic chlorination reactions at ruthenium(III) coordinated acetylacetonates
Sudipta Chatterjee., **Sutanuva Mandal.**, Sucheta Joy., Chen-Hsiung Hung., Sreebrata Goswami^{*}.,
Inorganica Chimica Acta, Volume 374, Year 2011, Pages 366-372
17. An unusual (H₂O)₂₀ discrete water cluster in the supramolecular host of a charge transfer platinum(II) complex: Cytotoxicity and DNA cleavage activities
Mandal S.; Castiñeiras A.; Mondal T. K.; Mondal A.; Chattopadhyay D.; Goswami S^{*}.
Dalton Transactions, Volume 39, Year 2010, Pages 9514-9522 (**Hot Article & Cover Page**)
18. 1,4-Alkyl migration associated with simultaneous S-C bond cleavage and N-C bond formation in platinum complexes of 2-aminothioethers. Characterization of intramolecular interligand charge transfer phenomenon
Mandal S.; Paul N.; Banerjee P.; Mondal T. K.; Goswami S^{*}.
Dalton Transactions, Volume 39, Year 2010, Pages 2717-2726 (**Hot Article**)

❖ Awards:

- ❖ **Jan 2010 – December 2012 Senior Research Fellow**, Council of Scientific and Industrial Research (CSIR), India
- ❖ **Jan 2008 – Dec 2009 Junior Research Fellow**, Council of Scientific and Industrial Research (CSIR), India
- ❖ **2007(June)** Qualified **NET-CSIR-JRF** (National Eligibility Test, India) on the basis of a national level competitive examination
- ❖ **2007** Qualified **GATE** (Graduate Aptitude Test in Chemical Sciences, India),
- ❖ **2000** Awarded National Scholarship for Secondary Examination (10th standard)

❖ List of Participation in Seminar, Conference and Workshop

International:

1. Paper (poster) presentation at International Conference on “Present Scenario of Chemistry-Biology Interface Research: Issues and Challenges – Chapter II” on 22nd December, 2025 organized by the Department of Chemistry, Bidhan Chandra College, Asansol, Paschim Bardhaman, 713304.
2. Paper (poster) presentation at International Seminar on "Biology at Crossroads: Recent Advancements." on 3rd April'25 organised by the Department of Botany, Banwarilal Bhalotia College, Asansol, Paschim Bardhaman, 713303.
3. Paper (poster) presentation at P.C. Ray Memorial two-days International Conference on “Contemporary Ideas, Innovations & Initiatives in Chemical Sciences: -2023 (CI3CS-2023)” organised by the Department of Chemistry, Presidency University, Kolkata during August 23-24, 2023.
4. Paper (poster) Presentation at two days International Seminar Sponsored by Asansol Durgapur Development Authority (ADDA) on “ADVANCEMENTS IN CHEMICAL SCIENCES: ISSUES AND CHALLENGES” during 4th - 5th February, 2020 organized by the Department of Chemistry, Bidhan Chandra College, Asansol, Paschim Bardhaman, 713304 in collaboration with Indian Chemical Society, 92, Acharya Prafulla Chandra Road, Kolkata-700009.

❖ Additional activities :

1. Worked as an Academic Counsellor under both Indra Gandhi National Open University and Netaji Subhas Open University at Banwarilal Bhalotia College Centre, Asansol.
2. Worked as a member of the Green Audit, Sports and Prospectus Committee, Banwarilal Bhalotia College, Asansol.