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Educational Qualifications:

Degree	University	Year	%	Rank
B.Sc	University of Calcutta	1979-82	74%	**First**
M.Sc.	University of Calcutta	1982-84	80.6%	**First**
Ph.D.	Jadavpur University	1991		

Research Experience

Ph.D. (1986-1991) I.A.C.S. (Kolkata)

Thesis title: "Bridged Ring and Condensed Cyclic Systems"

Post Doctoral Research

(a) 1992-1993 Bose Institute (Kolkata) and 1994 "NMR studies on Structure and dynamics of bent DNA"

(b) 1998-2000 M.D. Anderson Cancer Centre, University of Texas, Houston, Texas, USA "Polycyclic aromatic compounds as anticancer agents"

Professional Experience:

(1) January 1994- October 2005 (St. Paul's C. M. College)
(2) Joined as Reader at University of Calcutta in October 2005
(3) Associate Professor (University of Calcutta, January 2006)
(4) Professor (University of Calcutta, June 2010 till date)

List of publications: (Total no. till date=**195**) (excluding research highlights)

LIST OF PUBLICATIONS (UP-TO-DATE)

(195) "Fe_2O_3 Nano-Catalyst Mediated Oxidative Decarboxylation C-H Acylation/Benzoylation of 3-Alkylidene-2-Oxindoles With α-Keto Acids" by Soumitra Rana, Aswini Bera, Prabhat Sarkar, Uday Shee, Goutam Sinha, Debasish Bera, Bhanu Bhusan Khatua and **Chhanda Mukhopadhyay***, ***Applied Organometallic Chemistry*** (DOI: 10.1002/aoc.7821) (**2024**).

(194) "Solvent-free microwave reactions towards significant organic transformations: a green approach", by Animesh Mondal and **Chhanda Mukhopadhyay***, ***Tetrahedron Green Chemistry*** 4 (**2024**) 100054 (https://doi.org/10.1016/j.tgchem.2024.100054).

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(188) "An efficient metal free water mediated one pot domino protocol for the synthesis of novel 6',7'-dihydro-2H,2'H-spiro[acenaphthylene-1,3'-benzofuran]-2,4'(5'H)-dione scaffolds" by Supratim Das, Soumyadip Basu, Supriyo Halder and **Chhanda Mukhopadhyay***, ***Tetrahedron***, (https://doi.org/10.1016/j.tet.2024.134041), 160 (**2024**) 134041.

(187) "DMSO Promoted Catalyst-free Oxidative C-N/C-O Couplings towards Synthesis of Imidazoles and Oxazoles" by Debasish Bera, Rajib Sarkar, Tiyasa Dhar, Pinaki Saha, Prasanta Ghosh and **Chhanda Mukhopadhyay***, ***Org. Biomol. Chem.***, **2024**, 22, 3684–3692 (https://doi.org/10.1039/D4OB00383G).

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(161) "Generation of I-, ArS- and ArSe- Substituted Pyrrolo[3,4-c]pyridine Derivatives Using Copper Iodide As an Iodinating agent" by Pampa Maity, Piyali Sarkar and **Chhanda Mukhopadhyay*,** ***Tetrahedron Letters***, 85 (**2021**) 153479.

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(156) "Highly selective and sensitive benzo-imidazo-pyrrolo[3,4-c]pyridines based chemosensor for iron, DFT calculation and its biological application" by Pampa Maity, Barnali Naskar, Chitrangada Das Mukhopadhyay, Sanchita Goswami and **Chhanda Mukhopadhyay*, *Journal of Molecular Structure***, 1236 (**2021**) 130280.

(155) "Diastereoselective trans Cyclopropanation of 3-alkylidene oxindoles with in situ generated α-diazocarbonyls or α, β-unsaturated diazo compounds" by Sayan Pramanik, Suman Ray, Suvendu Maity, Prasanta Ghosh and **Chhanda Mukhopadhyay***, ***Synthesis***, 21, A-M (**2021**) (DOI: 10.1055/a-1384-1967).

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(153) "Significant Organic transformations using Catalysts in water: a Greener way to combat Environmental Hazards" by Rammyani Pal and **Chhanda Mukhopadhyay***, ***Current Green Chemistry***, 8 (1), 5-16 (**2021**).

(152) "Organocatalytic Synthesis of Heterocycles: A Brief Overview Covering Recent Aspects" by Rajib Sarkar* and **Chhanda Mukhopadhyay***, ***Current Organocatalysis***, volume 8, issue 1, 93-108 (**2021**).

(151) "A synergistic effect of microwave irradiation and nano-TiO_2@[DABCO(CH_2CH_2 CO_2 H)]$^+$ [Br]$^-$ for the expeditious synthesis of fully functionalised pyrroles incorporating benzo-thio unit" by Priya Mondal and **Chhanda Mukhopadhyay***, ***Journal of Indian Chemical Society*** (Convention Special Issue 2020, invited paper), Vol. 97, No. 12a, December **2020**, pp. 2579-2591.

(150) "One pot synthesis of densely substituted 1,2,3,4-tetrahydro-1,6-naphthyridine mediated by isocyanide assisted reduction of C-C double bond" by Paramita Das*, Suman Ray, Rupak Saha and **Chhanda Mukhopadhyay***, ***Chemistry Select***,5, 3581-3585 (**2020**).

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Dimethyl tricyclo[7.4.0.0 1,5]tridecane-3,11-dione" by **Chhanda Mukhopadhyay** (nee Ray), S.Ghosh, M.Mukherjee,A.K.Mukherjee and U.R.Ghatak, ***J.Chem.Research(S),*** (**1993**),476,(M),(**1993**),3201.

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(3) **Chhanda Ray**, B.Saha and U.R.Ghatak, "Synthesis of some angularly cyclopentanone fused hydrophenanthrene and hydrofluorene derivatives by acid catalyzed intra-molecular C-alkylation of γ ,δ-unsaturated α/-diazomethyl ketones," ***Synthetic Communications***, (**1991**), 21(10 and 11),1223.

(2) **Chhanda Ray**, B.Saha (in part) and U.R.Ghatak "Bridged-ring and condensed cyclic systems-14 .Synthesis of some bridged propanohydrophenanthrene, - hydrofluorene and benzopropellane derivatives through intramolecular C-alkylations of γ ,δ - unsaturated α/ -diazomethyl ketones," ***Tetrahedron***, (**1990**), 46, 2857.

(1) A.K.Chakraborty, B.Saha, **Chhanda Ray** and U.R.Ghatak, "Alkali metal liquid-ammonia reduction of γ-lactones to diols and cyclic hemiacetals. Stereochemical influence by the neighbouring group on the nature of the products," ***Tetrahedron***, (**1987**), 43, 4433.

BOOK CHAPTERS:

(1) "Sustainable Green Technologies for Synthesis of Potential Drugs Targeted towards Tropical Diseases" by Dripta De Joarder, Rajarshi Sarkar and **Chhanda Mukhopadhyay*** (**Elsevier**) Chapter 4, pages 75-93 (**2019**) for the book Green Approaches in Medicinal Chemistry for Sustainable Drug Design edited by Bimal K. Banik.

(2) "Ultrasonication under catalyst-free condition: an advanced synthetic technique toward the green synthesis of bioactive heterocycles" by Rajiv Karmakar and **Chhanda Mukhopadhyay***(**Elsevier**), Chapter 15, pages 497-562 (**2021**) for the book Green Synthetic Approaches for Biologically Relevant Heterocycles (second edition) Volume 1: Advanced Synthetic Techniques edited by Goutam Brahmachari (ISBN: 978-0-12-820586-0).

(3) "Copper Based Heterogeneous Catalysis for the synthesis of small organic molecules in aqueous medium" from the book "Aqueous Mediated Heterogeneous Catalysis" (publisher **de Gruyter**) by Rajib Sarkar and **Chhanda Mukhopadhyay***(https://doi.org/10.1515/9783110733846-007), Chapter 7, pages 161-175 (**2022**) (edited by Asit K. Chakraborti and Bubun Banerjee) (ISBN 978-3-11-073845-2).

(4) "Synthesis of New Horizons in Benzothiazole Scaffold and used in Anticancer Drug development" from the book "Heterocyclic Anticancer Agents" (publisher **de Gruyter**) by Rajiv Karmakar and **Chhanda Mukhopadhyay*** (https://doi.org/10.1515/9783110735772-010), Chapter 10, pages 343-385 (**2022**) (edited by Bimal Krishna Banik and Bubun Banerjee) (ISBN 978-3-11-073926-8).

(5) ″Current Advances in the application of Actinide complexes for useful organic transformations″from the book Rare Earth Elements (publisher **de Gruyter**) by Debasree Saha and **Chhanda Mukhopadhyay*(**https://doi.org/10.1515/9783110788082-006**)** (edited by Basudeb Basu and Bubun Banerjee), Chapter 6, pages 103-118 (**2023**) (ISBN: 9783110787948, eISBN: 9783110788082).

(6) ″Solid-phase platform: a nonconventional synthetic route for the current organic synthesis of diversified heterocyclic and carbocyclic framework (publisher **de Gruyter**), book title: ″Organic Synthesis, Natural Products Isolation, Drug Design, Industry and the Environment″, by Animesh Mondal and **Chhanda Mukhopadhyay***(https://doi.org/10.1515/9783111243993-005) (edited by **Chhanda Mukhopadhyay** and Bubun Banerjee), Chapter 5, pages 135-182) e-book ISBN: 9783111243993, hard cover: ISBN: 9783111243740 (**2023**).

(7) ″Aqueous Mediated Synthesis of bioactive O-Heterocycles″from the book Aqueous Mediated Synthesis (publisher **de Gruyter**) by Rajib Sarkar and **Chhanda Mukhopadhyay*** (https://doi.org/10.1515/9783110985627-007) (edited by Asit K Chakraborti and Bubun Banerjee), Chapter 7, pages 205-225 (**2024**) (ISBN: 9783110985627).

(8) ″Green metal catalyzed reactions under sustainable conditions toward medicinally potent biomolecules″by Dripta De Joarder, Rajarshi Sarkar and **Chhanda Mukhopadhyay*** (**Elsevier**), Chapter 1, pages 03-12 (**2024**) (Section 1: Chemical Catalysis) for the book Green Approaches in Medicinal Chemistry for Sustainable Drug Design edited by Bimal K. Banik (DOI: https://doi.org/10.1016/B978-0-443-16166-7.00021-9), (ISBN: 978-0-443-16166-7).

(9) ″Sustainable green technologies for synthesis of potential drugs targeted toward tropical diseases″ (updation) by Dripta De Joarder, Rajarshi Sarkar and **Chhanda Mukhopadhyay*** (**Elsevier**), Chapter 10 , pages 191 - 204 (**2024**) (Section 4: Green Chemistry) for the book Green Approaches in Medicinal Chemistry for Sustainable Drug Design edited by Bimal K. Banik (DOI: https://doi.org/10.1016/B978-0-443-16166-7.00019-0) (ISBN: 978-0-443-16166-7)

(10) ″Sustainable green approaches for synthesis of bioactive flavonoids as cardioprotective and anticancer drug agents″by Rajiv Karmakar* and **Chhanda Mukhopadhyay*** (**Elsevier**), Chapter 14, pages 305-343 (**2024**) (Section 5 : Medicinal Chemistry) for the book Green Approaches in Medicinal Chemistry for Sustainable Drug Design edited by Bimal K. Banik (DOI: https://doi.org/10.1016/B978-0-443-16166-7.00014-1) (ISBN: 978-0-443-16166-7).

BOOKS

(1) Non-Conventional Solvents-Volume 1 (edited by **Chhanda Mukhopadhyay** and Bubun Banerjee) (https://doi.org/10.0000/9783110788129) (Ionic Liquids, Deep Eutectic Solvents,

Crown Ethers, Fluorinated Solvents, Glycols and Glycerol) e-book ISBN: 9783110788129, hard cover : ISBN: 9783110787931 (**2023**) (publisher: **de Gruyter**)

(2) Non-Conventional Solvents-Volume 2 (edited by **Chhanda Mukhopadhyay** and Bubun Banerjee) (https://doi.org/10.0000/9783111243993) (Organic Synthesis, Natural Products Isolation, Drug Design, Industry and the Environment) e-book ISBN: 9783111243993, hard cover: ISBN: 9783111243740 (**2023**) (publisher: **de Gruyter**)

Research Highlights

(1)"*syn*-Selective, three-component Mannich Reaction in Aqueous Media" by **Chhanda Mukhopadhyay***, Arup Datta and Ray J. Butcher, ***Synfacts***, 10, 1115 (**2009**).

(2) "Synthesis of 2-Oxo-2,5-Dihydropyrroles with TiO_2 Nanopowder" by Sunil Rana, Mike Brown, Arghya Dutta, Asim Bhaumik and **Chhanda Mukhopadhyay***, ***Synfacts***, 9 (5), 0566 (**2013**).

(3) "A Solid Base Catalyst for the Synthesis of IsatinylideneRhodanines" by Suman Ray, **Chhanda Mukhopadhyay***, ***Synfacts***, 9(11), 1247 (**2013**).

(4) "Synthesis of Benzothiazoles by using PiperazinylPyrimidine-Modified-MCM-41" by S. Ray, P. Das, B. Banerjee, A. Bhaumik and **C. Mukhopadhyay***, highlighted in ***SYNFACTS***, (**2015**), 1334 (Reg. No.Y014715SF).

Publication from an International Symposium myself being convener

"Weak Interactions in Chemistry" by **Chhanda Mukhopadhyay*** and Sasankasekhar Mohanta, ***Current Science***, 100 (9), 1282 (**2011**).

Research Interests:

- Organic Synthesis with special emphasis on nitrogen containing heterocycles like pyridines, triazoles,1,2,4,5-tetrasubstituted imidazoles,diverse five ring fused acridines,pyrroloacridinones, acridine-1,8-dione,xanthenes, 2,4,5-triaryl and 2-alkyl-4,5-diaryl oxazole, blue light emitting highly fluorescent C7-imidazo indolizines, 1,6-naphthyridines, spiro-pyrazolo[3,4-b]pyridines and spiro[indolo-3,10´-indeno [1,2-b]quinolin]-trioneetc…,
- Green Chemical reactions using green catalysts
- heterogeneous catalysis mainly silica and alumina based
- organic-inorganic hybrid catalysts
- mixed metal-oxide catalysts
- host-guest chemistry focusing on the formation of pseudorotaxanes
- application of nano-catalysts towards organic transformations
- multicomponent reactions
- calixarene chemistry: synthesis and applications
- fluorescence sensors and their application in imaging in living cells

Membership of Academic Institutions:

Life Member of Indian Chemical Society, Kolkata,
Life Member of Indian Association for the Cultivation of Science, Kolkata,
Life Member of Presidency College, Kolkata.
American Chemical Society Member (one year)

Governing Body Member of the following colleges:
(1) New Alipore College
(2) Purash-Kanpur-Haridas-Nandi-Mahavidyalaya
(3) Victoria Institution (College)
(4) Netaji Nagar College for Women

Awards and Recognition
(1) Professor R. S. Varma Memorial Award, by the Indian Chemical Society (**2015**) for contribution in Organic Chemistry.
(2) Chemical Research Society of India-Bronze Medal Award (**2015**)(**CRSI**) for contribution to research in Chemistry.
(3) Awarded gold medal by the University of Calcutta for standing first in the first class at the M.Sc. Examination in Chemistry, (**1984**).
(4) Awarded book prize by the University of Calcutta for standing first in the first class at the B.Sc. Examination in Chemistry, (**1982**).
(5) Awarded "Cunningham Memorial Prize" and "Acharya P.C. Ray Memorial" book prizes by Presidency College, Kolkata (**1982**) for securing the highest marks in Chemistry.

BOS (Board of Studies Member of the Following)
(1) Belur Ramkrishnamission Vidyamandira
(2) St. Xavier's College, Kolkata
(3) West Bengal State University, Barasat
(4) Bidhannagar College (affiliated to West Bengal State University, Barasat)
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Assignments related to PhD Work:
(1) Convener, PhD Research Advisory Committee in Chemistry (Organic)
(2) External Member of PhD Committee, Presidency University
(3) External Member of PhD Committee, Jadavpur University

Convener, NMR Committee, Department of Chemistry, University of Calcutta.

Editorship of Journals:
(1)**Editorial Board Member** of "**Current Microwave Chemistry**" (Bentham Science publications).

Summary of research scholars:
(1) Dr. Arup Datta (PhD in 2010), Assistant Professor at Shibpur Dinabandhu Institution
(2) Dr. Pradip Kumar Tapaswi (PhD in 2011), Assistant Professor at Narasingha Dutta College
(3) Dr.Sunil Rana (PhD in 2013) (Assistant Professor at FITJEE)

(4) Dr. Sabari Ghosh (PhD in 2013) (Assistant Professor at Heritage College, Kolkata)
(5) Dr. Paramita Das (PhD in 2014) (Assistant Professor at Ashutosh College)
(6) Dr. Suman Ray (PhD in 2014) (Assistant Professor at Presidency University, Kolkata)
(7) Dr. Rajib Sarkar (PhD in 2017) (SACT at Prabhu Jagatbandhu College)
(8) Dr. Piyali Sarkar (PhD in 2017) (Assistant Professor at Institute of Health Sciences, Presidency University, Kolkata)
(9) Dr. Animesh Mondal (PhD in 2018) (Assistant Professor at Government General Degree College at Salboni, Paschim Medinipur)
(10) Dr. Kajal De (PhD in 2019) (Assistant Chemist Group B, GSI, India)
(11) Dr. Priya Mondal (Assistant teacher, Deulia Balika Bidyamandir, Purba Medinipur) (PhD in 2021)
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(14) Dr.Kajal Mal (Assistant Master in Chemistry, Govt. Model School, Rajnagar, Birbhum) (PhD in 2023)
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(17) Soumitra Rana (SRF, CSIR NET)
(18) Ayon Sengupta (Senior Research Scientist, TCGLS)
(19) Debasish Bera (SRF, UGC NET)
(20) Goutam Sinha (SRF, CSIR NET)
(21) Supratim Das (SRF, UGC NET)
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Post Doctoral Fellows:
(1) Dr. Rajiv Karmakar (DSKothari, at present Assistant professor at Dum Dum Motijheel College)
(2) Dr. Rammyani Pal (DSKothari, joined on 2nd May, 2019-May 01, 2022)