

ACADEMIC PROFILE



DR. SOUMYA SUNDAR MATI

Assistant Professor in Chemistry (W.B.E.S.)

M.Sc., Ph.D.

Email: ssmati_chem@singurgovtcollege.org

- **Specialization:** Physical Chemistry
- **Date of joining in this college:** 12.02.2025
- **Total teaching experience in college level:** 10 years+
- **Area of research:** Spectroscopy, Photophysics, Computational Chemistry
- **Title of Ph.D. thesis :** SPECTROSCOPIC STUDIES OF BIOACTIVE MOLECULES IN HOMOGENEOUS AND HETEROGENEOUS MEDIA APPENDED BY QUANTUM CHEMICAL ANALYSIS
- **Research guidance (if any):** Nil
- **Research projects [completed / ongoing]:** Completed 01; DST-SERB; Grant 18 lakh; November, 2019 to April, 2023
- **List of publications:**

A. Published papers in Journals:

34. Soumya Sundar Mati, P. Paul, *Comparative insights into single stranded RNAs interaction with methylene blue and new methylene blue: a photophysical, thermodynamic and modeling study*, **Photochemical & Photobiological Sciences** 2026 (April), 25 (5), 879-895, DOI: <https://doi.org/10.1007/s43630-026-00888-y> Impact factor: 3.2

33. Soumya Sundar Mati*, *Exploration of solvent dependent real time keto-enol tautomerization followed by twisted structural isomerism in a 2,6-bis-(2-(ethylthio)ethylimino)methyl-4-methylphenol: A comprehensive experimental and computational calculation*, **Journal of Molecular Structure** 2026, 1351, 144259, DOI: <https://doi.org/10.1016/j.molstruc.2025.144259> Impact factor: 4.7

32. Soumya Sundar Mati*, S Chowdhury, S Sarkar, N Bera, N Sarkar*, *Targeting genomic DNAs and oligonucleotide on base specificity: A comparative spectroscopic, computational*

and in vitro study **International Journal of Biological Macromolecules**, 2023 (July), 242, 124933 DOI: <https://doi.org/10.1016/j.ijbiomac.2023.124933> Impact factor: 8.7

31. R Ravikanth Reddy, D Saha, A Pan, VK Aswal, **Soumya Sundar Mati**, SP Moulik..., *pH-Induced Biophysical Perspectives of Binding of Surface-Active Ionic Liquid [BMIM][OSU] with HSA and Dynamics of the Formed Complex* **Langmuir**, 2023 (March) 39 (10), 3729-3741 DOI: <https://doi.org/10.1021/acs.langmuir.2c03472>

30. A. Pan, B. VN Phani Kumar, **Soumya Sundar Mati**, A. Mal, G. KS Prameela, V. K Aswal, S. P Moulik, *Condition dependent self-aggregation behavior of aerosol-OT in mixed water-alcohol media: Physicochemical investigation* **Journal of Molecular Liquids**, 2022 (May), 354, 118893 DOI: <https://doi.org/10.1016/j.molliq.2022.118893> Impact factor: 6.17

29. M. Das, P. Brandao, **Soumya Sundar Mati**, S. Roy, A. Anoop, A. James, S. De, U. K. Das, S. Laha, J. Mondal, B. C. Samanta, T. Maity *Effect of ancillary ligand on DNA and protein interaction of the two Zn (II) and Co (III) complexes: experimental and theoretical study* **Journal of Biomolecular Structure and Dynamics**, 2021 (November), 1-16 DOI: 10.1080/07391102.2021.2001377 Impact factor: 3.3

Full	paper	Web	Link:
https://www.tandfonline.com/doi/abs/10.1080/07391102.2021.2001377			

28. **Soumya Sundar Mati***, S. Konar, B. Samai, *Synthesis of an Unprecedented H-stitched Binuclear Crystal Structure Based on Selective Fluorescence Recognition of Zn²⁺ in Newly Synthesized Schiff Base Ligand with DFT and Imaging Application in Living Cells*, **New Journal of Chemistry**, 2021(September), 45, 18459–18471. DOI: <https://doi.org/10.1039/D1NJ03471E>. Impact factor: 3.59
Full paper Web Link: <https://pubs.rsc.org/en/Content/ArticleLanding/2021/NJ/D1NJ03471E>

27. M. Das, S. Mukherjee, P. Brandao, S. K. Seth, S. Giri, **Soumya Sundar Mati**, B. C. Samanta, S. Laha, T. Maity, *Active Bromoaniline–Aldehyde Conjugate Systems and Their Complexes as Versatile Sensors of Multiple Cations with Logic Formulation and Efficient DNA/HSA-Binding Efficacy: Combined Experimental and Theoretical Approach*, **ACS Omega**, 2021(January), 6, 3659–3674. ISSN: 2470-1343. Impact Factor: 3.512
Full paper Web Link: <https://pubs.acs.org/doi/10.1021/acsomega.0c05189>

26. P. Paul, **Soumya Sundar Mati**, G. S. Kumar, *Insights on The Interaction of Phenothiazinium Dyes Methylene Blue and New Methylene Blue With Synthetic Duplex RNAs Through Spectroscopy and Modeling*, **Journal of Photochemistry & Photobiology, B: Biology**, 2020 (January), 204, 111804. ISSN: 1011-1344, Impact factor: 4.06
Web Link: <https://www.sciencedirect.com/science/article/abs/pii/S1011134419307948>

25. B. Samai, A. Basu, **Soumya Sundar Mati**, S. C. Bhattacharya, *Antiamyloid activity of functionalized cerium oxide nanoparticle on lysozyme fibrillation: Spectroscopic and microscopic investigation* *Author links open overlay panel*, **Materialia** 2019 (March), 6, 100285. ISSN: 2589-1529, Impact Score: 2.5
Web Link: <https://www.sciencedirect.com/science/article/abs/pii/S258915291930081X>

24. **Soumya Sundar Mati***, D. Singharoy, B. Samai, S. Konar, N. Santra, S. Pal, P. Das, S. Murmu, *Exploring selective recognition between Fe²⁺, Fe³⁺ and their implementation in bio-imaging: A combined spectroscopic and theoretical investigation*, **Journal of Molecular Structure** 2019 (February), 1184, 102-109, ISSN 0022-2860, Impact factor: 2.12

Web Link: <https://www.sciencedirect.com/science/article/abs/pii/S0022286019301449>

23. B. Samai, **Soumya Sundar Mati**, D. Singharoy, S. C. Bhattacharya, *The Application of Silver Nanoclusters to Sensing, Cell Imaging and Construction of Molecular Logic Gates*, **Chemistry Select** 2019 (April), 4, 4739-4746, ISSN: 2365-6549, Impact factor: 2.1

Link: <https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.201804042>

22. B Samai, **Soumya Sundar Mati**, S. C. Bhattacharya, *Inhibition of fibrillation of lysozyme by folic acid functionalized cerium oxide nanoparticle*, **J. Indian Chem. Soc.** 2018 (August), 95, 945-949, ISSN: 0019 4522, Impact factor: 0.28

21. B. Samai, S.Chall, **Soumya Sundar Mati**, S. C. Bhattacharya, *Role of Silver Nanoclusters in the Enhanced Photocatalytic Activity of Cerium Oxide Nanoparticles*, **Eur. J. Inorg. Chem.** 2018 (February), 2018, 3224-3231 [ISSN (Print) 1434-1948, ISSN (Web) 1099-0682] IF 2.44

Web Link:<https://chemistry-europe.onlinelibrary.wiley.com/doi/10.1002/ejic.201800230>

20. D. Singharoy, S. Chowdhury, **Soumya Sundar Mati**, S. Ghosh, K. Chattopadhyay, S. C. Bhattacharya, *Photoinduced Electron Transfer Switching Mechanism of a Naphthalimide Derivative with its Solvatochromic Behaviour: An Experimental and Theoretical Study with In Cell Investigations*, **Chem. Eur. J.** 2017 (August), 23, 16516 – 16524 . [ISSN (Print) 0947-6539, ISSN (Web) 1521-3765] IF 5.1

Link:<https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/chem.201702414>

19. D. Singharoy, **Soumya Sundar Mati**, S. Ghosh, S. C. Bhattacharya, *CB7 as a drug vehicle and controlled release of drug through non ionic surfactant: Spectroscopic technique* **Colloids and Surfaces B: Biointerfaces** 2017 (September) , 160, 84–91. [ISSN 0927-7765] IF 3.99

Link:<https://www.sciencedirect.com/science/article/abs/pii/S0927776517305842?via%3Dihb>

18. S. Chall, **Soumya Sundar Mati**, I. Das, A. Kundu, G. De, K. Chattopadhyay, *Understanding the Effect of Single Cysteine Mutations on Gold Nanoclusters as Studied by Spectroscopy and Density Functional Theory Modeling*, **Langmuir** 2017 (October), 33, 12120–12129. [ISSN 0743-7463] IF 3.79

Web link: <https://pubs.acs.org/doi/10.1021/acs.langmuir.7b01789>

17. P. Paul, **Soumya Sundar Mati**, S. C. Bhattacharya, G. S. Kumar, *Exploring the interaction of phenothiazinium dyes methylene blue, new methylene blue, azure A and azure B with tRNAPhe: spectroscopic, thermodynamic, voltammetric and molecular modeling approach*, **Phys. Chem. Chem. Phys.** 2017 (January), 19, 6636-6653. [Print + online ISSN 1463-9076, Online only: ISSN 1463-9084] IF 3.9

Web link: <https://pubs.rsc.org/en/content/articlelanding/2017/cp/c6cp07888e>

16. P. Paul, **Soumya Sundar Mati**, S. C. Bhattacharya, G. Suresh Kumar, *Spectroscopic, calorimetric, cyclic voltammetric and molecular modeling studies of new methylene blue-polyadenylic acid interaction and comparison to thionine and toluidine blue O: Understanding selfstructure formation by planar dyes*, **Dyes and Pigments**, 2017 (August 2016), 136, 205-218.[ISSN 0143-7208]. IF 3.77

Web link: <https://www.sciencedirect.com/science/article/abs/pii/S0143720816304314>

15. D. Singharoy, **Soumya Sundar Mati**, S. Rakshit, S. Chall, S. C. Bhattacharya, *Correlation of FRET efficiency with conformational changes of proteins in ionic and nonionic surfactant environment*, **J. Mol. Liq.**, 2016, 213, 33-40. [ISSN: 0167-7322] IF 4.51

Web link: <https://www.sciencedirect.com/science/article/abs/pii/S0167732215304979>

14. **Soumya Sundar Mati**, S. Chall, S. C. Bhattacharya, *Aggregation-Induced Fabrication of Fluorescent Organic Nanorings: Selective Biosensing of Cysteine and Application to Molecular Logic Gate*, **Langmuir**, 2015, 31, 5025-5032. [ISSN 0743-7463] IF 3.79

Web link: <https://pubs.acs.org/doi/abs/10.1021/acs.langmuir.5b00154>

13. S. Chall, **Soumya Sundar Mati**, B. Gorain, S. Rakshit, S. C. Bhattacharya, *Toxicological assessment of PEG functionalized f-block rare earth phosphate nanorods*, **Toxicology Research.**, 2015, 4, 966-975. [ISSN 2045-4538] IF 3.52

Web link: <https://academic.oup.com/toxres/article/4/4/966/5573542?login=true>

12. **Soumya Sundar Mati**, S. Chall, S. Rakshit, S. C. Bhattacharya, *Spectroscopic and Quantum Mechanical Approach of Solvatochromic Immobilization : Modulation of Electronic Structure and Excited-State Properties of 1,8-Naphthalimide Derivative*, **J. Fluorescence.**, 2015, 25, 341-353. [ISSN: 1053-0509 (Print) 1573-4994 (Online)] IF 2.09

Web link: <https://link.springer.com/article/10.1007/s10895-015-1516-2>

11. A. Sarkar, S. Rakshit, S. Chall, **Soumya Sundar Mati**, D. Singharoy, J. Banuelos, I. Lopez Arbeloa, S. C. Bhattacharya, *Micellar charge induced emissive response of a bio-active 3-pyrazolyl-2-pyrazoline derivative: a spectroscopic and quantum chemical analysis*, **RSC Adv.**, 2014, 4, 56361-56372. [ISSN 2046-2069] IF 2.94

Web link: <https://pubs.rsc.org/is/content/articlelanding/2014/ra/c4ra06497f/unauth>

10. S. Chall, **Soumya Sundar Mati**, S. Konar, D. Singharoy, S. C. Bhattacharya, *An Efficient, Schiff -base Derivative for Selective Fluorescent Sensing of Zn²⁺ Ions: Quantum Chemical Calculation Appended by Real Sample Application and Cell imaging Study*, **Org. Biomol. Chem.**, 2014, 12, 6447-6456. [ISSN 1477-0520 (print); 1477-0539 (web)]. IF 3.56

Web link: <https://pubs.rsc.org/en/content/articlelanding/2014/ob/c4ob00732h>

9. **Soumya Sundar Mati**, S. Chall, S. Konar, S. Rakshit, S. C. Bhattacharya, *Pyrimidine-based fluorescent zinc sensor: Photo-physical characteristics, quantum chemical interpretation and application in real samples*, **Sensors and Actuators B** 2014, 201, 204-212. [ISSN: 0925-4005]. IF 5.67

Web link: <https://www.sciencedirect.com/science/article/abs/pii/S0925400514004596>

8. S. Chall, **Soumya Sundar Mati**, S. Rakshit, S. C. Bhattacharya, *Soft-Templated Room Temperature Fabrication of Nanoscale Lanthanum Phosphate: Synthesis, Photoluminescence, and Energy-Transfer Behavior*, **J. Phys. Chem. C**, 2013, 117, 25146-25159. [Print Edition ISSN: 1932-7447, Web Edition ISSN: 1932-7455] IF 4.48

Web link: <https://pubs.acs.org/doi/abs/10.1021/jp408850m>

7. Soumya Sundar Mati, S. Singha Roy, S. Chall, S. Bhattacharya, S. C. Bhattacharya, *Unveiling the Groove Binding Mechanism of a Biocompatible Naphthalimide-Based Organoselenocyanate with Calf Thymus DNA: An "Ex Vivo" Fluorescence Imaging Application Appended by Biophysical Experiments and Molecular Docking Simulations*, **J. Phys. Chem. B**, 2013, 117, 14655–14665.[Print Edition ISSN: 1520-6106, Web Edition ISSN: 1520-5207] IF 3.14

Web link: <https://pubs.acs.org/doi/10.1021/jp4090553>

6. A. Pan, Soumya Sundar Mati, B. Naskar, S. C. Bhattacharya, S. P. Moulik, *Self-aggregation of mega-9 (n-n-nanoyln-methyl-d-glucamine) in aqueous medium: physicochemistry of interfacial and solution behaviors with special reference to formation energetics and micelle microenvironment*, **J. Phys. Chem. B**, 2013, 117, 7578–7592.[Print Edition ISSN: 1520-6106, Web Edition ISSN: 1520-5207] IF 3.14

Web link: <https://pubs.acs.org/doi/10.1021/jp400139d>

5. S. Rakshit, S. Ghosh, S. Chall, Soumya Sundar Mati, S.P. Moulik, S. C. Bhattacharya, *Controlled synthesis of spin glass nickel oxide nanoparticles and evaluation of their potential antimicrobial activity: A cost effective and eco friendly approach*, **RSC Adv.**, 2013, 3, 19348–19356. [ISSN 2046-2069] IF 2.94

Web link: <https://pubs.rsc.org/en/content/articlelanding/2013/ra/c3ra42628a>

4. Soumya Sundar Mati, S. Sarkar, S. Rakshit, A. Sarkara, S. C. Bhattacharya, *Probing the spectral response of a new class of bioactive pyrazoline derivative in homogeneous solvents and cyclodextrin nanocavities: a spectroscopic exploration appended by quantum chemical calculations and molecular docking analysis*, **RSC Adv.**, 2013, 3, 8071–8082. [ISSN 2046-2069] IF 2.94

Web link: <https://pubs.rsc.org/en/content/articlelanding/2013/ra/c3ra40749g>

3. S. Rakshit, S. Chall, Soumya Sundar Mati, A. Roychowdhury, S.P. Moulik, S. C. Bhattacharya, *Morphology control of nickel oxalate by soft chemistry and conversion to nickel oxide for application in photocatalysis*, **RSC Adv.**, 2013, 3, 6106–6116. [ISSN 2046-2069] IF 2.94

Web link: <https://pubs.rsc.org/en/content/articlelanding/2013/ra/c3ra21978j/unauth>

2. Soumya Sundar Mati, S. Sarkar, P. Sarkar, S. C. Bhattacharya, *Explicit Spectral Response of the Geometrical Isomers of a Bio-Active Pyrazoline Derivative Encapsulated in β -Cyclodextrin Nanocavity: A Photophysical and Quantum Chemical Analysis*, **J. Phys. Chem. A**, 2012, 116, 10371–10382. [Print Edition ISSN: 1089-5639, Web Edition ISSN: 1520-5215] IF 2.83

Web link: <https://pubs.acs.org/doi/abs/10.1021/jp307964z>

1. Soumya Sundar Mati, T. K. Mondal, S. Dhar, S. Chall, S. C. Bhattacharya, *Differential contribution of Igepal and CnTAB micelles on the photophysics of nonsteroidal drug Naproxen*, **Spectrochimica Acta Part A**, 2012, 92, 122– 130. [ISSN: 1386-1425]. IF 2.09

Weblink:

<https://www.sciencedirect.com/science/article/abs/pii/S1386142512001461?via%3Dihub>

B. Published papers in Seminars/Symposia/Conferences:

1. **7th Regional Science and Technology Congress, 2024-25**, Organised by Midnapore College (Autonomous) & Department of Science & Technology and Biotechnology, Government of West Bengal on 3rd and 4th January 2025 Topic : *Spectroscopic charecterization of keto-enol tautomers and structural isomers in a newly synthesized molecule: Experimental and Computational approach*, **Page 64** [ISBN: 978-81-979322-2-9]

C. Published Books / Chapters in Books:

5. **Soumya Sundar Mati***, Nature and Society in the Realm of Science, **Kabitika Publishers**, Kolkata 700107, **Book Chapter 10, 2023 (March), Page 105-110. Chapter name:** Cleaning action of soap and detergents: Micelle formation and functioning process [ISBN: 978-93-94830-71-4].

4. **B. Samai***, **Soumya Sundar Mati**, Proceedings of Nanomaterials Physics and Chemistry: Recent Development and Applications, **LAP LAMBERT Academic Publishing**, 17 Meldrum Street, Beau Bassin 71504, Mauritius, **Book Chapter 2, 2022 (June), 14-25. Chapter Name:** Inhibition of Lysozyme Amyloid Fibrillation by Graphene Oxide Quantum Dot [ISBN: 978-620-4-98114-7].

3. **Soumya Sundar Mati*** and Puja Paul, *Chemistry and Biology: Sustainable Progress in Human*, **Scientific World**, Kolkata, West Bengal 700007, **Book Chapter 13, 2020, 174-182. Chapter Name:** Interaction of Small Molecules with DNA: An Overview on Mode of Binding. [ISBN: 978-93-84387-76-1].

2. **Soumya Sundar Mati***, *Proceedings of Recent Trends in Nanomaterials and Nanobiomaterials*, **LAP LAMBERT Academic Publishing**, 17 Meldrum Street, Beau Bassin 71504, Mauritius, **Book Chapter 3, 2020, 18-22. Chapter Name:** Silver Nanocluster assisted Metalion Sensing [ISBN: 978-620-2-79831-0].

1. **Soumya Sundar Mati***, S. Sarkar, D. Singharoy, **The Importance of Intermolecular Interactions in Solid-State X-Ray Crystal Structures**, Saikat Kumar Seth, **New Academic Publishers**, New Delhi, 2016, **Book Chapter 5, 80-97.** [ISBN: 9788186772898]

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D. Participation in Seminars/Symposia/Conferences/Workshops:

Sl. No.	Name of the Seminar /Symposium/Webinar	Organizer	Date	International/ National	Nature of Presentation
18	International Webinar on Current Trends in Chemical Sciences (CTCS-2025)	Department of Chemistry, Bhatler College, Dantan (Autonomous)	19th December, 2025	International	Participation
17	International Seminar on Recent Advancements in Basic, Applied & Materials Sciences-2025	Department of Chemistry and Physics, T.P.S. College, Patna	18th to 19th September 2025	International	Oral Presentation
16	National Seminar on Recent Trends in Nanostructure Materials and Fluorescence Spectroscopy	Organized by Department of Chemistry, Ghatal R. S. Mahavidyalaya	28th May, 2025	National	Oral Presentation
15	One day International Seminar on EMERGING TRENDS IN SCIENCE AND TECHNOLOGY	Organized by Department of Chemistry, Kharagpur College	23 rd May, 2025	International	Oral Presentation
14	7-Day Workshop on 'Recent Trends in Career Opportunities in Higher Education in the Light of NEP 2020'	Career Counselling Cell and IQAC, Haldia Government College	19 th December, 2023	University Level	Invited Lecture presented
13	National Conference on 'EMERGING DIMENSIONS IN CHEMICAL SCIENCES (EDCS-23)'	Kalyani University	28-29 th March, 2023	National	Participation and Poster Presentation
12	International Symposium On " Innovation, Extension, Impacts and Challenges in Chemical and Biological Sciences" ICBS 2023	Surrendranath College, Kolkata	04 th January, 2023	International	Participation
11	NSS Special Camp	NSS Unit 1, GGDC, Keshiary and Kusumpur Gram Panchayet, Keshiary	17 th and 18 th October, 2022	University Level	Popular Lecture delivered

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10	Two Days National Webinar on "Recent Trends in Chemistry at the Interface with Biology"	Bagnan College, Howrah	30 th and 31 st August 2020	National	Participation and Poster Presentation
9	Two days International webinar on 'Chemistry and Biology : Sustainable Progress of Human Civilization'	P.K. College, Contai, Purba Medinipur	29 th and 30 th June, 2020	International	Participation and Poster Presentation
8	Two days International webinar on "Recent Trends in Nanomaterials and NanoBiomaterials (RTNN)"	Narajol Raj College, Paschim Medinipur	14 th and 15 th June, 2020	International	Participation and Poster Presentation
7	Popular Lecture on "Cleaning Action of Soap" (Popular Lecture series Sl No. 32)	Seminar and Symposium Committee, GGDC, Keshiary	7 th February, 2020	College Level	Popular Lecture delivered
6	National seminar on "Emerging Trends in Chemical Sciences"	Jadavpur University	7 th January, 2020	National	Participation and Poster Presentation
5	Itinerary of Classical to Modern Era of Chemistry	Dept. of chemistry, The Bhawanipur Education Society College	04.11.2019	International	Poster
4	International Conference on Chemistry for Human Development (ICCHD - 2018)	Dept. of chemistry, University of Calcutta	08.01.2018-10.01.2018	International	Poster
3	UGC-Sponsored National Seminar on Recent Development in Bio-active Molecules (RDBAM-2016)	Department of Chemistry, Haldia Govt. College,	04.08.2016-05.08.2016	National	Oral
2	Chemistry of Functional Materials of Current Interest (CFMCI-2016)	Dept. of Chemistry, Jadavpur university	16.03.2016	National	Participated

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1	Trombey Symposium on Radiation and Photochemistry (TSRP 2016)	BARC, Mumbai	05.01.2016-09.01.2016	International	Poster
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➤ **Participation in OP/RC/FIP/FDP:**

Name of the Course	Place	Duration	Sponsoring Agency
Refresher Course "Sustainability...in Chemistry" organised by ,	HRDC- Jadavpur University	12/02/2024 to 28/02/2024	UGC
125 th Orientation Programme	HRDC-University of Calcutta	04/02/2019 to 04/03/2019	UGC
Refreshers course on "Application of Nanoscience"	HRDC-The University of Burdwan	25/06/2019 to 08/07/2019	UGC

➤ **Membership of Learned Societies/ Editorial Boards, etc. (if any):**

1. Editorial member of "*American Journal of Physical Chemistry(AJPC)*"ISSN: 2327-2430 (Print) ; ISSN: 2327-2449 (Online) October, 2019- October, 2022
2. *American Chemical Society (ACS)* [Membership No. 30887030] 08.07.15-08.07.18

➤ **Patents (if any):** Nil

➤ **Awards (if any):**

Awarded DR. D. S. Kothari Post-Doctoral Fellowship, 2015
 CSIR-UGC National Eligibility Test (NET), 2011, 2010, 2010
 GATE, Chemistry, 2010
 Rank 3rd in B.Sc 2008 in The University of Burdwan

➤ **Other notable activities (if any):**
