CURRICULUM VITAE

Miss Shatarupa Basak
Senior Research Fellow,
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Education

- **Ph.D. in Chemistry (Thesis submitted)**
  University of North Bengal, India, *(to be awarded)*
  Thesis: *Extensive Investigation of Nanomaterials of Zinc and Iron Metal Oxides and Their Applications in Biological and Chemical Sciences.*
  Advisor: *Professor Mahendra Nath Roy*
- **Master of Science in Chemistry (79.94%)**
  University of North Bengal, India, *2017*
- **Bachelor of Science in Chemistry (74.75%)**
  University of Gour Banga, India, *University 2nd–Silver Medallist, 2015*
- ***Bachelor of Education (B.Ed) in Physical Science,*** WBUTTEPA, India, 2019

Qualified in National and State Examinations

- **National Eligibility Test (NET-JRF),** *June 2017*
  University Grants Commission –Junior Research Fellow
  All India rank **43**
- **Graduate Aptitude Test in Engineering (GATE**),
  2019
- **WB State Eligibility Test (WBSET)**, 2018
- **Joint Admission Test for M.Sc. (JAM),** *2015*

Experiences

- **Research involvement, essential lab activities and the capability to analyze and interpret the composition of various chemical systems and indispensable. (01-07-2019 to till now)**
- **Served as a Guest Faculty at Malda College (03-11-2017 to 29-06-2019)**

Research Area

- **Nanomaterials, Supramolecular chemistry and Solution thermodynamics**

Expertise

- **UV-visible spectrophotometer, FTIR, NMR 300 MHz, Fluorescence spectrometer, DLS Malvern Zetasizer**

Publications

[1] Chemical Physics Letters, 2021, **1225**, 129093.
[2] New Journal of Chemistry, 2022, **46**, 18055-18068.
[3] Journal of Molecular Structure, **2023**, 1283, 135267.

[4] New Journal of Chemistry, 2024,**48**, 3624-3637.
[5] Scientific Reports, 2023, **13**, 21542.
[6] Microchemical Journal, 2022, **179**, 107514.
[7] Journal of Molecular Structure, 2022, **1257**, 132571.
[8] Environmental Nanotechnology, Monitoring & Management, 2021, **16**, 100539.
[9] ACS Applied Biomaterials, 2022, **5**(12), 5518-5531,
[10] Chemical Engineering Journal, 2023, **463**, 142355
[11] Environmental Science and Pollution Research, 2023, **30**, 43300-43319.
[12] Inorganic Chemistry, 2023, **62**(29), 11291–11303.
[13] Journal of Chemical, Biological and Physical Sciences, 2021, **11**(1), 147-170.
[14] Journal of Molecular Liquids, 2022, **348**, 118429.
[15] Journal of Chemical, Biological and Physical Sciences, 2020, **11**(1), 066-081.
[16] ACS Omega, 2022, **7**(5), 4457-4470.
[17] ACS Omega, 2022, **7**(30), 26211-26225.
[18] Journal of Chemical, Biological and Physical Sciences, 2020, **11**(1), 066-081.
[19] Journal of Chemical, Biological and Physical Sciences, 2021, **11**(4), 427-444.
[20] Journal of Molecular Liquids, 2023, **378**, 121583.
[21] Journal of Molecular Liquids, 2021, **341**, 116933.
[22] RSC Advances, 2022, **12**, 30936
[23] Chemistry Select, 2022, **7**, e202201186.
[24] Journal of Advanced Chemical Sciences (JACS), 2020, **6**(2), 676-681.
[25] Research Aspects in Biological Science (Book chapter), 2022, **7**, 156–174.

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