

CURRICULUM VITAE

RAJARSHI ACHARYYA

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Home Address: AC 24 Salt Lake City, Sector 1, Kolkata 700064, India

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EDUCATION:

- St. Xavier's Collegiate School, Class of 2014. Scored 94% in 10th Standard examination (aggregate) and 92% in 12th Standard examination (Physics, Chemistry, Mathematics, Biology as main subjects)
- Bachelors in Chemistry Honours from St. Xavier's College (Autonomous), Kolkata with aggregate percentage of 61.61% [Class of 2017]
- Masters in Applied Chemistry from National Institute of Technology (NIT), Silchar, Assam with aggregate CGPA of 8.71. Obtained post graduation degree in November 2019
- Accepted for Summer Research Fellowship Program (SRFP), 2018 at JNCASR, Bangalore.
- Appeared for the General Graduate Record Examination (GRE) in September 2019 with score of 318 (Verbal: 154; Quantitative: 164)
- Appeared for the Test Of English as a Foreign Language (TOEFL) in November 2019 with a score of 118 (Speaking:30; Writing:30; Reading:29; Listening:29)
- Currently pursuing Graduate degree at Florida State University (FSU) under the guidance of Dr. Geoffrey Strouse, Department of Chemistry and Biochemistry.

RESEARCH INTEREST:

Exploration of sustainable and environmentally benign reaction protocols for the synthesis and design of inorganic materials and their subsequent applications in the fields of bioremediation, catalysis of industrially important organic reactions, renewable energy generation and biomedicine.

WORK DONE:

- Final Semester project (2017), a Literature Review, for Bachelors degree under Prof Indranil Chakraborti, Department of Chemistry, St. Xavier's College, on the 'Optical Properties of Semiconducting Nanoparticles and their Application in the Degradation of Organic Dyes in Wastewater Management'.
- Worked on synthesis of nanoparticles and coating of synthesized nanoparticles on paper surface in a short project in the laboratory of Prof. Sampa Chakrabarti, Department of Chemical Engineering, University of Calcutta.
- Worked on 'MOF-derived mixed metal oxide doped carbon nanocomposite for electrochemical applications' in a summer project (2018) under the supervision of Prof.

Tapas K. Maji (Shanti Swarup Bhatnagar 2019 Awardee), Chemistry and Physics of Materials Unit (CPMU), Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore.

- Final Semester Project for Master degree thesis submission (2019) on 'Preparation and Characterization of MoO₃ bonded imidazolium sulphonic acid chloride as photocatalyst for the degradation of Rhodamine B under solar light irradiation' under the supervision of Prof S. S. Dhar, Dept of Chemistry, National Institute of Technology (NIT), Silchar.

- Presented a talk at ACS Fall 2021 in Atlanta titled 'Designing Anisotropic Ni based Nanocatalysts for Electrochemical Applications'.

- Appeared for the Second Year Talk in the Graduate program titled 'Modulation of LSPR Frequency and Carrier Density in InN Nanocrystals'.

- Worked on the 'Biosynthesis and Characterization of Silver Nanoparticles prepared from *Zinnia elegans* plant extract' in a project under the guidance of Dr. Chittaranjan Patra, Principal Scientist, CSIR-Indian Institute of Chemical Technology (IICT), Hyderabad and overall supervision of Dr. Manika Pal Bhadra, Senior Principal Scientist and Chair Person- Applied Biology Department, CSIR-IICT Hyderabad.