

CURRICULAM VITAE

INDRAJIT DAS

PERSONAL DETAILS

Date of birth : 08/02/1995

Sex : Male

Present Address : IIT Madras, Sindhu Hostel, Room No – 7004,
Chennai, Pin - 600036

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EDUCATIONAL DETAILS

DEGREE	BOARD/ UNIVERSITY	YEAR OF PASSING	SUBJECTS	Marks (%)
Secondary(10)	West Bengal Board of Secondary Education	2010	Mathematics, Physical science, Life science, History, Geography English, Bengali	88.25%
Higher Secondary (10+2)	West Bengal Board of HigherSecondary Education	2012	Chemistry, Mathematics, Physics, Biology, English, Bengali	81%
B.Sc (Honours in chemistry)	Midnapore College, Vidyasagar University, West Bengal	2015	Organic, Physical Inorganic & Analytical chemistry, Physics, Mathematics	55%

M.Sc	Indian Institute of Technology Madras	2017	Physical, Organic & Inorganic chemistry	69.9%
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RESEARCH INTERESTS

- Advanced thermodynamics
- Ionic liquids
- CO₂ gas capturing and its utilization
- Phase equilibrium study
- Spectroscopic techniques

RELEVANT COURSES

- **Physical Chemistry:** Principle of Quantum Mechanics and Computational Chemistry, Equilibrium Thermodynamics and Statistical Mechanics, Chemical Kinetics and Photochemistry, Application of Quantum Mechanics and Group Theory, Molecular Spectroscopy, Surface and Interface, Macromolecule, Dispersed Phase, Advanced solution state Thermodynamics, Experimental Methods in Chemistry.
- **Inorganic Chemistry:** Transition metal and organometallic chemistry, Main group and bioinorganic chemistry, Magneto chemistry and solid state chemistry, Spectroscopy for solid state chemistry.
- **Organic chemistry:** Conceptual organic chemistry and introductory biochemistry, Reactive intermediate and concerted reaction, Modern synthetic methodology of organic synthesis, Structure determination of organic molecules from spectroscopy.

JOB EXPERIENCE

Did 1 year school teaching at Dr. G S Kalyanasundaram Memorial School as a trainer for NEET and JEE examination.

RESEARCH EXPERIENCE

MASTER'S THESIS: A full one year of project under Dr. Ramesh L. Gardas, Associate professor at IIT Madras
Physicochemical and crystallographic study of protic and aprotic ionic liquids and their application in daily life.

PUBLICATIONS

- Understanding the solvation behavior of tetramethylguanidinium based ionic liquids in dilute aqueous solutions through apparent molar properties

I Das, B kumar Chennuri, V Ramkumar, RL Gardas, Journal of Molecular Liquids 242, 129-136

- Structural Arrangement and Computational Exploration of Guanidinium-Based Ionic Liquids with Benzoic Acid Derivatives as Anions

V Ramkumar, I Das, RL Gardas, Crystal Growth & Design 19 (5), 2642-2657

- Thermodynamic Analysis of Ionic Liquids for CO₂ Capture, Regeneration and Conversion, I

Das, V Ramkumar, RL Gardas, Climate Change and Green Chemistry of CO₂ Sequestration, 123-140

ACADEMIC ACHIEVEMENTS

- Secured rank 3 in Secondary exam in West Bengal. (Among backward class students)
- Merit cum means scholarships for secondary and higher secondary exam. (Among the top 1% students of West Bengal)
- Qualified in Joint admission for M.Sc examination.
- Recipient of Institute Free Studentship Scholarship at IIT Madras.

SCIENTIFIC SKILLS

- MS Office, Windows XP, 7, 8, 10
- Origin, EC Lab, Chemdraw, MATLAB
- Experienced in spectroscopic technique like NMR spectroscopy, UV Spectroscopy, IR spectroscopy. Familiar with mass and EPR spectroscopy techniques.
- Expert in CO₂ gas capturing and its utilization.
- Expert in Phase equilibrium

CO-CURRICULAR ACTIVITIES

- Participated in Medicinal Chemistry Conference (MEDCHEM 2015) held at IIT Madras, Chennai, Tamil Nadu.
- Participated and Volunteered in Chemistry In-House Symposium (CIHS - 2015, CIHS - 2016) organized by Department of Chemistry, IIT Madras.

EXTRA-CURRICULAR ACTIVITIES

Participated & won Intra School Football, Cricket and Badminton tournaments

OBJECTIVES

- I am keenly interested in innovative and challenging opportunity and position myself, so as to utilize my academic and practical skills to accomplish the goal of the company.
- I have the ability to learn the emerging technologies quickly and utilize them in developing myself in order to achieve my target.

I would like to associate with an organization where I can share, contribute and upgrade my knowledge for the development of the organization.

I Indrajit Das, do hereby confirm that information given above is true to the best of my knowledge.

Date : 25/07/2021

Place : Chennai

Indrajit Das