PRAVESH TRIPATHI

Personal details

Current address: Room no- 3, 1420, Mukherjee Nagar, Delhi, 110009, India.
Permanent address: 27, Devlakh, Chopra, Rudraprayag, Uttarakhand, 246495, India.
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Education

I.I.T. Guwahati *2017 – 2019*

Master of Science in Chemistry

Final C.P.I.: 7.73

Courses taken:

Transition and non-transition metal chemistry, principle of organic chemistry, Quantum chemistry, Group theory and spectroscopy, Inorganic reaction mechanism and organometallics, Organic reaction mechanism, chemical dynamics and electrochemistry, Application of spectroscopy, principle of Bio-inorganic chemistry, Concept in organic synthesis, Modern technique and scope of chemical biology, Classical and statistical thermodynamics, Advance Organometallic Chemistry(elective), Supramolecular Chemistry(elective), Inorganic chemistry laboratory, Organic chemistry laboratory, physical chemistry laboratory.

Indira Gandhi National Open University *2016 – 2017*

Post Graduate Diploma in Analytical Chemistry

Final percentage: 77

Courses taken:

Basic Analytical Chemistry, Separation Methods, Spectroscopic Methods, Electroanalytical and Other Methods, Basic Analytical Chemistry Lab, Separation Methods Lab, Spectroscopic Methods Lab, Electroanalytical and Other Methods Lab.

University of Delhi *2013 – 2016*

Bachelor of Science in Chemistry

Final percentage: 74.76

Courses taken:

Basic Concepts and Stereochemistry, Chemical Bonding Acids and Bases, language and creativity English, Business and management, Building Mathematical Ability, Aliphatic Hydrocarbon, Chemical Thermodynamics and System of Variable Composition, Applied language course(English), Information technology, Principle of metallurgy, Chemical, Phase, and Ionic Equilibrium, Aromatic Hydrocarbon, Halogenated Hydrocarbon, Alcohols and Phenols, Carbonyl Compounds and Carboxylic Acids, Chemical Kinetics and Catalysis, Calculus, Compound containing active methylene, Nitrogen-Containing Functional Groups, Polynuclear Hydrocarbons and Heterocycles, Electrochemistry, Electricity and magnetism, s, p, d, f-block elements, Coordination Chemistry, Carbohydrates, Spectroscopy and dye, Reaction rates and Mechanism, Organometallic and bio Inorganic Chemistry, Quantum Chemistry, Photochemistry and Surface Chemistry, Chemistry of Inorganic Solids, Nanomaterial, Chemistry of Biomolecules.

C.B.S.E *2011 – 2013*

Higher secondary examination

Final percentage: 82.33

Subjects taken:

Chemistry, Physics, Maths, Computer, English, Physical Education

Research experience

"Effect of ions on the proton transfer process of 3,5-bis(2-hydroxyphenyl)-1H-1,2,4-triazole"

Jan 2019 – May 2019

Master Thesis

Mentor: Prof.G. Krishnamoorthy

Department of chemistry, IIT Guwahati

In this work, we had investigated the effect of cations and anions on the proton transfer process of bis-HPTA. Titration of a molecule with various metal ions and anions were done to study their effect on proton Transfers.

Publication

Ila , Mongoli Brahma, Sanjeev Ranjan, **Pravesh Tripathi**, G. Krishnamoorthy *Spectrochimica Acta, Part A: Molecular and Bimolecular Spectroscopy*, 272, 5 2022, Link

Skills

Software: Origin Pro 8.5, Pymol, ChemDraw, Adobe Illustrator, Microsoft Office, Windows 10, 8.1, 7, XP, Ubuntu.
Programming Language: C, FORTRAN 77, Python
Experimental: FT-IR, UV-VIS Spectrometer, Spectrofluorometer (HITACHI F7000), Column Chromatography.

Extracurricular activities

1. Completed course on Organometallic Chemistry by National Programme on Technology Enhanced Learning
2. Cadet, National Cadet Corps and obtained A certificate
3. Volunteer, Deshbandhu College Annual sports meet, New Delhi, 2015
4. Contech 2015: Certificate of participation organized by T.I.F.R. Mumbai.

Workshops

1. Research Conclave 2019: Certificate of participation three-day workshop on Intellectual Property Rights, I.I.T. Guwahati
2. IIChE-GRC workshop on Ansys: Certificate of the participation 1-day workshop, I.I.T. Guwahati
3. National conference on 'Nanoscience-opportunities and challenges': Certificate of participation 2-day workshop, Maitreyi College, University of Delhi

International Seminar and lecture attended

1. Attended seminar about *"Hybrid silica for Application in catalysis and Nano medicine Fields"* by Dr.Michel Wong Chi Man, Directeur de Recherche C.N.R.S., France at I.I.T. Guwahati.
2. Attended lecture by Dr.Nadarian Siman, Inventor of D.N.A. Nanotechnology at I.I.T. Guwahati.
3. Attended a lecture by Dr.Thomas Barclay, Director of Kepler/k2 Guest observer office, NASA at I.I.T. Guwahati.

References

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