

DR. INDUMATHY RAMASAMY

Name : INDUMATHY RAMASAMY
Designation : Assistant Professor
Date of Birth : 20.12.1980
Address : 5/405, Kumar Nagar, Backside to PKD School, Pollachi.
Email : indu_mathi99@yahoo.com
Contact number : 9629924694
Educational : M.Sc., Ph.D.,

Qualification	Course	Major subjects	College/University/Institution	Year of Passing
	B.Sc.	Chemistry	NGM College, Pollachi	2002
	M.Sc.	Chemistry	Bharathiar University, Coimbatore	2004
	Ph.D.	Chemistry	CSIR-Central Leather Research Institute, Chennai	2012

Teaching Experience : 3 Years
Research Experience : 11 Years
Research Guidance : M.Phil. & Ph.D.
Area of Specialization : Co-ordination chemistry, Bio-inorganic chemistry
Area of Interest : Inorganic chemistry and spectroscopy

Awards and Recognitions

- Recipient of Silver Medal for securing 2nd rank in B.Sc.
- Recipient of Dr. K.M. Marimuthu Endowment Gold Medal for securing 1st rank in M.Sc.
- Graduate Aptitude Test in Engineering awarded by IIT-Kharagpur on behalf of Dept. of Secondary and Higher Education, Ministry of Human Resources Development, Government of India, 2006, GATE Score: 92.3
- Qualified entrance exam for Ph.D. conducted by Indian Institute of Science (IISc) Bangalore, 2006
- Selected as chemist by TNPSC for direct recruitment in Tamilnadu Industries and Commerce Department (2006-2007)

- Qualified Group 2, TNPSC exam as chemist for direct recruitment in Tamilnadu Forensic science department
- Recipient of Department of Science and Technology (DST), SERC, Pre-Doctoral fellowship under the scheme “New Initiatives in Bio-inorganic Chemistry”
- Recipient of Council of Scientific and Industrial Research (CSIR), Senior Research Fellow (SRF)
- Recipient of DST-INSPIRE Faculty Fellowship

Academic Activities

- Industrial visit (For M.Sc.Students, Karunya University) to **Siruvani Water Treatment Plant** in Siruvani, Coimbatore on 3rd December 2015.
- Conducted Industrial visit to **NIO** and **CMFRI**, Kochi for final year B.Sc. students of NGM College during 5th to 6th October 2016.
- Guided students to participate various events in “**CHEMFUSION 17**” held at Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore during 17th August 2017.

Presenting Guest Lectures

- Delivered a lecture on “**Organic Reaction Monitoring using IR**” for one day workshop on “Hands on Training in Organic Reaction Monitoring using TLC, HPLC and IR” held during March 1st 2016, at Karunya University, Department of Chemistry, Coimbatore.
- Demonstrated handling procedure of the instrument in one day workshop on “**Hands on Training in UV-visible spectrophotometer**” held during 24th February 2017 in NGM College.

Seminar, Workshop, Conferences attended/Papers Presented

- Saravanabhavan S, **Indumathy R**, Radhika S, Sreeram KJ, Rao JR, Nair BU and Ramasami T; Use of Proteinous waste from leather industry for the removal of dyes from Tannery Wastewater, Presented a poster at National level conference on “Frontiers in Environmental Sciences and Engineering in India”, Organized by Dept. of Environmental Sciences, at Bharathiar University, Coimbatore, 15th - 17th September 2005 and at CLRI, Chennai, in connection with the CSIR foundation day celebrations on 26th September 2005.

- **Indumathy R**, Sreeram KJ and Nair BU; Template Synthesis and Characterization of Iron Oxide Nanoparticles, Presented a poster in “International Conference on Nanoscience and Nanotechnology” (ICNST- 2006) conducted by Centre of Nanoscience and Nanotechnology, University of Madras, Guindy campus, Chennai during the period 26th- 28th August 2006.
- **Indumathy R** and Nair BU; Synthesis, Characterization and DNA binding studies of cobalt complexes, An oral presentation in the National Conference on “Recent Advances in Metal –Organic Chemistry & Materials Science” (RAMMS-2007) held at PSG College of Technology, Coimbatore during 5th- 7th July 2007.
- **Indumathy R** and Nair BU; Unusual oxidation of imidazole ring in a metal-organic framework, Presented a poster at “Modern Trends in Inorganic Chemistry” (MTIC-XII), held at IIT- Madras, 6th -8th December 2007.
- Attended the conference “**10th CRSI National Symposium in Chemistry and 2nd CRSI-RSC symposium**” held during 31st January and 1-3 February 2008, at IISc Bangalore.
- **Indumathy R** and Nair BU; Does Chlorine Oxidize Cobalt or Ligand or Both in a Terpyridyl Cobalt Complex?, Presented a poster at 13th CRSI & 5th CRSI-RSC symposium on chemistry” held during 4th to 6th February 2011, at NISER & KIIT university, Bhubaneswar.
- Participated in the workshop on “**Instrumental Methods of Analysis**” conducted jointly by the Western Regional Instrumentation Centre, Mumbai and Sophisticated Test and Instrumentation Centre (STIC), Cochin University of Science and Technology, during the period 9th -13th October 2006 at STIC, Kochi.
- Participated in the Brainstorming workshop on “**Mudbanks of Kerala: The known and the unknown**” conducted by RC-NIO, held during 20th and 21st of January 2014 at Kochi.
- Attended the training programme on “**Water Resources Management**” from March 12-14, 2014 at Centre for Water Resources Development and Management (CWRDM), Kunnammangalam, Kozhikode (Calicut), Kerala, India jointly organized and supported by CWRDM, Calicut and Ministry of Drinking Water and Sanitation, Government of India.

- Attended Seminar on “**Optimize Your Lab Productivity**” by Agilent Technologies at Vivanta by Taj –Surya, 105, Race Course Road, Coimbatore 641 018, India on 21st January 2016.
- Attended Science Academies’ Lecture workshop on “**Advances in Materials Electrochemistry**” organized by the Department of Chemistry (PG & research) Kongunadu Arts and Science college, Coimbatore, Tamilnadu on 21st and 22nd July 2017.
- Extended support in organizing two days workshop on “**An Introductory Workshop on Intellectual Property Rights (IPR) and its Applications**” by Dr. T. Pavan Kumar, Manager (IP & TT), National Research Development Corporation (NRDC), New Delhi held during 14th December 2017 to 15th December 2017.
- Supported in organizing two days Science Academies Lecture Workshop on “**Recent Trends in Chemistry**” from January 11th to January 12th, 2018.
- Participated in Science Academies’ Lecture workshop on “**Recent Innovations in Chemical Sciences and Technology**” organized by the Post Graduate and Research Department of Chemistry, PSGR Krishnammal College for Women, Coimbatore, Tamilnadu on 8th and 9th February 2018.
- Attended Science Academies’ Lecture workshop on “**FRONTIERS IN SPECTROSCOPY**” organized by the Department of Chemistry (PG & Research) Kongunadu Arts and Science college, Coimbatore, Tamilnadu on 12th October 2018
- Participated in **FACULTY IMPROVEMENT PROGRAMME** on “**Quantitative and Qualitative aspects of Practical Chemistry**” conducted by Department of Chemistry, Sri G.V.G Visalakshi College for Women, Udumalpet on 13.12.2018.

Faculty Development program attended

- Attended “Faculty Orientation programme” conducted by Academy For Professional Development during the period 1-3rd September 2016 at NGM College, Pollachi.
- Attended UGC sponsored workshop on **e-CONTENT DEVELOPMENT** organized by Avinashilingam School of Management Technology at Avinashilingam Institute for Home science and Higher Education for Women, Coimbatore from 18.01.2018 to 20.01.2018.
- Participated in “Workshop on e-Content Development” organized by Nallamuthu Gounder Mahalingam College, Pollachi, held on 11th April, 2018.

Papers Published in Journal

- Sreeram KJ, **Indumathy R**, Rajaram A, Nair BU and Ramasami T (2006) Template synthesis of highly crystalline and monodisperse iron oxide pigments of nano size. Mater. Res. Bull. 41(10), 1875-1881.
- **Indumathy R**, Radhika S, Kanthimathi M, Weyhermuller T and Nair BU (2007) Cobalt complexes of terpyridine ligand: Crystal structure and photocleavage of DNA. J. Inorg. Biochem. 101, 434-443.
- Nidhin M, **Indumathy R**, Sreeram KJ and Nair BU (2008) Synthesis of iron oxide nanoparticles of narrow size distribution on polysaccharide templates. Bull. Mater. Sci. 31(1), 93-96.
- Sreeram KJ, **Indumathy R** and Nair BU (2008) Synthesis of iron oxide nanoparticles using chitosan and starch templates. Transition Met. Chem. 33(1), 127-131.
- **Indumathy R**, Kanthimathi M, Weyhermuller T and Nair BU (2008) Cobalt complexes of terpyridine ligands: Crystal structure and nuclease activity. Polyhedron 27, 3443-3450.
- **Indumathy R**, Weyhermuller T and Nair BU (2010) Biimidazole containing cobalt(III) mixed ligand complexes: Crystal structure and photonuclease activity. Dalton Trans. 39, 2087-2097.
- **Indumathy R**, Sreeram KJ, Sriranjani M, Aby CP, Nair BU (2010) Bifunctional role of thiosalicylic acid in the synthesis of silver nanoparticles. Mater. Sci. Applications. 1, 272-278.
- **Indumathy R**, Weyhermuller T, Rajapandian V, Subramanian V and Nair BU (2012) An unusual oxidation of imidazolyl ring in a cobalt terpyridyl complex: Crystal structure and photonuclease activity of transformed cobalt terpyridyl complex. Polyhedron, 43, 159-169.
- **Indumathy R**, Parameswaran PS, Aiswarya CV and Nair BU (2014) Bibenzimidazole containing mixed ligand cobalt(III) complex as a selective receptor for iodide. Polyhedron, 75, 22-29.