

Dr.LAKSHMI PRABA J.

Assistant Professor,
Department of Chemistry,
Bishop Heber College,
Tiruchirappalli - 17.

E-mail :

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Qualification

Degree	Branch	Institution / University	Year of Passing
Chemistry	Chemistry	Bharathidasan University	2013
Chemistry	Chemistry	Bishop Heber College	2007
Chemistry	Chemistry	Seethalakshmi Ramaswami College	2005

Ph.D. Details

Title of Thesis	Area of Specialization	Research Supervisor	Research Centre	Year of Award
Polyethyleneimine-anchored copper(II) amino acid complexes and surfactant-copper(II) Schiff base complexes synthesis, DNA/RNA binding, antimicrobial studies	Inorganic Chemistry	Prof. C. Arumugam	School of Chemistry	February 2013

Work Experience

Name of Institution	Address of Institution	Designation	From	To
Shrimati Indira Gandhi College	Department of Chemistry, Shrimati Indira Gandhi College, Tiruchirappalli – 620 002	Assistant Professor and Head	16.06.2015	20.8.2016

Teaching / Research Experience

U.G. : 5 years 9

P.G. : 4 years

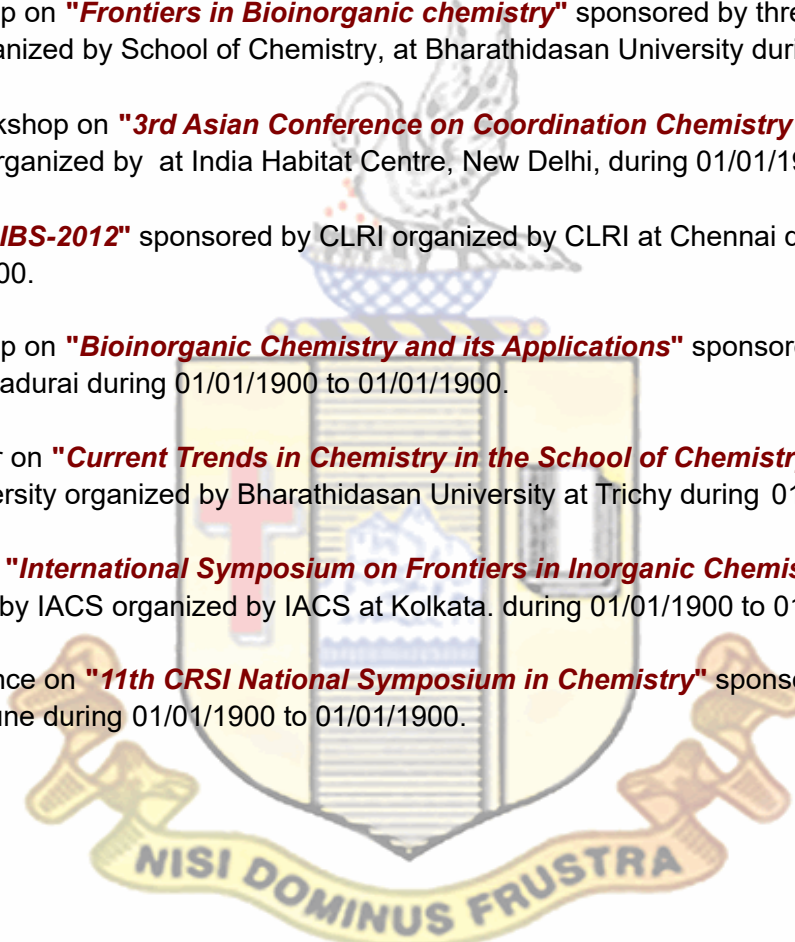
M.Phil.

Ph.D.

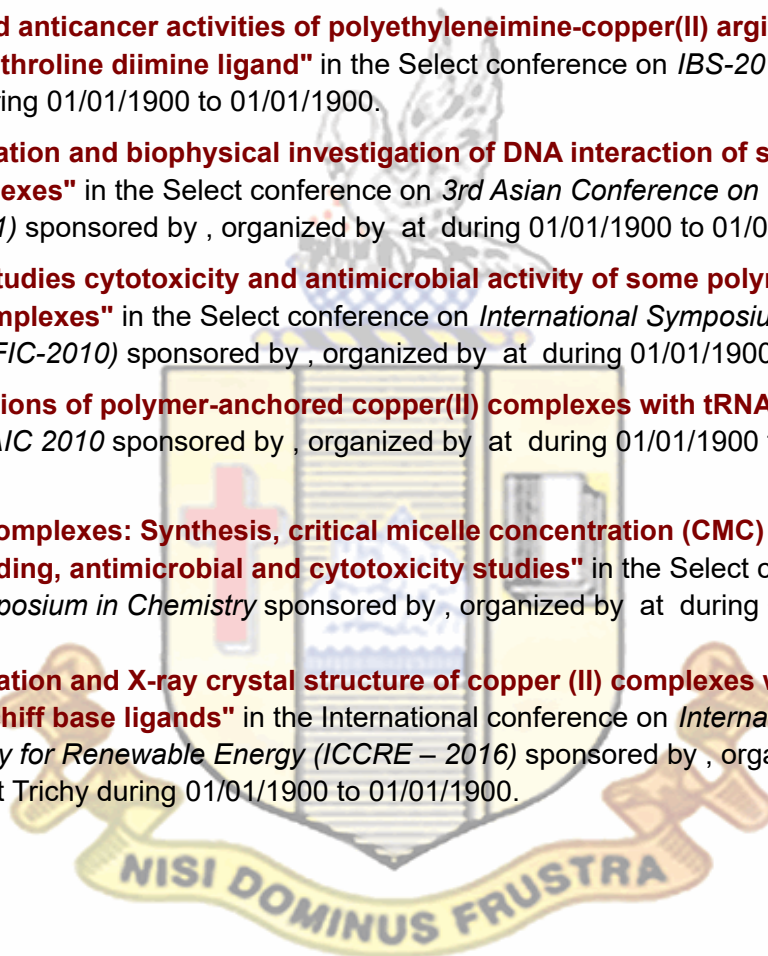
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1. -1 level Workshop on **"Crystallography School for Research students"** sponsored by organized by at during 01/01/1900 to 01/01/1900.
2. International level Conference on **"International Conference on Chemistry for Renewable Energy (ICCRE – 2016)"** sponsored by Bishop Heber College organized by Bishop Heber College at Trichy during 01/01/1900 to 01/01/1900.
3. National level Conference on **"RAIC 2010"** sponsored by MKU, organized by MKU, at Madurai during 01/01/1900 to 01/01/1900.
4. National level Workshop on **"Frontiers in Bioinorganic chemistry"** sponsored by three science academies of India organized by School of Chemistry, at Bharathidasan University during 01/01/1900 to 01/01/1900.
5. International level Workshop on **"3rd Asian Conference on Coordination Chemistry (ACCC3, 2011)"** sponsored by organized by at India Habitat Centre, New Delhi, during 01/01/1900 to 01/01/1900.
6. -1 level Workshop on **"IBS-2012"** sponsored by CLRI organized by CLRI at Chennai during 01/01/1900 to 01/01/1900.
7. National level Workshop on **"Bioinorganic Chemistry and its Applications"** sponsored by MKU organized by MKU at Madurai during 01/01/1900 to 01/01/1900.
8. Regional level Seminar on **"Current Trends in Chemistry in the School of Chemistry"** sponsored by Bharathidasan University organized by Bharathidasan University at Trichy during 01/01/1900 to 01/01/1900.
9. -1 level Conference on **"International Symposium on Frontiers in Inorganic Chemistry (FIC-2010)"** sponsored by IACS organized by IACS at Kolkata. during 01/01/1900 to 01/01/1900.
10. National level Conference on **"11th CRSI National Symposium in Chemistry"** sponsored by CSIR organized by NCL at Pune during 01/01/1900 to 01/01/1900.



1. **"Synthesis, Characterization and Molecular Docking Studies of Zinc complexes for Alzheimer's Disease"** in the International conference on *International conference on application of Basic sciences (ICABS-2020)* sponsored by , organized by Bishop Heber College at Trichy during 21/01/2020 to 23/01/2020.
2. **"A Nickel (II) thiosemicarbazonato complex, synthesis structure and application in catalytic coupling of terminal alkynes with arylboronic acid."** in the International conference on *International symposium on new trends in applied chemistry (NTAC 2019)* sponsored by ACS, organized by Department of Chemistry, Sacred Heart College, Thevara, at Kochi, Kerala during 14/01/2019 to 15/01/2019.
3. **"DNA / RNA Binding and anticancer activities of polyethyleneimine-copper(II) arginine complexes with phenanthroline diimine ligand"** in the Select conference on *IBS-2012* sponsored by , organized by at during 01/01/1900 to 01/01/1900.
4. **"Synthesis, characterization and biophysical investigation of DNA interaction of some binuclear copper complexes"** in the Select conference on *3rd Asian Conference on Coordination Chemistry (ACCC3, 2011)* sponsored by , organized by at during 01/01/1900 to 01/01/1900.
5. **"Nucleic acid binding studies cytotoxicity and antimicrobial activity of some polymer anchored-copper(II) complexes"** in the Select conference on *International Symposium on Frontiers in Inorganic Chemistry (FIC-2010)* sponsored by , organized by at during 01/01/1900 to 01/01/1900.
6. **"Studies on the interactions of polymer-anchored copper(II) complexes with tRNA"** in the Select conference on *RAIC 2010* sponsored by , organized by at during 01/01/1900 to 01/01/1900.
7. **"Surfactant-cobalt(III) complexes: Synthesis, critical micelle concentration (CMC) determination, DNA binding, antimicrobial and cytotoxicity studies"** in the Select conference on *11th CRSI National Symposium in Chemistry* sponsored by , organized by at during 01/01/1900 to 01/01/1900.
8. **"Synthesis, characterisation and X-ray crystal structure of copper (II) complexes with tridentate aminoacid Schiff base ligands"** in the International conference on *International Conference on Chemistry for Renewable Energy (ICCRE – 2016)* sponsored by , organized by Bishop Haber College, at Trichy during 01/01/1900 to 01/01/1900.



1. **"Explorations on the synthesis, structure, DFT, DNA binding properties and molecular docking of tridentate Schiff base Copper (II) complexes"** published in Chemical Physics Impact (PEER REVIEW) Vol. 7, Issue No. , August 2023 ISSN : 2667-0224.
2. **"Studies on the interactions of polymer-anchored copper(II) complexes with tRNA."** published in Transit. Met. Chem., (PEER REVIEW) Vol. 35, Issue No. , January 1900 ISSN : ---.
3. **"Interaction of polyethyleneimine-anchored copper(II) complexes with tRNA studied by spectroscopy methods and biological activities"** published in (SELECT) Vol. , Issue No. , January 1900 ISSN : ---.
4. **"Synthesis, DNA binding and docking studies of copper(II) complexes containing modified phenanthroline ligands"** published in J. Coord. Chem (PEER REVIEW) Vol. 68, Issue No. , January 1900 ISSN : ---.
5. **"Polyethyleneimine anchored copper(II) complexes: Synthesis, characterization, In vitro DNA binding studies and cytotoxicity studies"** published in J. Photochem. Photobiol. B Biol., (PEER REVIEW) Vol. 142, Issue No. , January 1900 ISSN : ---.
6. **"Surfactant-Copper(II) Schiff base complexes: Synthesis, structural investigation, DNA/RNA binding studies and cytotoxic activities."** published in J. Biomol. Struct. Dyn., (PEER REVIEW) Vol. 33, Issue No. , January 1900 ISSN : ---.
7. **"DNA/RNA binding and anticancer/antimicrobial activities of polymer-copper(II) complexes."** published in Spectrochim. Acta A (PEER REVIEW) Vol. 109, Issue No. , January 1900 ISSN : ---.
8. **"Synthesis, nucleic acid binding and cytotoxicity of polyethyleneimine-copper(II) complexes containing 1,10-phenanthroline and L-valine."** published in Eur. J. Med. Chem., (PEER REVIEW) Vol. 46, Issue No. , January 1900 ISSN : ---.
9. **"(E)-N-(pyren-1-ylmethylene)benzenamine: efficient promoter for additive-free palladium catalyzed aerobic oxidative coupling of arylboronic acids and terminal alkynes"** published in Chemical Papers (PEER REVIEW) Vol. 74, Issue No. , January 1900 ISSN : 2585-7290.
10. **" Anthracen-9-ylmethylene-(4-methoxyphenyl)amine: efficient promoter for silver-free palladium-catalyzed aerobic oxidative Sonogashira reactions."** published in Transition Metal Chemistry (PEER REVIEW) Vol. 45, Issue No. , January 1900 ISSN : ---.
11. **"Nickel(II) thiosemicarbazonato complex: synthesis, structure and application in alkynylation coupling of terminal alkynes with arylboronic acids."** published in Transition Metal Chemistry (PEER REVIEW) Vol. 42, Issue No. , January 1900 ISSN : ---.

Publication in Books

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1. **Persistent organic pollutants (Part I): The “dirty dozen” – Sources and adverse effects’ in Organic Pollutants – Toxicity and Solutions.** Aggregation-Induced Emission Based Probes For Metal Ion Sensing’ in *Advances in Chemistry Research*. New York, USA, :Nova Science Publishers, Inc., January 2021.
2. **Persistent organic pollutants (Part II): The new POPs – Sources and adverse effects’ in Organic Pollutants – Toxicity and Solutions.** Springer International Publishing, Switzerland, In Press.. Switzerland :Springer International Publishing, January 2021.
3. **Aggregation-Induced Emission Based Probes For Metal Ion Sensing’.** *Advances in Chemistry Research*,. New York, USA, :Nova Science Publishers, Inc.,, January 2021.
4. **Transition-Metal Mediated Oxidative C-H/C-H Coupling.** *Cross-Coupling Reactions: An Overview*. New York, USA :J. Vrijdag (Editor), Nova Science Publishers, Inc.,, May 2020.
5. **‘Polymer Macromolecules to Polymeric Nanostructures: Efficient Antibacterial Candidates’ in Nanostructures for Antimicrobial and Antibiofilm Applications.** *Nanotechnology in the Life Sciences*),. Switzerland :Springer Nature, January 2020.

Awards Recieved

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Award Name	Presented by	Year	Level	Instituted by / Place	amount
WOSA	DST	01/08/2018	SELECT		28,80,000/-
CSIR SRF	CSIR	01/01/1900	NATIONAL	2011-13	
Project fellow	UGC	01/01/1900	UNIVERSITY	2007-210	

RESEARCH PROJECTS

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1. Minor project entitled **"Environmentally sustainable one-pot Biginelli reaction with potential therapeutic and pharmacological properties"** (PRINCIPAL INVESTIGATOR), Sponsored by TNSCST, during 31/05/2023 to 5/31/2023 [Completed].
2. Minor project entitled **"Syntheses, structural investigations of mixed ligands Cu(II) complexes and the biological activities of the complexes"** (PRINCIPAL INVESTIGATOR), Sponsored by TNSCST, during 01/01/2018 to 31/6/2018 [Completed].
3. Major project entitled **"Palladium(II) mediated C-H activation of multidentate Schiff bases: Syntheses, structural characterization and oxidative C-C coupling reaction"** (PRINCIPAL INVESTIGATOR), Sponsored by DST, during 01/02/2017 to 1/31/2021 [Completed].

Signature of Staff
(LAKSHMI PRABA J.)