

## Dr.I.SHARMILA LYDIA

Associate Professor,  
Department of Chemistry,  
Bishop Heber College,  
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### Qualification

Degree	Branch	Institution / University	Year of Passing
Ph.D	Chemistry	Gandhigram Rural University	2008
M.Phil	Chemistry	Bharathidasan	1990
M.Sc	Chemistry	Annamalai Universatiy	1989
B.Sc	chemistry	Bharathidasan	1985

### Ph.D. Details

Title of Thesis	Area of Specialization	Research Centre	Year of Award
Electron Transfer Reactions of Cobalt(III) Alkyl/Aryl Amine Complexes; Empirical Models and Electrochemical Studies	Inorganic Chemistry	Gandhigram Rural University	October 2008
Research Supervisor Dr K. Anbalagan			

### Additional Qualification

Name of Course	Place of Study	Date	Duration
VALUE ADDED COURSE ON CHEMINFORMATICS	BISHOP HEBER COLLEGE	FEBRUARY 2022	30 HOURS

### Work Experience

Name of Institution	Address of Institution	Designation	From	To
Bishop Heber College	Puthur Tiruchirappalli Tamil Nadu South India 620 017	Associate Professor	14 June 1993	Till date
Sacred Heart Anglo Indian Hr. Sec.School,	Yercaud, Salem District	PG Assistant in Chemistry	08-01-1991	05-31-1993

**Teaching / Research Experience****U.G. :** 29 years**P.G. :** 29 years**M.Phil.** 9 years**Ph.D.**

13 years

**Research Guidance****U.G. :** 5**P.G. :** 47**M.Phil. :** 17**Ph.D. :** 2 completed,**Table of Contents**

1.	<b>Conferences / workshops / Seminars Attended</b>	<b>42</b>
2.	<b>Research Papers Presented</b>	<b>5</b>
3.	<b>Publication in Journals</b>	<b>27</b>
4.	<b>Publication in Books</b>	<b>0</b>
5.	<b>Books Published / Edited</b>	<b>0</b>
6.	<b>Conferences / Workshops / Seminars Organised</b>	<b>4</b>
7.	<b>Research Projects</b>	<b>1</b>
8.	<b>Resource Person</b>	<b>2</b>
9.	<b>Consultancy</b>	<b>1</b>
10.	<b>Awards Recieved</b>	<b>1</b>
11.	<b>Patent</b>	<b>0</b>
12.	<b>Extension Activities Undertaken</b>	<b>1</b>
13.	<b>Professional Membership</b>	<b>3</b>
14.	<b>M.Phil. / Ph.D. Produced</b>	<b>2 / 5</b>

1. International level Conference on **"International Conference on Frontiers in Chemical Research-2021e"** sponsored by Dept. of Chemistry organized by Dept. of Chemistry at BHC during 03/02/2021 to 04/02/2021.
2. International level Conference on **"International Conference on Applications of Basic Sciences"** sponsored by Dept. of Chemistry organized by Departments of Basic Sciences, BHC at BHC during 19/11/2019 to 21/11/2019.
3. International level Conference on **"Chemical Sciences and Nanomaterials-ICCSN-2019"** sponsored by RSC, Thermo Fisher, Sun Teknology, Radiant Research organized by Dept. of Chemistry, SAC, VIT, Vellore. at Vellore during 07/03/2019 to 09/03/2019.
4. -1 level Workshop on **"Bench marking the Bench Practices in Teaching and Learning in HE"** sponsored by NAAC organized by IQAC, BHC at Tiruchirappalli during 14/02/2019 to 15/03/2019.
5. International level Conference on **"Water- From Pollution to Purification"** sponsored by NSerb, BRNS, KSCSTE organized by ACESSD,IUIC and School of Env. Sc. MG university, Kottayam at MG university, Kottayam, Kerala during 07/12/2018 to 10/12/2018.
6. -1 level Seminar on **"INSA sponsored Lecture"** sponsored by INSA organized by BHC at Tiruchirappalli during 18/08/2018 to 18/08/2018.
7. International level Conference on **"Fourth International conference on advanced Oxidation Processes(AOP-2016)"** sponsored by UGC, CSIR, SECAS organized by MG university at Bits Pilani Goa Campus during 16/12/2016 to 20/12/2016.
8. International level Conference on **"INTERNATIONAL CONFERENCE ON CHEMISTRY FOR RENEWABLE ENERGY (ICCRE 2016)"** sponsored by UGC DBT TNSCST organized by Dept. of chemistry, Gandhigram, Title : "Synthesis and characterization of Fe<sub>3</sub>O<sub>4</sub> nanoparticles and Ag-doped Fe<sub>3</sub>O<sub>4</sub>". at BHC Trichy during 25/02/2016 to 26/02/2016.
9. International level Conference on **"Third International conference on advanced Oxidation Processes (AOP-2014)"** sponsored by UGC, CSIR, SECAS organized by MG university at Munnar, Kerala, India during 05/10/2014 to 08/10/2014.
10. College level Workshop on **"Science Awareness Workshop"** sponsored by IGCAR and Dept of Chemistry organized by Dept. of Chemistry at BHC Trichy during 07/02/2014 to 08/02/2014.
11. International level Conference on **"International Conference on Chemistry in synergy with Biology ICMB-2014"** sponsored by UGC DBT TNSCST organized by Dept. of Chemistry at BHC Trichy during 10/01/2014 to 11/01/2014.
12. International level Conference on **"Second International conference on advanced Oxidation Processes (AOP-2012)"** sponsored by UGC, CSIR, SECAS organized by MG university at Kottayam, Kerala during 05/10/2012 to 08/10/2012.
13. National level Conference on **"National conference on Emerging Trends in Chemistry- NCETC-2012"** sponsored by UGC organized by Dept. of chemistry, Gandhigram, Title : "Synthesis and characterization of Fe<sub>3</sub>O<sub>4</sub> nanoparticles and Ag-doped Fe<sub>3</sub>O<sub>4</sub>". at BHC Trichy during 11/01/2012 to 01/01/1900.
14. National level Workshop on **"UGC Capacity Building of Women Managers in Higher Education workshop"** sponsored by UGC organized by Mother Teresa University at Kodaikanal during 14/03/2011 to 18/03/2011.
15. International level Conference on **"2nd International Chemical and Environmental Engineering Conference-2010(ICEEC-2010)"** sponsored by WARP organized by WARP at Kuala Lumpur, Malaysia during 21/12/2010 to 23/12/2010.
16. National level Conference on **"National conference on Recent Advances in Chemistry NCRAC-2009"** sponsored by UGC organized by Dept. of Chemistry at BHC Trichy during 18/09/2009 to 01/01/1900.

17. -1 level Conference on **"National Conference on Nanomaterials- (NMPCD-08)"** sponsored by UGC organized by BHC at Trichy during 14/03/2008 to 01/01/1900.
18. College level Summer School on **"UGC Sponsored Training on MATLAB"** sponsored by Dept. of Maths BHC and Cranes Software International Ltd. Bangalore organized by Dept. of maths at BHC Trichy during 22/02/2008 to 01/01/1900.
19. College level Summer School on **"Summer Training"** sponsored by IIT Kanpur organized by Dept. of Chemistry at BHC Trichy during 12/01/2008 to 27/01/2008.
20. State level Seminar on **"State level Seminar on Emerging Trends in Chemistry"** sponsored by UGC organized by Jamal Mohamed College at Jamal Mohamed College during 09/03/2006 to 01/01/1900.
21. International level Conference on **"International Conference on Life through Chemistry"** sponsored by UGC organized by Ponniyah Ramajayam College at Thanjavur during 25/02/2006 to 26/02/2006.
22. National level Conference on **"National seminar on applications of ET processes"** sponsored by UGC organized by Dept. of chemistry, Gandhigram, Title : "Synthesis and characterization of Fe<sub>3</sub>O<sub>4</sub> nanoparticles and Ag-doped Fe<sub>3</sub>O<sub>4</sub>". at Gandhigram during 05/01/2006 to 06/01/2006.
23. National level Conference on **"National Seminar on novel trends in synthesis, structure, dynamics and biologicval structures of co-ordination compounds. (NATSEM-CC)"** sponsored by UGC organized by Dept. of chemistry, Gandhigram, Title : "Synthesis and characterization of Fe<sub>3</sub>O<sub>4</sub> nanoparticles and Ag-doped Fe<sub>3</sub>O<sub>4</sub>". at Gandhigram during 03/03/2005 to 05/03/2005.
24. International level Conference on **"International Conference on Spectrophysics (INCONS 2005)"** sponsored by UGC organized by Pachaiyappa's College at Chennai during 09/02/2005 to 12/02/2005.
25. -1 level Conference on **"National Seminar on Recent Trends in Applied Chemistry"** sponsored by UGC organized by St. Josephs college at Trichy during 10/01/2005 to 11/01/2005.
26. National level Conference on **"National Symposium on Recent Trends in Heterocyclic Chemistry"** sponsored by UGC organized by Jamal Mohamed College at Trichy during 24/09/2004 to 25/09/2004.
27. National level Conference on **"Eleventh National Convention of Eletro-Chemists (NCE-11)"** sponsored by SAEST organized by SAEST and BHC at Bishop Heber College Trichy-17 during 26/12/2003 to 27/12/2003.
28. International level Conference on **"International Conference on Ionic Devices 2003(ICID-2003)"** sponsored by UGC organized by Anna University at Chennai during 28/11/2003 to 30/11/2003.
29. National level Seminar on **"Seminar on Current Trends in Chemistry – – 21, 22 July 2003"** sponsored by UGC organized by Madurai Kamaraj University at Madurai during 22/07/2003 to 23/07/2003.
30. International level Seminar on **"International conference on Sustainable Development and Management of Natural resources15-17 March 2003"** sponsored by UGC organized by Holy Cross College at Trichy during 15/03/2003 to 17/03/2003.
31. National level Seminar on **"National Seminar on Bio-active Polyphenols"** sponsored by UGC organized by Anjalai Ammal Mahalingam Engg College at Kovilveni, Thiruvarur during 10/03/2003 to 11/03/2003.
32. National level Seminar on **"2nd National Conference on Recent Advances in MaterialsScience (NCMS – 2002)"** sponsored by UGC organized by Nehru Memorial College at Puthanampatti during 11/12/2002 to 12/12/2002.
33. International level Seminar on **"International Seminar on Analytical Techniques in Monitoring the Environment (ISAME-2) Dec. 18-21, 2000"** sponsored by UGC organized by Sri venkateswara University,India at Tirupathi India during 18/12/2001 to 21/12/2000.



34. National level Seminar on **"Environ – 2K1 – National Seminar on Pollution"** sponsored by UGC organized by SRC at Trichy during 08/03/2001 to 09/03/2001.
35. National level Conference on **"National Conference on Recent Advances in Material Science"** sponsored by UGC organized by Nehru Memorial College at Puthanampatti during 29/09/2000 to 30/09/2000.
36. National level Seminar on **"National Seminar on Chemistry of Env. Pollution and its impact on health"** sponsored by UGC organized by SRC at Trichy during 26/07/2000 to 27/07/2000.
37. National level Workshop on **"Fourth National Symposium on Students Projects on Correlation Analysis"** sponsored by UGC organized by Bishop Heber College at Trichy during 12/03/2000 to 01/01/1900.
38. National level Workshop on **"National Seminar on Quality Assurance of Environmental analysis"** sponsored by UGC organized by Anna University at Chennai during 18/12/1999 to 01/01/1900.
39. Regional level Workshop on **"A Symposium on Ecofriendliness"** sponsored by UGC organized by REC at Trichy during 02/10/1999 to 03/10/1999.
40. State level Workshop on **"One day State Level Conference on Environmental Chemistry and Awareness"** sponsored by TNSCST organized by BHC at Trichy during 23/01/1999 to 01/01/1900.
41. National level Conference on **"Indian Council of Chemists – 17th conference"** sponsored by ICC organized by ICC at Madras University Chennai during 26/11/1998 to 28/11/1998.
42. International level Conference on **"International Conference on Emerging Trends In Catalysis ETC - 2020"** sponsored by RSC, VIT organized by SAS-VIT- at Vellore during 01/01/1900 to 01/01/1900.

#### Research Papers Presented

- 5

1. **"Investigation of Photocatalytic and Supercapacitor Performances of Silver Decorated ZnO/MWCNT Nanocomposites"** in the International conference on *International Conference on Chemical Sciences and Nanomaterials-ICCSN-2019* sponsored by RSC, Thermo Fisher, Radiant Research, organized by Department of chemistry, SAS, VIT at Vellore during 07/03/2019 to 09/03/2019.
2. **"CoO Anchored RGO as a Stable Visible Light Responsive Nanocomposite Photocatalyst for Dye Removal"** in the International conference on *International Conference on Chemical Sciences and Nanomaterials-ICCSN-2019* sponsored by RSC, Thermo Fisher, Radiant Research, organized by Department of chemistry, SAS, VIT at Vellore during 07/03/2019 to 09/03/2019.

1. **"Fluorescent Biomolecules capped ZnSe QDs and their photocatalytic Activity", , 18, 1-8, 2017.IF-"** published in Journal of Nanoscience and Nanotechnology, (PEER REVIEW) Vol. 1:18, Issue No. 7, July 2018 ISSN : ..
2. **"Photocatalytic Degradation of Rhodamine B Using Zinc Oxide Activated Charcoal Polyaniline Nanocomposite and Its Survival Assessment Using Aquatic Animal Model"** published in ACS Sustainable Chem. Eng., ACS Sustainable Chem. Eng., (PEER REVIEW) Vol. 6, Issue No. 1, January 2018 ISSN : ---.
3. **"Photocatalytic Degradation of Rhodamine B Using Zinc Oxide Activated Charcoal Polyaniline Nanocomposite and Its Survival Assessment Using Aquatic Animal Model"** published in ACS Sustainable Chem. Eng., ACS Sustainable Chem. Eng., (PEER REVIEW) Vol. 6, Issue No. 1, January 2018 ISSN : ---.
4. **"Photocatalytic degradation of Rhodamine B using cysteine capped ZnO/P(3HB-co-3HHx) fibre under UV and Visible light Irradiation"** published in Reaction Kinetics: Mechanisms and Catalysis (PEER REVIEW) Vol. 122, Issue No. 1, October 2017 ISSN : ---.
5. **"Visible light driven photodegradation of Rhodamine B using cysteine capped ZnO/GO nanocomposite as photocatalyst""** published in Journal of Materials Science: Materials in Electronics, (PEER REVIEW) Vol. 8, Springer., Issue No. 9, May 2017 ISSN : ---.
6. **"19. Well-organized Zinc oxide nanospheres with enhanced photocatalytic activity"** published in International Journal of Engineering and Applied Sciences (IJEAS) (PEER REVIEW) Vol. 3, Issue No. 12, December 2016 ISSN : 2394-3661.
7. **"Synthesis of L-Cysteine capped ZnSe QDs and their photocatalytic activity"** published in International Journal of Engineering and Applied Sciences (E-JOURNAL) Vol. 3, Issue No. 6, January 2016 ISSN : 2394-3661..
8. **"11. Photodegradation of methyl red using Ag-doped Fe<sub>3</sub>O<sub>4</sub> nano particles"** published in , International J. Chemical and Environmental Engineering (PEER REVIEW) Vol. 3, Issue No. 4, August 2012 ISSN : ---.
9. **"12. Solvent control on the electron transfer reaction between CoIII(en)<sub>2</sub>Br(L)<sub>2</sub><sup>+</sup> - fe(CN)<sub>6</sub><sup>4-</sup> (L=m arylamine) by regression relationships: the PXRD and electrochemical Investigations"** published in J. Physical Organic chem (PEER REVIEW) Vol. 24, Issue No. , January 2011 ISSN : ---.
10. **"Solvent control on the electron transfer reaction between CoIII(en)<sub>2</sub>Br(L)<sub>2</sub><sup>+</sup>-Fe(CN)<sub>6</sub><sup>4-</sup> (L= aryl amines) by regression relationships: the PXRD and electrochemical investigations."** published in J. Phys.Org. Chem. (PEER REVIEW) Vol. 24, Issue No. , January 2011 ISSN : ---.
11. **"Homogeneous solvation controlled photoreduction of Cobalt(III) complexes in aqueous 2-methyl-2-propanol solutions. Linear Solvation Energy Relationship and Cyclic voltammetric analysis" K. Anbalagan and I. Sharmila Lydia, Spectrochimica Acta Part A. Molecular Spectroscopy, 69, 2008, 964 – 970."** published in Spectrochimica Acta Part A. Molecular Spectroscopy (PEER REVIEW) Vol. 69, Issue No. , January 2008 ISSN : ---.

25. **"Utilisation of Agricultural Wastes for decolourisation of Congo Red"** published in International J. Chemical and Environmental Engineering (PEER REVIEW) Vol. 3, Issue No. 1, January 1900 ISSN : ---.
27. **"Biomolecule capped Semiconductor Quantum Dots for the photocatalytic activity"** published in International Journal of Applied Research (E-JOURNAL) Vol. 2, Issue No. 6, January 1900 ISSN : 2394-5869.

#### Conferences / Workshops / Seminars Organised

- 4

1. Local level Workshop Entitled **"Regional Level Workshop on Analytical Techniques And instrumentation for Chemists"** at BHC, Trichy, sponsored by DBTStar Scheme, during 07/12/2018 to 08/12/2018.
2. College level Workshop Entitled **"Analytical Techniques & Instrumentation for Chemists- ATIC 2018"** at Instrumentation Centre-BHC, sponsored by DBT-Star UGC-CE, during 07/12/2018 to 08/12/2018.
3. International level Conference Entitled **"Frontier Areas of Materials and their Applications-FAMA 2018"** at BHC, Trichy, sponsored by Department of Chemistry, during 09/01/2018 to 01/01/1900.
4. Local level Workshop Entitled **"Regional Level Workshop on Perspective of Chemical Research"** at BHC, Trichy, sponsored by DBTStar Scheme, during 06/12/2017 to 06/12/2017.

#### Awards Recieved

- 1

Award Name	Presented by	Year	Level	Instituted by / Place	amount
100 %attendance	BHC	01/03/2016	SELECT	BHC	500/-

#### RESEARCH PROJECTS

- 1

1. Minor project entitled **"Redox reactions of mixed ligand Co(III) complexes in mixed solvents"** (PRINCIPAL INVESTIGATOR), Sponsored by University Grants Commission (UGC) New Delhi, during 01/12/1999 to [Completed].

#### EXTENSION / PART V ACTIVITIES UNDERTAKEN

- 1

1. President, Chemistry Association for Chemistry students for the BHC during 15/06/2015 to 12/04/2016.

## PROFESSIONAL MEMBERSHIP - 3

- \* Life member of SECAS during 01/01/2014 - Till Date
- \* Life member of Ecotoxicology and Environ. Monitoring during 01/04/2000 - Till Date
- \* Life member of Ecotoxicology and Environ. Monitoring during 01/04/2000 - Till Date

## TRAINING PROGRAMME - 5

- # REGIONAL level UGC sponsored Training on **"MATLAB"** Sponsored by UGC, Organized by Dept of Maths and Cranes Software International Ltd at BHC during 22/02/2008 - 01/01/1900.
- # UNIVERSITY level REFRESHER on **"Curriculum development and evaluation technique"** Sponsored by UGC, Organized by Academic Staff College BARD at Jamal Mohamed college, Trichy during 01/11/2004 - 21/11/2004.
- # UNIVERSITY level REFRESHER on **"Refresher Course in Chemistry"** Sponsored by UGC, Organized by Academic Staff College BARD at Trichy during 03/11/2003 - 23/11/2003.
- # UNIVERSITY level ORIENTATION on **"Orientation Course"** Sponsored by UGC, Organized by Academic Staff College BARD at Trichy during 03/10/2001 - 01/11/2001.
- # NATIONAL level ORIENTATION on **"Orientation course for newly appointed women lecturers"** Sponsored by AIACHE, Organized by AIACHE at Bangalore during 15/05/1999 - 20/05/1999.

## RESOURCE PERSON - 2

1. National level Conference on **"Nano National s- Current Trends and Future Perspectivesummit"** at Holy Cross College, Trichy, 09/01/2019.
2. National level Workshop on **"Analytical Techniques for Research in Physics, Chemistry And Life Sciences"** at BHC, Trichy, 09/03/2018.

## JOURNAL REFEREE

1. **Member** of International Journal *"ACS publications"*(vol. ) at during 15/06/2018 - 2/28/2019.

## CONSULTANCY - 1

College HHY- Heber Hygiene Enterprises from January 2019 - Till Date.

## Additional Information

@ Travel Grant to College Teachers for presenting papers in International Conference -

Biodegradable PHBHHx fibres Reinforced with Capped ZnSe QDs for Photocatalysis in NANOSMAT in France 11-13th September 2017.

**Signature of Staff**  
**(I.SHARMILA LYDIA)**