

Dr.CATHERIN MEENA B

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Qualification

Degree	Branch	Institution / University	Year of Passing
Ph.D	Chemistry	National College, Trichy(Bharathidasan University)	2017
M.Phil., Chemistry	Chemistry	Sfr College, Sivakasi(Madurai Kamaraj University)	2009
M.Sc., Chemistry	Chemistry	Nmssvn College, Madurai(Madurai Kamaraj University)	2008
B.Sc Chemistry	Chemistry	S.B.K.College(Madurai Kamaraj University, Madurai)	2006

Ph.D. Details

Title of Thesis	Area of Specialization	Research Centre	Year of Award
Synthesis, Characterization and Applications of Protic Ionic Liquids as Designer Solvents for Organic, Nano, Electro and Biological Fields	Ionic Liquids	National College	June&2017
Research Supervisor			

Additional Qualification

Name of Course	Place of Study	Date	Duration
Certificate Course in Quality Control in Chemical Industry	S.B.K.College, Aruppukottai	2005	
Certificate Course in Office Automation	S.B.K.College, Aruppukottai	2004	1 year

Work Experience

Name of Institution	Address of Institution	Designation	From	To
Imayam College of Engineering	Imayam College of Engineering, Thuraiyur (Tk), Tiruchirappalli District	Assistant Professor	1.9.2009	23.12.2010
Cauver College For Woman	Annamalai Nagar, Trichy	Assistant Professor	13.1.2011	16.4.2017
Bishop Heber College	Vayalur Road, Trichy	Assistant Professor	13.6.2017	Till Date

Table of Contents

1.	Conferences / workshops / Seminars Attended	16
2.	Research Papers Presented	14
3.	Publication in Journals	14
4.	Publication in Books	0
5.	Books Published / Edited	0
6.	Conferences / Workshops / Seminars Organised	0
7.	Research Projects	0
8.	Resource Person	0
9.	Consultancy	0
10.	Awards Recieved	0
11.	Patent	0
12.	Extension Activities Undertaken	0
13.	Professional Membership	0
14.	M.Phil. / Ph.D. Produced	0 / 0

1. National level Seminar on **"National level Seminar on "Creative Writing of Research Proposals and Articles"(Virtual)"** sponsored by Department of Physics, Adikavi Nannaya University organized by Department of Physics, Adikavi Nannaya University at Rajamahendravaram during 04/06/2020 to 04/06/2020.
2. International level Seminar on **"International level Seminar on "Cyclic and Linear Sweep Voltammetry - Fundamentals & Applications" (Virtual)"** sponsored by Bhaktavatsalam Memorial College for Women organized by Bhaktavatsalam Memorial College for Women at Chennai during 31/05/2020 to 31/05/2020.
3. International level Seminar on **"International level Seminar on "NANO - THE TINY WARRIOR"- Engineering Nanomedicine and Drug Delivery System"(Virtual)"** sponsored by Department of Chemistry, Kongu Engineering College organized by Department of Chemistry, Kongu Engineering College at Perundurai during 30/05/2020 to 30/05/2020.
4. International level Seminar on **"International level Seminar on "Materials and Technology for sustainable Development"(Virtual)"** sponsored by PG& Research Department of Chemistry, St. Joseph's College organized by PG& Research Department of Chemistry, St. Joseph's College at Tiruchirappalli during 28/05/2020 to 29/05/2020.
5. College level Seminar on **"Webinar on Unlocking Online Evaluation"(Virtual)"** sponsored by Internal Quality Assurance Cell, Bishop Heber College organized by Internal Quality Assurance Cell, Bishop Heber College at Tiruchirappalli during 22/05/2020 to 22/05/2020.
6. -1 level Workshop on **" Workshop on "Webinar on Online Teaching:The New Norm"(Virtual)"** sponsored by organized by at during 21/05/2020 to 21/05/2020.
7. National level Conference on **"National level Conference on "Food Forensics: Investigating Food Crimes and Fraud"(Virtual)"** sponsored by Institute of Research and Development, Gujarat Forensics Sciences University organized by Institute of Research and Development, Gujarat Forensics Sciences University at Tiruchirappalli during 16/05/2020 to 17/05/2020.
8. International level Seminar on **"International level Seminar on "Chemistry Behind MRI Contrast Agents"(Virtual)"** sponsored by Department of Chemistry Cauvery College for Women organized by Department of Chemistry Cauvery College for Women at Tiruchirappalli during 04/05/2020 to 04/05/2020.
9. National level Workshop on **"National level Workshop on "Online workshop on Research Methodology"(Virtual)"** sponsored by Pandit Deendayal Petroleum University organized by Pandit Deendayal Petroleum University at Gandhi Nagar, Gujarat during 04/05/2020 to 04/05/2020.
10. University level Workshop on **"Emerging Trends in Chemical Synthesis(ETCS-2018)"** sponsored by School of Chemistry, Bharathidasan University, Tiruchirappalli organized by School of Chemistry, Bharathidasan University, Tiruchirappalli at School of Chemistry, Bharathidasan University, Tiruchirappalli during 28/03/2018 to 01/01/1900.
11. Regional level Workshop on **"Workshop on Instrumentation Chemistry"** sponsored by organized by at Sastra University, Thanjavur during 02/03/2016 to 02/03/2016.
12. State level Workshop on **"Modern Methods in Analytical Techniques"** sponsored by Department of Chemistry, St. Joseph s College, (Autonomous) Tiruchirappalli organized by Department of Chemistry, St. Joseph s College, (Autonomous) Tiruchirappalli at St. Joseph s College, (Autonomous) Tiruchirappalli during 31/01/2014 to 01/01/1900.
13. National level Workshop on **"National Workshop on "Green Techniques in Chemistry laboratory Experiments"** sponsored by Department of Chemistry, Holy Cross College, Tiruchirappalli organized by Department of Chemistry, Holy Cross College, Tiruchirappalli at Holy Cross College, (Autonomous) Tiruchirappalli during 01/09/2013 to 01/01/1900.

14. State level Workshop on **"State Level Workshop on "Micro Techniques"** sponsored by Department of Chemistry,,Cauvery College for Women, Tiruchirappalli organized by Department of Chemistry,,Cauvery College for Women, Tiruchirappalli at Cauvery College for Women, Tiruchirappalli during 09/04/2012 to 01/01/1900.
15. State level Workshop on **"Workshop on Empowering Women through Technical Education"** sponsored by organized by at Anna University of Technology, Tiruchirappalli during 12/03/2010 to 01/01/1900.
16. College level Workshop on **"Workshop on Pathway to Greatness"** sponsored by organized by at Standard Fireworks Rajarathinam College for Women,(Autonomous) Sivakasi during 12/12/2008 to 01/01/1900.



1. **"Environmentally Benign Synthesis of Ionic Liquid Functionalized BaFe₂O₄/rGO Nanocomposite For Electrochemical Applications"** in the International conference on *International Conference on Innovations in Chemical and Environmental Research* sponsored by , organized by Jamal Mohamed College at Tiruchirappalli during 25/05/2022 to 25/05/2022.
2. **"Ionic Liquid–Carbon based material Nanocomposites for Sensor Application-A Review"** in the Select conference on *Futuristic Aspects of Sensors and Biosensors* sponsored by , organized by PG& Research Department of Chemistry,Holy Cross College at Tiruchirappalli during 03/03/2022 to 04/03/2022.
3. **"Synthesis of LiNiFeO₄ Decorated Activated Carbon Nanocomposite for the Photocatalytic Discoloration Of Rhodamine - B"** in the International conference on *Futuristic Aspects of Sensors and Biosensors* sponsored by , organized by PG& Research Department of Chemistry,Holy Cross College at Tiruchirappalli during 03/03/2022 to 04/03/2022.
4. **"Ionic Liquid Assisted Synthesis and Antimicrobial activity of BaFe₂O₄ Nanoparticles"** in the International conference on *Futuristic Aspects of Sensors and Biosensors* sponsored by , organized by PG& Research Department of Chemistry,Holy Cross College at Tiruchirappalli during 03/03/2022 to 04/03/2022.
5. **"Applications of Ionic Liquids in Electrochemical and Biosensors-A Review"** in the International conference on *Futuristic Aspects of Sensors and Biosensors* sponsored by , organized by PG& Research Department of Chemistry,Holy Cross College at Tiruchirappalli during 03/03/2022 to 04/03/2022.
6. **"Synthesis and Characterization of Strontium Cobalt Oxide (SrCoO₂) Nanocomposite"** in the International conference on *International conference on Frontiers in Chemical Research* sponsored by , organized by PG& Research Department of Chemistry,Bishop Heber College at Tiruchirappalli during 03/03/2021 to 04/03/2021.
7. **"Green Synthesis, Physical and Electrochemical Properties of the Ionic liquid:1-Ethylimidazolium Formate"** in the International conference on *International conference on Chemical Research Innovation Today* sponsored by , organized by Department of Chemistry,Bishop Heber College,(Autonomous) Tiruchirappalli at Bishop Heber College,(Autonomous) Tiruchirappalli during 24/02/2019 to 24/02/2019.
8. **"Protic Ionic Liquid Assisted Synthesis, Magnetic and Photocatalytic Behaviour of Mn-Doped ZnO Nanoparticles"** in the International conference on *International conference on Chemical Research Innovation Today* sponsored by , organized by Department of Chemistry,Bishop Heber College,(Autonomous) Tiruchirappalli at Bishop Heber College,(Autonomous) Tiruchirappalli during 24/02/2019 to 24/02/2019.
9. **"Synthesis, Electrochemical and biological study of the ionic liquid: 2-methylimidazolium acetate"** in the National conference on *National Conference on Advances in Applied chemistry* sponsored by , organized by Department of Chemistry,St. Joseph s College, (Autonomous) Tiruchirappalli at St. Joseph s College, (Autonomous) Tiruchirappalli during 14/12/2018 to 14/12/2018.
10. **"Synthesis ,Characterization and anti microbial activity of the ionic liquid 1-butylimidazolium glycolate"** in the National conference on *National Conference on Recent Advances in Chemistry Research* sponsored by , organized by Department of Chemistry,St. Joseph s College, (Autonomous) Tiruchirappalli at St. Joseph s College, (Autonomous) Tiruchirappalli during 19/01/2017 to 19/01/2017.
11. **"Synthesis,Characterization and application of the green solvent Anilinum formate"** in the National conference on *National Conference on Recent Advances in Chemistry Research* sponsored by , organized by Department of Chemistry,St. Joseph s College, (Autonomous) Tiruchirappalli at St. Joseph s College, (Autonomous) Tiruchirappalli during 19/01/2017 to 19/01/2017.

12. **"Nickel electrodeposition from the ionic liquid 1-ethylimidazolium glycolate in and its Applications"** in the National conference on *National Conference on Recent Advances in Chemistry Research* sponsored by , organized by Department of Chemistry, St. Joseph s College, (Autonomous) Tiruchirappalli at St. Joseph s College, (Autonomous) Tiruchirappalli during 19/01/2017 to 19/01/2017.
13. **"Protic Ionic Liquid as Designer Green Solvent for Dissolution and Regeneration of biomass"** in the International conference on *International Conference on "Chemical And Environmental Research* sponsored by , organized by Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli at Jamal Mohamed College (Autonomous), Tiruchirappalli during 07/01/2017 to 07/01/2017.
14. **"Ionic liquid assisted Synthesis & Characterization of Selenium Nanoparticles"** in the National conference on *National Conference on Advanced Materials* sponsored by , organized by Department of Chemistry, St. Joseph s College, (Autonomous) Tiruchirappalli at St. Joseph s College, (Autonomous) Tiruchirappalli during 06/02/2015 to 06/02/2015.



1. **"Walnut shell derived mesoporous activated carbon for high performance electrical double layer capacitors"** published in Journal of Electroanalytical Chemistry (PEER REVIEW) Vol. 901, Issue No. , October 2021 ISSN : 1572-6657.
Impact factor , Scopus Index yes, h - index , Citation index
2. **"Effect of decorating Cobalt ferrite spinel structures on Pistachio vera shell-derived Activated Carbon on Energy storage Applications"** published in (PEER REVIEW) Vol. 359, Issue No. , August 2020 ISSN : ---.
3. **"Electrochemical Performance of L-Tryptophanium picrate as an efficient electrode material for Supercapacitor Application"** published in Phys. Chem. Chem. Phys., (PEER REVIEW) Vol. 21, Issue No. , January 2019 ISSN : ---.
4. **"Imidazolium Based Ionic Liquids' Structure and Optical Properties Influenced by Semiconductor Metal Oxide Thin Films"** published in Journal of Molecular Liquids (PEER REVIEW) Vol. , Issue No. , October 2017 ISSN : 0167-7322.
5. **"Synthesis, structural, optical properties and antibacterial studies of lanthanum doped zinc oxide nanoparticles"** published in Journal of Alloys and Compounds (PEER REVIEW) Vol. 723, Issue No. , July 2017 ISSN : ---.
6. **"Protic ionic liquid assisted synthesis and characterization of ferromagnetic cobalt oxide nanocatalyst"** published in Journal of Inorganic and Organometallic Polymers and Materials (PEER REVIEW) Vol. 27, Issue No. , December 2016 ISSN : 1574-1443.
7. **"Protic Ionic Liquid Assisted Synthesis, Structural, Optical and Magnetic Properties of Mn-Doped ZnO Nanoparticles"** published in Advanced Science, Engineering and Medicine (PEER REVIEW) Vol. 8, Issue No. , August 2016 ISSN : 2164-6627.
8. **"Cellulose dissolution and regeneration using various imidazolium based protic ionic liquids"** published in Journal of Molecular Liquids (PEER REVIEW) Vol. 238, Issue No. , May 2016 ISSN : 0167-7322.
9. **"Electrodeposition of Nickel on Glassy Carbon Electrode from Protic Ionic Liquids with Imidazolium Cation"** published in Journal of Inorganic and Organometallic Polymers and Materials (PEER REVIEW) Vol. 26, Issue No. , January 2016 ISSN : 1574-1443.
10. **"Size-controlled synthesis of and chalcogenide nanoparticles using protic ionic liquids with imidazolium cation"** published in Korean Journal of Chemical Engineering (PEER REVIEW) Vol. 33, Issue No. , January 2016 ISSN : 0256-1115.
11. **"Protic Ionic Liquids Assisted Synthesis and Characterization of Sulfur Nanoparticles and CdS and ZnS Nanomaterials"** published in Chemical Science Transaction (PEER REVIEW) Vol. 4, Issue No. , March 2015 ISSN : ---.

12. **"Friedel-Craft's Benzylation and Benzoylation Using Imidazolium Protic Ionic Liquids"** published in Research Journal of Chemical and Environmental Sciences (PEER REVIEW) Vol. 2, Issue No. , October 2014 ISSN : ---.
13. **"Rare earth element (REE) lanthanum doped zinc oxide (La: ZnO) nanomaterials: synthesis structural optical and antibacterial studies"** published in Journal of Alloys and Compounds (PEER REVIEW) Vol. 723, Issue No. , January 1900 ISSN : 0925-8388.
Impact factor , Scopus Index , h - index , Citation index 8.9
14. **"Antimicrobial Activity of Imidazolium Based Protic Ionic Liquids"** published in (SELECT) Vol. , Issue No. , January 1900 ISSN : ---.



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