


RESUME

1		Name : Dr. A. JAFAR AHAMED												
2	Date of Birth	01.05.1970												
3	Designation	Associate Professor of Chemistry												
4	Address for Communication	Office : Post Graduate and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Affiliated to Bharathidasan University, Tiruchirappalli – 20, India E-mail : agjafar@yahoo.co.in / agjafar@gmail.com / ja@jmc.edu												
	Residence Plot No. 144, R.V.S. Nagar Tiruchirappalli–23, India Cell:+91-90035-76896													
5	Educational Qualifications	M.Sc. (Chem.), Bharathidasan University, Trichy, 1992 B.Ed. (Chem.), Annamalai University, 1993 Ph.D. (Chem.) Bharathidasan University, Trichy, 1998												
6	Teaching Experience	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="border-bottom: 1px solid black; width: 33%;">UG</th> <th style="border-bottom: 1px solid black; width: 33%;">PG</th> <th style="border-bottom: 1px solid black; width: 33%;">M.Phil.</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">26 years</td> <td style="text-align: center;">26 years</td> <td style="text-align: center;">19 years</td> </tr> </tbody> </table>	UG	PG	M.Phil.	26 years	26 years	19 years						
UG	PG	M.Phil.												
26 years	26 years	19 years												
	Research Experience	31 years From 1993												
7	Areas of Specialization	Physical Chemistry, Environmental Chemistry, Analytical, Synthetic Organic Chemistry and Nanomaterials												
8	Languages Known	Tamil, Urdu, Hindi & English												
9	Subjects Teaching	<i>Undergraduate</i> :Inorganic, Organic, Physical, Agricultural, Environmental Chemistry, Food <i>Postgraduate</i> :Organic, Physical, Analytical, Environmental Chemistry <i>M.Phil.</i> : Research Methodology, Data Analysis, Retro synthesis												
10	Research Supervision	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;"></th> <th style="width: 33%;">Completed</th> <th style="width: 33%;">Submitted</th> <th style="width: 33%;">Pursuing</th> </tr> </thead> <tbody> <tr> <td>M.Phil.</td> <td style="text-align: center;">48</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Ph.D.</td> <td style="text-align: center;">20</td> <td style="text-align: center;">--</td> <td style="text-align: center;">02</td> </tr> </tbody> </table>		Completed	Submitted	Pursuing	M.Phil.	48	--	--	Ph.D.	20	--	02
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M.Phil.	48	--	--											
Ph.D.	20	--	02											

11. Projects:

Major Research Project

Agency	Title	Duration	Amount
UGC, New Delhi	Assessment and control of Ground water pollution on the bank of Amaravathi River, Karur District, Tamilnadu	3 years, 2012-2015	Rs. 9,60,800/-

12. Patents and Designs

* Title : FACILE SYNTHESIS OF NiSe:Zn NANOPARTICLES BY METHOD VARIATION AND THEIR MORPHOLOGICAL STUDIES

Authors : A. Jafar Ahamed and M. Sasthaa Begum
Agency : Intellectual Property, India, Ministry of Commerce And Industry
Application number : 1192/CHE/2015
Date of Filing : 11-03-2015
Authentication : 09-09-2015
Granted : **31-05-2021**
Patent Number : 368046

* Title : A SYSTEM FOR DELIVERY OF NANOCARRIERS FOR THE TREATMENT OF CANCERS

Authours : Rajakumar, A. Jafar Ahamed, S.R Bavaji, Anurag Shrivastava, Divya Midhun Chakkravarthy, Surya Pratap Singh and Midhun Chakkaravarthy
Design Number : 6326352
Registration : 16-11-2023
Granted : **29-01-2024**

13. **Book / Book Chapter**

1. **Title of the book : Crystallizing Ideas – The Role of Chemistry-Chapter-12**, Physicochemical and Microbiological Studies of Soils in Amaravathi River Bed Area, Karur District, TamilNadu, India, PP. 181-200, Feb-2016, Springer International Publishing, Switzerland. Editors : Ponnadurai Ramasami, Sabina Jhaumeer Laulloo, Minu Gupta Bhowon and Henri LI Kam Wah, ISBN 978-3-319- 31758-8 (Print) ISBN 978-3-319-31759-5 (eBook), DOI 10.1007/978-3-319-31759-5.
2. **Title of the Book : Groundwater Resources Development and Planning in the Semi-Arid Region-Chapter-14**, Hydrogeochemistry of Groundwater Quality in Amaravathi River Basin of Karur District (Tamilnadu) Using Graphical and Multivariate Statistical Methods, Jafar Ahamed A and Loganathan K, 269-292, May-2021, Springer International Publishing, Switzerland. Editors : Chaitanya B. Pande, Kanak N. Moharir, ISBN 978-3-030- 68123-4 (Print) ISBN 978-3-030-68124-1, (eBook) <https://doi.org/10.1007/978-3-030-68124-1>.
3. **Physical Chemistry Lab Manual**, on July 2022, Jazym Publications, Trichy, ISBN No. 978-93-91563 -10-3.
4. **Essentials of Organic Chemistry**, on December 2022, with the support of Book Pen Publishing & Notion Press, India, Malaysia & Singapore, ISBN: 979888834824.
5. **Recent Advances in Bioorganic Chemistry**, September 2023, Alpha International Publication, 3/725/2, Kammangudi, Adichapuram, Thiruvarur District, Tamilnadu-614 717, ISBN: 978-93-5762-083-3.

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- 3) Adsorption Dynamics – Determination of Optimum Conditions for the Removal of Lead(II) Ions, N. Balasubramanian and A. Jafar Ahamed, *J. Natcon.*, **9 (1)**, 17-25, 1997.
- 4) Adsorption Dynamics – Removal of Lead by Lignite-Langmuir Model, N. Balasubramanian and A. Jafar Ahamed, *Ind. J. Environ. Prot.*, **17 (8)**, 601-604, 1997.
- 5) Copper Removal by *Azadiracta indica*, N. Balasubramanian, G. Edwin Chandrasekaran and A. Jafar Ahamed, *J. Ecotoxicol. Environ. Monit.*, **8 (1)**, 59-64, 1998.
- 6) Adsorption Dynamics – Determination of Activation Parameters for the Adsorption of Lead(II) onto Lignite Material, N. Balasubramanian and A. Jafar Ahamed, *Poll. Res.*, **17 (4)**, 341-345, 1998.
- 7) Chemical Analysis of Indigenous Drug: Sufoof-e-Mohazzil, N. Balasubramanian, D. Saravanan and A. Jafar Ahamed, *Asian J. Chem.*, **11 (2)**, 647-649, 1999.
- 8) Characterization and Exploration of Lignite for the Adsorption of Lead(II) Ions, A. Jafar Ahamed and N. Balasubramanian, *Asian J. Chem.*, **11 (3)**, 1087-1088, 1999.
- 9) Adsorption Dynamics – Temperature Effect on Adsorption of Lead(II) Species onto Lignite Surface, N. Balasubramanian and A. Jafar Ahamed, *J. Indian Chem. Soc.*, **77**, 11-13, 2000 (Jan).
- 10) Impact of Lead on *Mastacembelus armatus* (Cuv. & Val.), N. Balasubramanian, G. Edwin Chandrasekaran and A. Jafar Ahamed, *Ecol. Env. & Cons.*, **7 (3)**, 313-314, 2001.
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15. Participation and presentation in Conferences/ Seminars/ Symposia

- 1) Heavy Metal Pollution and their Removal Techniques in Science and Society Conference, conducted by National Science Movement and Bharathidasan University, held at Bishop Heber College, Trichy, October 4-5, 1991.
- 2) Study on the Treatment of the Adsorbent, Hair on Synthetic Chromium Effluents in the Conference on Pollution Prevention – The Technology for Future, conducted by U.G.C., New Delhi, held at Bishop Heber College, Trichy, May 19, 1994.
- 3) Variation of Water Parameters of Well Water due to Treatment of *Embllica officinalis*, G. and *Cicca disticca* L. in the Conference on Pollution Prevention – The Technology for Future, conducted by U.G.C., New Delhi, held at Bishop Heber College, Trichy, May 19, 1994.
- 4) Removal of Cadmium by Adsorption Technique in the UGC – DRS National Seminar on New Trends in Dynamic and Structural Studies in Inorganic and Physical Chemistry held at Madurai Kamaraj University, Madurai, March 1-3, 1995.
- 5) Treatment Technology of Synthetic Effluents Applying Low-cost Adsorbents in the above said Seminar, March 1-3, 1995.
- 6) Application of Adsorption Dynamics for the Treatment of Industrial and Synthetic Effluents in the Sixty Fifth Annual Session of the National Academy of Sciences, India, held at S.V. University, Tirupathi, November 5, 1995.
- 7) Application of Adsorption Dynamics in Eliminating Metal Pollutants in the National Symposium on Students' Projects on Correlation Analysis in Chemistry, organized by IGCAIC – Indian Chapter, held at Annamalai University, Annamalai Nagar, January 24, 1996.
- 8) Adsorption Dynamics, in the above said Seminar, January 24, 1996.
- 9) Temperature effect of Adsorption Potential in the National Conference Organized by National Academy of Sciences, India, held at Aurangabad, October 31, 1996.
- 10) Adsorption of Lead(II) on Lignite, National Symposium on Students' Projects on Correlation Analysis in Chemistry, organized by IGCAIC – Indian Chapter, held at Bishop Heber College, Trichy, August 30, 1997.
- 11) Adsorption of Copper (II) on Sawdust, in the National Seminar on Water Quality Surveillance and Sustainable Issues, conducted by Department of Chemistry, Gandhigram Rural Institute, Deemed University, Gandhigram – 624 302, December 11, 1997.
- 12) Adsorption Dynamics – Temperature Effect, in the National Conference on Current Trends in Chemistry, held at Annamalai University, Annamalai Nagar, March 20 – 23, 1998.
- 13) Mechanism of the Removal of Lead(II) by Lignite in the Third National Symposium on Students' projects on Correlation Analysis in Chemistry, organized by IGCAIC – Indian Chapter, held at University of Mysore, Mysore, September 21 – 22, 1998.
- 14) Effect of Temperature on Langmuir Constants – Lead Lignite System in the Seventeenth Conference of Indian Council of Chemists, held at University of Madras, Chennai, November 26 – 28, 1998.

- 15) Temperature and pH Effects on the Adsorption of Lead(II) onto Lignite Surface in the Eighth International Conference on Correlation Analysis in Chemistry, held at CLRI, Chennai, January 10 – 14, 1999.
- 16) Removal of Copper – Column Adsorption Studies in the State Level Conference on Environmental Chemistry and Awareness, held at Bishop Heber College, Trichy, January 23, 1999.
- 17) Removal of Lead by Lignite – Mechanism, in the International conference on Chemistry and 36th Annual Convention of Chemists, held at Indian Chemical Society, Calcutta, December 11 – 16, 1999.
- 18) Impact of Lead(II) on the Leguminous Plant Cowpea, in the State Level Conference on Water Management” Resources, Pollution and Effect on Health, held at St. John’s College, Palayamkottai, August 8 – 9, 2001.
- 19) Bioconcentration of Heavy Metals in *Pagasius pagasius* (Hamilton, 1982), in the National Seminar on Emerging Trends in Science and Technology, ETSAT – 2004 at Karunya Institute of Technology, Coimbatore, January 30 – 31, 2004.
- 20) Participated in the Workshop in Recent Trends in Pharmaceutical Chemistry at Periyar Maniammai College of Pharmaceutical Sciences, Trichy, February 27, 2004.
- 21) Participated in the Seminar on Herbs in Treatment at School of Life Sciences, Ponniah Ramajayam College, Tanjore, July 24, 2004.
- 22) Synthesis and Characterization of Substituted Benzimidazoles and Benzoxazoles” in the National Symposium on Recent Trends in Heterocyclic Chemistry, at Jamal Mohamed College, Trichy, September 24 - 25, 2004.
- 23) Biological Activity of 2-β(p-substituted aniline ethyl) Benzimidazole Derivatives in the National Symposium on Recent Trends in Heterocyclic Chemistry, at Jamal Mohamed College, Trichy, September 24 - 25, 2004.
- 24) Synthesis and Characterization of Biologically Active Nitrogen Containing Heterocyclic Compounds in the National Symposium on Recent Trends in Heterocyclic Chemistry, at Jamal Mohamed College, Trichy, September 24 - 25, 2004.
- 25) S. Sodium & S. Potassium Levels in CKD Patients in Summer and Winter in the 35th Annual Conference of Indian Society of Nephrology, Varanasi, Nov-2004
- 26) Removal of Chromium(VI) Using Sheep Hair, in the National Seminar on Recent Trends in Applied Chemistry at St. Joseph’s College, Trichy – 2, Jan 10 & 11, 2005.
- 27) Participated in the State level UGC Seminar on The New Vistas in Spectroscopic Techniques, Islamiah College, Vaniyambadi – 52, August 20 & 21, 2005.
- 28) Participated in the International Conference on “Life Through Chemistry”, Ponnaiah Ramajayam College, Thanjavur, February 25 & 26, 2006.
- 29) TANSCHÉ and UGC Sponsored Three Day Workshop on Curriculum Development and Evaluation, organized by UGC – Academic Staff College, Bharathidasan University at JMC (Autonomous), March 2 – 4, 2006.

- 30) Synthesis, Characterization and Biological Activities of Complexes of Cobalt(II) and Copper(II) Using Amine as Ligands, in the UGC Sponsored State Level Seminar on Emerging Trends in Chemistry at Jamal Mohamed College, Trichy – 20, March 9th, 2006.
- 31) Participated in the Sixth National Convention of Chemistry Teachers (NCCT-2006), CMS College, Kottayam, October, 28, 2006.
- 32) Preparation and Characterization of Teak Leaves Activated Carbon: A Kinetic Study on the Adsorption of Pb^{II} Ions on it, in the Silver Jubilee Conference of Indian Council of Chemists at Birla College, (University of Mumbai), Kalyan, December 27-29, 2006.
- 33) Participated in the Continuing Traditional Medical Education (AYUSH) conducted by Niamath Science Academy, Chennai, January 7, 2007.
- 34) Participated in the Seminar on Advanced Topics in Chemistry at Jamal Mohamed College, Trichy – 20, March 13-14, 2007.
- 35) Synthesis, Characterization and Antimicrobial Study of 4-Oxo-N-phenylquinoline-1(4H)-carboxamide and 4-Oxo-N2-phenylquinoline-1(4H)-carboxamide, in the Three Day International Conference on Frontiers in Chemical Research (ICFCR-2008) AT Department of Chemistry, Mangalore University, Mangalore – 99, Dec 29-31, 2008.
- 36) Participated in the AICTE sponsored International Seminar on Recent Advances in LC/MS, at KMCH College of Pharmacy, Coimbatore-48, Jan 28, 2009.
- 37) Participated in the TNSCHE Sponsored State Level Seminar on Recent Advances in Chemistry, Periyar EVR College, Trichy – 23, March 16-17, 2009.
- 38) Synthesis, Characterization and Evaluation of Quinazoline-4one Derivatives, in the 13th ISCB International Conference on Interplay of Chemical and Biological Sciences: Impact on Health and Environment, Sponsored by Indian Society of Chemists and Biologists, CDRI, Lucknow at Department of Chemistry, University of Delhi, Feb 26 – March 01, 2009.
- 39) Participated in the Academies sponsored Two Day Lecture Workshop on Frontiers in Chemistry, National College, Trichy – 1, March 13-14, 2009.
- 40) Presented paper entitled Mechanistic Studies on the Adsorption of Copper Ions by Low Cost Activated Carbon, in the **4th International Congress of Chemistry and Environment**, Organized by The Research Journal of Chemistry and Environment at Ubon Ratchathani University, Ubon Ratchathani, **Thailand**, 21– 23, January 2010.
- 41) Member, Organizing Committee of the State Level Seminar on Frontier Studies in Chemistry at Jamal Mohamed College, Tiruchirappalli 620 020, 09-10, February 2010.
- 42) Participated in the Workshop on Spectroscopic and Electrochemical Methods in Chemistry at National College, Tiruchirappalli 620 001, 16 – 18, February 2010.
- 43) Participated in the Seminar on Creating Competitiveness to Excel in Higher Education-A TQM Approach, Organized by IQA Cell, Jamal Mohamed College, Tiruchirappalli 620 020, 8, December 2010.

- 44) Presented paper entitled A Comparative Study on the Adsorption Mechanism of Cu(II) and Ni(II) Ions onto a Low Cost Adsorbent, in the **5th International Congress of Chemistry and Environment**, Organized by The Research Journal of Chemistry and Environment at Port Dickson, **Malaysia**, 27– 29, May 2011.
- 45) Synthesis and spectral characterization of N-(p-toluenesulphonyl)-2,6-diphenyl-3-methylpiperidine-4-oxime, in the International Conference on Emerging Green Technologies (ICEGT-2011), Periyar Maniammai University, Vallam, Thanjavur, 27-30, July 2011.
- 46) Yb(OTf)₃ catalyzed new cascade reaction: a facile assembly of fused quinazolinones as TNF- α inhibitors in the 30th annual conference of Indian Council of Chemists, Osmania University, Hyderabad, 28-30, December 2011.
- 47) Evaluation of Physico-chemical Parameters of Ground and Surface Waters of Amaravathi River Bed, Karur, State Level Seminar on New Vistas in Chemistry (NVC-2012), Jamal Mohamed College, 4-5, January 2012.
- 48) Synthesis and characterization of Bimetallic Nanoparticles, State Level Seminar on New Vistas in Chemistry (NVC-2012), Jamal Mohamed College, 4-5, January 2012.
- 49) Preparation and characterization of Fe-Co-Ni fine particles by polyol process, State Level Seminar on New Vistas in Chemistry, (NVC-2012), Bishop Heber College, Trichy, 11, January 2012.
- 50) Presented paper entitled Evaluation of equilibrium, kinetic and thermodynamic parameters for the adsorption of malachite green dye on to *Azadirachta indica* carbon, **International Conference on Chemical Sciences**, Organized by Institute of Chemistry, Ceylon, at **Colombo, Srilanka**, 20-22, June 2012.
- 51) Correlation study of water quality in Amaravathi river basin, Proceedings of the National Conference on New Vistas and Challenges in Chemistry (NEVACC-2013), Organized by Department of Chemistry, Sathyabama University in Association with DST-SERB, New Delhi at Chennai-600 119, 23-25, January 2013.
- 52) Water quality evaluation by index in Pugalur region, Proceedings of the National Conference on New Vistas and Challenges in Chemistry (NEVACC-2013), Organized by Department of Chemistry, Sathyabama University in Association with DST-SERB, New Delhi at Chennai-600 119, 23-25, January 2013.
- 53) A correlation study of physico-chemical characteristics of groundwater in Alathur block – Perambalur district, Tamilnadu, South India, Proceedings of the National Conference on Current Trend in Chemistry Research (NCTCR-2013), Jamal Mohamed College, 27-28, February 2013.
- 54) Investigation of hydrochemical characteristics of groundwater in some parts of Karur region, Proceedings of the National Conference on Current Trend in Chemistry Research (NCTCR-2013), Jamal Mohamed College, 27-28, February 2013.
- 55) Preparation and characterization of Co-Ni nanoparticles by polyol method, Proceedings of the National Conference on Current Trend in Chemistry Research (NCTCR-2013), Jamal Mohamed College, 27-28, February 2013.

- 56) Assessment of groundwater quality in Pugalur region of Karur district (Tamilnadu) using hydro chemical and statistical analysis method, Proceedings of the International National Conference integrated water, waste water & isotope hydrology (IC-WWISH-2013), organized by Civil Engineering department, UVCE, Bangalore University, Bangalore, 25-27, July – 2013.
- 57) Hydrochemical framework and water quality assessment of groundwater in Amaravathi river basin, Karur district, Tamilnadu, India, advances in water resources development and management (AWRDM-2013), CAS, Department of Geology, Punjab University, Chandigarh, 23-27, October 2013.
- 58) Rhodamine B dye adsorption – kinetic, mechanistic and thermodynamic studies, National Seminar on Chemistry Education and Research & National Convention of Chemistry Teachers (NCCT-13), Department of Chemistry, Annamalai University in association with Association of Chemistry Teachers (ACT), Annamalai Nagar, 08-10, November 2013.
- 59) Adsorption kinetics and thermodynamics of ferrous ions onto Azadirachta indica based acid activated carbon, 32nd Annual Conference of Indian Council of Chemists, Department of Studies in Chemistry, Karnataka University, Dharwad-580 003, 28-30, December 2013.
- 60) Studies on adsorption mechanism of malachite green dye onto acid activated carbon, 32nd Annual Conference of Indian Council of Chemists, Department of Studies in Chemistry, Karnataka University, Dharwad-580 003, 28-30, December 2013.
- 61) Determination of trace heavy metal pollutants in ground water of Amaravathi River Basin, Karur district, Tamilnadu, DST & UGC sponsored International Conference on Chemistry in Synergy with Materials and Biology (ICMB-2014), PG and Research Department of Chemistry, Bishop Heber College, Tiruchirappalli-620 017, 10-11 January 2014.
- 62) Reduced Graphene Oxide – Synthesis, Characterization and Ultrasonication, DST & UGC sponsored International Conference on Chemistry in Synergy with Materials and Biology (ICMB-2014), PG and Research Department of Chemistry, Bishop Heber College, Tiruchirappalli-620 017, 10-11 January 2014.
- 63) Suitability of Groundwater for Domestic Use – A Case Study On Alathur Block, Perambalur District, Tamilnadu, International Symposium on Integrated Water Resources Management (IWRM 2014), organized by Centre for Water Resources Development and Management (CWRDM), Kozhikode, Kerala, 19-21 February 2014.
- 64) Investigation of the viscoelastic properties and spinnability of blended dopes of polyacrylonitrile copolymer and wheat straw lignin as carbon feed stock, International Conference On Chemical and Environmental Research (ICCER-2014), organized by Jamal Mohamed College (Autonomous), 11 & 12 March 2014.
- 65) Water quality issues in Amaravathi River basin of Karur District: Correlation with heavy metals, International Conference on Chemical and Environmental Research (ICCER-2014), organized by Jamal Mohamed College (Autonomous), 11 & 12 March 2014.

- 66) Effects of physico-chemical and microbiological characteristics of soil in Alathur block, Perambalur District, Tamilnadu, International Conference On Chemical and Environmental Research (ICCER-2014), organized by Jamal Mohamed College (Autonomous), 11 & 12 March 2014.
- 67) Graphene decorated with CoO nanocrystals with improved electrochemical properties prepared by facile hydrothermal route, International Conference on Chemical and Environmental Research (ICCER-2014), organized by Jamal Mohamed College (Autonomous), 11 & 12 March 2014.
- 68) Simple chemical route for synthesis of CeO₂ nanoparticles and their characterization, International Conference on Chemical and Environmental Research (ICCER-2014), organized by Jamal Mohamed College (Autonomous), 11 & 12 March 2014.
- 69) Synthesis and characterization of Co-Ni, Fe-Co and Fe-Ni alloy nanoparticles prepared by microwave assisted polyol method, International Conference on Chemical and Environmental Research (ICCER-2014), organized by Jamal Mohamed College (Autonomous), 11 & 12 March 2014.
- 70) Groundwater quality assessment for irrigation purpose in Chinnadharapuram region of Karur District, Tamilnadu, India, International Conference on Chemical and Environmental Research (ICCER-2014), organized by Jamal Mohamed College (Autonomous), 11 & 12 March 2014.
- 71) Evaluation of underground water for irrigation use based on salinity and sodium hazards, National conference on recent advances in water and wastewater treatment (RAWWT – 2014), Organized by Department of chemistry, The Gandhigram Rural Institute, Deemed University, Gandhigram, 21-22, March 2014.
- 72) Presented paper entitled Physico-Chemical and Microbiological Studies of Soils in Amaravathi River Bed Area, Karur District, Tamil Nadu, India, **International Conference on Pure and Applied Chemistry (ICPAC-2014)**, Organized by **Department of Chemistry, University of Mauritius, Réduit, Mauritius**, 23-27, June 2014.
- 73) Identification of major factors Influencing the geochemistry of groundwater in Amaravathi River Basin of Karur District (Tamil Nadu) using graphical and multivariate statistical methods, 33rd Annual Conference of Indian Council of Chemists, Organized by Department of Applied Chemistry, Indian School of Mines, Dhanbad, 15-17, December 2014.
- 74) Suitability analysis of groundwater in Amaravathi river basin of Karur district, Tamilnadu, International conference on “Energy, Water and Environmental Science & Technology (ICEWEST-2015)”, Organized by PG and Research Department of Chemistry, Presidency College (Autonomous), Chennai, 5-6, February 2015.
- 75) Synthesis and characterization of cupric oxide nanoparticles, Two-day national conference on “Current Scenario in Material Chemistry (CSIMC 2015)” Organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli, 9-10, February 2015.

- 76) Synthesis and characterization of ZnSe nanoparticles by co-precipitation method, Two-day National conference on Current Scenario in Material Chemistry (CSIMC 2015) Organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli, 9-10, February 2015.
- 77) Geochemical evaluation and characterization of groundwater quality in Amaravathi river basin of Karur district, Tamil Nadu, Two-day national conference on “Current Scenario in Material Chemistry (CSIMC 2015)” Organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli, 9-10, February 2015.
- 78) Surfactant free synthesis of ZnO nanoparticles and their characterization studies, International Conference on Chemical and Environmental Research (ICCER-2015), organized by Jamal Mohamed College (Autonomous), 17th December 2015.
- 79) Structural and optical characterization of iron doped NiSe nanoparticles and their characterization studies, International Conference on Chemical and Environmental Research (ICCER-2015), organized by Jamal Mohamed College (Autonomous), 17th December 2015.
- 80) A novel one-pot facile synthesis of Triazoles under metal free conditions, International Conference on Chemical and Environmental Research (ICCER-2015), organized by Jamal Mohamed College (Autonomous), 17th December 2015.
- 81) Classification of groundwater based on water quality assessment using component analysis in Amaravathi river basin of Karur District, South India, International Conference on Chemical and Environmental Research (ICCER-2015), organized by Jamal Mohamed College (Autonomous), 17th December 2015.
- 82) Wet chemical synthesis and characterization of NiO nanoparticles, International Conference on Chemical and Environmental Research (ICCER-2015), organized by Jamal Mohamed College (Autonomous), 17th December 2015.
- 83) Hydrothermal synthesis of Silver nanoparticles using aqueous extract of *Azadirachta Indica Juss* Leaves, International Conference on Chemical and Environmental Research (ICCER-2015), organized by Jamal Mohamed College (Autonomous), 17th December 2015.
- 84) Trace element concentration in groundwater in Alathur block, Perambalur, Tamil Nadu, India, International Conference on Chemical and Environmental Research (ICCER-2015), organized by Jamal Mohamed College (Autonomous), 17th December 2015.
- 85) Hydrothermal synthesis of Ag nanoparticles using aqueous extract of Bauhinia Tomentosa leaves, International conference on Recent Trends in Analytical Chemistry (ICORTAC-2015), Organized by Department of Analytical Chemistry, University of Madras, 28-30th December, 2015.

- 86) Synthesis and Structural, Optical characterization of TiO₂ Nanoparticles by Solgel Method and Photocatalytic Applications, UGC/DST Sponsored International Conference on ‘Chemistry for Renewable Energy’ (ICCRE-2016), organized by PG and Research Department of Chemistry, Bishop Heber College (Autonomous), Tiruchirappalli-620 017, 25-26 February 2016.
- 87) Preparation, characterization and Antibacterial properties of Mg doped ZnO Nanoparticles, National Seminar on “Frontiers in Biosciences” (FIB-2016), organized by PG & Research Department of Microbiology & Biotechnology, Jamal Mohamed College (Autonomous), 5th March 2016.
- 88) Synthesis and characterization of Mg doped NiO nanoparticles and evaluate their antibacterial properties, National Seminar on “Frontiers in Biosciences” (FIB-2016), organized by PG & Research Department of Microbiology & Biotechnology, Jamal Mohamed College (Autonomous), 5th March 2016.
- 89) Synthesis, spectral and thermal degradation studies of novel terpolymer ligand and its transition metal complexes, First Symposium on “Advanced functional materials” (FUNMAT – 2016: Energy conversion and storage), organized by CSIR- Central Electrochemical Research Institute, Karaikudi, Tamil Nadu, India, May 26-28, 2016.
- 90) Synthesis, structural and antibacterial properties of Mg doped ZnO nanoparticles by wet chemical method, First Symposium on “Advanced functional materials” (FUNMAT – 2016: Energy conversion and storage), organized by CSIR- Central Electrochemical Research Institute, Karaikudi, Tamil Nadu, India, May 26-28, 2016.
- 91) Identification of bioactive compounds from the methanol leaf extract of *gymnema sylvestre* using GC-MS analysis, International Conference on Chemical and Environmental Research (ICCER – 2017), Organized by Post Graduate and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli – 620 020, Tamil Nadu, India, January 7, 2017.
- 92) Seasonal monitoring of surface and groundwater quality of Amaravathi river basin, Karur district, Tamil Nadu, International Conference on Chemical and Environmental Research (ICCER – 2017), Organized by Post Graduate and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli – 620 020, Tamil Nadu, India, January 7, 2017.
- 93) The structural, morphological and optical study of pure and W-doped TiO₂ nano particles and their antimicrobial activities, International Conference on Chemical and Environmental Research (ICCER – 2017), Organized by Post Graduate and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli – 620 020, Tamil Nadu, India, January 7, 2017.
- 94) Synthesis, characterisation and antimicrobial screening of newly synthesized terpolymer and its metal complexes, International Conference on Chemical and Environmental Research (ICCER – 2017), Organized by Post Graduate and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli – 620 020, Tamil Nadu, India, January 7, 2017.

- 95) Synthesis of Mg doped NiO nanoparticles by co-precipitation method and their structural, optical characterization studies, International Conference on Chemical and Environmental Research (ICCER – 2017), Organized by Post Graduate and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli – 620 020, Tamil Nadu, India, January 7, 2017.
- 96) Qualitative phytochemical screening and antibacterial activity of *hygrophila auriculata* flowers, International Conference on Chemical and Environmental Research (ICCER – 2017), Organized by Post Graduate and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli – 620 020, Tamil Nadu, India, January 7, 2017.
- 97) Green synthesis of zinc oxide nanoparticles by coprecipitation method using *Moringa Oleifera* seed, National Level Conference on “New Horizons in Chemical Sciences” (NHCS-2017) Organized by Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous) Elayampalayam-637 205, Tiruchengode, Tamil Nadu, India January 6-7, 2017.
- 98) Synthesis, structural and optical characterization of Mg doped NiO nanoparticles by co-precipitation method, National Level Conference on “New Horizons in Chemical Sciences” (NHCS-2017) Organized by Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous) Elayampalayam-637 205, Tiruchengode, Tamil Nadu, India January 6-7, 2017.
- 99) Biosynthesis, characterization and antimicrobial activity of copper oxide nanoparticles produced using *Gymnema sylvestre* plant extract, National Level Conference on “New Horizons in Chemical Sciences” (NHCS-2017) Organized by Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous) Elayampalayam-637 205, Tiruchengode, Tamil Nadu, India January 6-7, 2017.
- 100) Role of Zn and Oxygen vacancies in green and chemically synthesized ZnO nanoparticles and their comparative *invitro* Toxicity studies for microbial and cancer cell (MCF-7) models. **Proceeding of 64th IASTEM International conference, Bali, Indonesia. Organized by: IASTEM International Academy of Science, Technology, Engineering and management.** Date: 13-14 July 2017.
- 101) Geo Chemical Baseline of Major Ions and Heavy Metals on Groundwater's Around the Rural Areas of Alathur Block, Perambalur District. Organised by National Conference on Recent Developments in Chemistry (NCRDC-2018) on 20th January 2018. Organised by: PG and Research Department of Chemistry Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 102) Prediction of Groundwater Quality in Amaravathi River Basin of Karur District, Tamilnadu using Statistical Analysis. Organised by National Conference on Recent Developments in Chemistry (NCRDC-2018) on 20th January 2018. Organised by: PG and Research Department of Chemistry Jamal Mohamed College (Autonomous), Tiruchirappalli.

- 103) Studies on the Metal Ion Uptake Properties of P-Phenylenediamine based Terpolymer Resin. Organised by National Conference on Recent Developments in Chemistry (NCRDC-2018) on 20th January 2018. Organised by: PG and Research Department of Chemistry Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 104) Green Synthesis, Structural and Optical Characterization of Pure and La Doped ZnO Nanoparticles. Organised by National Conference on Recent Developments in Chemistry (NCRDC-2018) on 20th January 2018. Organised by: PG and Research Department of Chemistry Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 105) Banana Flower Stem Resin Mediated Robust Approach for the Hydrothermal Synthesis of Iron Oxide Nanostructures: Photoluminescence, Thermal and Magnetic Properties Iron Oxide Nanorods and its Applications in Photo Catalysis and Antibacterial Activity. Organised by National Conference on Recent Developments in Chemistry (NCRDC-2018) on 20th January 2018. Organised by: PG and Research Department of Chemistry Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 106) Inhibition of Corrosion of Mild Steel in 1.0 M H₂SO₄ by 1-(Morpholino (P-Tolyl) Methyl) Urea. Organised by National Conference on Recent Developments in Chemistry (NCRDC-2018) on 20th January 2018. Organised by: PG and Research Department of Chemistry Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 107) Structural and Optical Characterizations of Ni Doped CuO Nanoparticles produced using Green Synthesis Method. Organised by National Conference on Recent Developments in Chemistry (NCRDC-2018) on 20th January 2018. Organised by: PG and Research Department of Chemistry Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 108) A Survey on measuring the satisfaction of tourist on standard of infrastructure available in Sittannaval in Pudukkottai district. International conference on Management of Tourism and Hospitality Sectors: Success Strategies on 23rd January 2018. **Organized by: Department of Hotel Management & Catering Science**, Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 109) Synthesis, structural and biological evaluation of new synthesized Terpolymer ligand and its polychelates. International Conference on Recent Trends in Synthetic Methods and Material Chemistry (RTSMC-2018), on 2nd & 3rd February 2018. Organised by: Department of Chemistry, (DST-FIST & UGC-SAP Sponsored Department), Annamalai University, Annamalai Nagar, Tamilnadu, India.
- 110) Green synthesis of Mg doped ZnO nanoparticles and their structural and optical studies. International Conference on Recent Trends in Synthetic Methods and Material Chemistry (RTSMC-2018), on 2nd & 3rd February 2018. Organised by: Department of Chemistry, (DST-FIST & UGC-SAP Sponsored Department), Annamalai University, Annamalai Nagar, Tamilnadu, India.

- 111) Synthesis, structural and antibacterial properties of Pure and Mg doped CuO nanoparticles by co-precipitation method. National Level Conference on “Current Scenario in Chemical and Environmental Research (CSCER - 2018)” on 20 & 21st February 2018. Organized by: Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam-637 205.Tiruchengode, Namakkal Dt. Tamil Nadu, India.
- 112) Physico-Chemical Characteristics of Under Ground Water in Alathur Block – Perambalur. National Level Conference on “Current Scenario in Chemical and Environmental Research (CSCER - 2018)” on 20 & 21st February 2018. Organized by: Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam-637 205.Tiruchengode, Namakkal Dt. Tamil Nadu, India.
- 113) Facile synthesis of Zn doped CuO nanostructures: Structural, optical and antibacterial properties. National Level Conference on “Current Scenario in Chemical and Environmental Research (CSCER - 2018)” on 20 & 21st February 2018. Organized by: Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam-637 205.Tiruchengode, Namakkal Dt. Tamil Nadu, India.
- 114) Green Synthesis of Mg doped ZnO nanoparticles and their structural, optical and antibacterial studies. A One Day National seminar on Solid State Physics and its applications (NaSSSPA- 2018). Organized by: PG and Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 115) Synthesis and characterization of Pure and Mg doped CuO nanoparticles and their structural, optical and antibacterial studies. Two-day National conference on New Vistas in Material science, organized by J. J College of arts and science (autonomous) Pudukkottai- 622 422, Tamilnadu. March 8-9, 2018.
- 116) Structural, optical and antibacterial properties of Mg doped ZnO nanoparticles produced using green synthesis method. International conference on synthetic materials for science and engineering applications (SMSEA-2018). Organized by M. Kumarasamy College of engineering, Thalavapalayam, Karur, Tamilnadu. April-11, 2018.
- 117) Studies on the chelating ion-exchange properties of a novel terpolymer resin derived from 2- Aminopyrimidine, p-Nitroaniline and formaldehyde. International conference on synthetic materials for science and engineering applications (SMSEA-2018). Organized by M. Kumarasamy College of engineering, Thalavapalayam, Karur, Tamilnadu. April-11, 2018.
- 118) BRNS-AEACI Thirteenth school on Analytical chemistry (SAC-13), Organized by Department of Hydro & Electrometallurgy CSIR- IMMT Bhubaneswar, Odisha. Date: April 23-30, 2018.

- 119) Novel Terpolymer Ligand and its Polychelates: Synthesis, Characterisation and Biological Evaluation. National Conference on Advances in applied chemistry (NCAAC'18). Organized by PG and Research Department of Chemistry, St. Joseph's College (Autonomous). 14th December 2018.
- 120) Hydrothermal Green Synthesis of Silver Nanoparticles Using *Azadirachta Indica* a Juss Fruit Juice for Potential Antibacterial Activity, National Conference on Advances in applied chemistry (NCAAC'18). Organized by PG and Research Department of Chemistry, St. Joseph's College (Autonomous). 14th December 2018.
- 121) Facile Green Synthesis of Zn doped CuO Nanoparticles and their Structural Optical and Antibacterial Properties, National Conference on Advances in applied chemistry (NCAAC'18). Organized by PG and Research Department of Chemistry, St. Joseph's College (Autonomous). 14th December 2018.
- 122) Green Synthesis, Structural and Optical Characterization of Cu doped ZnO Nanoparticles. National Conference on Advances in applied chemistry (NCAAC'18). Organized by PG and Research Department of Chemistry, St. Joseph's College (Autonomous). 14th December 2018.
- 123) Synthesis, Structural and Optical Characterization of Pure and MgCa co-doped ZnO Nanoparticles by co-precipitation Method. 4th International conference on chemical and environmental research (ICCER-2018), on 19th December 2018. Organised by: PG and Research Department of Chemistry Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 124) Green synthesis, structural and Optical Properties of Pure and Mg doped ZnO Nanoparticles Produced by using *Mangifera Indica* Leaves Extracts, 4th International conference on chemical and environmental research (ICCER-2018), on 19th December 2018. Organised by: PG and Research Department of Chemistry Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 125) Hydrothermal Green Synthesis of Fe₂O₃ Nanostructures: Size and Shape Effects on the Applications of Enhanced in-vitro Biological Assay. 4th International conference on chemical and environmental research (ICCER-2018), on 19th December 2018. Organised by: PG and Research Department of Chemistry Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 126) Synthesis, Structural and Optical Characterization of TiO₂ Nanoparticles and Its Evaluation of Antimicrobial Activity. 4th International conference on chemical and environmental research (ICCER-2018), on 19th December 2018. Organised by: PG and Research Department of Chemistry Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 127) p-Semidine-p-Nitroaniline-Formaldehyde Terpolymer Resin and Its Chelating Ion-Exchange Properties. 4th International conference on chemical and environmental research (ICCER-2018), on 19th December 2018. Organised by: PG and Research Department of Chemistry Jamal Mohamed College (Autonomous), Tiruchirappalli.

- 128) Optical and structural properties of pure and Mg doped ZnO nanoparticles produced by using *psidium guajava* leaves extract. International conference on Modern Trends in Chemical Sciences Including Green Chemistry (MTCSGC-2018), On 27-29th Dec 2018, Organized by Association of Chemistry Teachers, Mumbai & Rasayan Journal of Chemistry at SRM Institute of Science and Technology, Ramapuram Campus, Chennai-89.
- 129) Facile synthesis of Sn Doped CuO nanostructures: structural, optical and antibacterial properties. International Conference on “Environment and Health” (ICEH- 2019). On 25th January 2019. Organised by: P.G. & Research Department of Zoology, Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 130) Synthesis, structural, optical and antibacterial properties of pure and MgCa co-doped ZnO nanoparticles by co-precipitation method. ADVANCED TOPICS IN PHYSICS (NSATP - 19). Organised by: P.G. & Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 131) Paper presented in the 6th International Conference organized by the **Indian Council of Chemists** on Chemistry-Our Health, Our Future, held at **Paris (France) and Brussels (Belgium)**, 6th – 8th June, 2019.
- 132) Effective synthesis of cobalt doped CuO Nanoparticles: Characterization and antibacterial activity. 5th International Conference on Chemical and Environmental Research (ICCER-2020), 8th January 2020, Organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 133) Synthesis and characterization of pure and W-doped TiO₂ nanoparticles and its application to antimicrobial activity. In the above ICCER-2020.
- 134) Facile one pot microwave-assisted green synthesis of Fe₂O₃/Ag nanocomposites by phyto-reduction: potential application as sunlight driven photo catalyst, antibacterial and anticancer agent. In the above ICCER-2020.
- 135) Impact of rare earth metal ions (La, Nd) doped ZnO nanoparticles and their structural, optical and anticancer properties: synthesized by using *Gymnema sylvestre* leaves extract. In the above ICCER-2020.
- 136) Synthesis and characterization of Pure CdO Nanoparticles by *C. gigantea* through green method. In the above ICCER-2020.
- 137) Antimicrobial Evaluation of Newly Synthesized Terpolymeric ligand and its polychelate. In the above ICCER-2020.
- 138) MgO nanoparticles synthesis using *Acalypha indica* leaf extract and its Characterization. In the above ICCER-2020.
- 139) Synthesis and characterization of pure CdO nanoparticles using *P. niruri* leaves extract. In the above ICCER-2020.

- 140) Green synthesis and characterization of pure MgO nanoparticles. In the above ICCER-2020.
- 141) Controlling the morphology and size of CuO nanostructure synthesized by hydrothermal method using without any additive, ICCER-2020.
- 142) Preparation, size and morphology controlling of CuO nanoparticles by hydrothermal method. International conference on challenges to environment and health (ICCEH-2020). On 30th January 2020. Organized by PG and Research Department of Zoology, Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 143) Synthesis of pure and LaCe dual doped ZnO nanoparticles prepared by co-precipitation method and their structural, optical and antimicrobial properties. International conference on challenges to environment and health (ICCEH-2020). On 30th January 2020. Organized by PG and Research Department of Zoology, Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 144) Antibacterial study for the newly synthesized cobalt complex. International conference on challenges to environment and health (ICCEH-2020). On 30th January 2020. Organized by PG and Research Department of Zoology, Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 145) Participated in the National Convention of Chemistry Teachers of India and International Conference on Chemistry and Chemistry Education, Innovations for Sustainable Chemistry: Challenges & Opportunities, Organized by Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore in collaboration with Association of Chemistry Teachers (ACT)-Mumbai and Indian Chemical Society-Kolkata on 13-15 October 2022.
- 146) Participated in the Three Day workshop on Active Learning Techniques and Assessment to Achieve Outcome Based Learning, 05-07 July 2023, organized by the Curriculum Development Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli.
- 147) Green synthesis approach of La²⁺ doped ZnO Nanoparticles for antimicrobial applications. 8th International Conference on Recent Advances in Chemical and Environmental Research (ICRACER-2023), 20th December 2023, Organized by PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli.

14 [b] Activity during COVID-19 Pandemic Period

Several webinars attended

15. Awards and Recognition:

1. **Best Paper Award** for “Role of Zn and Oxygen vacancies in green and chemically synthesized ZnO nanoparticles and their comparative *invitro* Toxicity studies for microbial and cancer cell (MCF-7) models”. **Proceeding of 64th IASTEM International conference, Bali, Indonesia. Organized by: IASTEM International Academy of Science, Technology, Engineering and Management.** Date: 13-14 July 2017.
2. **International Teacher Award 2020-21** by **International Institute of Organized Research (I2OR)**, Registered with Ministry of Micro, Small and Medium Enterprises, Govt. of India.
3. **Best Senior Researcher Award 2022**, by the **Management Committee of Jamal Mohamed College**, Trichy-620 020. (received on the College Day held on 6 June 2022)
4. **ACT Prof Dr Bhupendra Sahai Saxena Award for Best PG Chemistry Teacher for 2022** by **Association of Chemistry Teachers**, Homi Baba Centre for Science Education (TIFR), Mumbai-400 088. (Received during National Convention of Chemistry Teachers of India and International Conference on Chemistry and Chemistry Education, Innovations for Sustainable Chemistry: Challenges & Opportunities, Organized by Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore in collaboration with Association of Chemistry Teachers (ACT)-Mumbai and Indian Chemical Society-Kolkata on 13-15 October 2022).
5. **Listed as the Top 50 Eminent Teachers of the Year 2023**, by **International Institute of Organized Research (I2OR)**, Registered with Ministry of Micro, Small and Medium Enterprises, Govt. of India for the remarkable contribution in the field of Academics.
6. Selected by Edition 04 of Business Talkz Magazine as one of the **Leading Professors 2023**.

15. Workshops Attended:

1. Participated in the Workshop in Recent Trends in Pharmaceutical Chemistry at Periyar Maniammai College of Pharmaceutical Sciences, Trichy, February 27, 2004.
2. One Day Workshop on Red Ribbon Club Management, organized by NSS & RRC of Bharathidasan University, Trichy and Tamil Nadu State AIDS Control Society, Chennai, September 28, 2005.
3. Two Days Workshop on Disaster Management at Primary Health Centre, Poonamalle, Chennai, February, 2006.
4. Three days' workshop on Modern Analytical Techniques at National College, Tiruchirappalli-620 001, 18-20, January 2013.
5. One-day workshop on Photo catalysis for Sustainability: Fundamentals and Applications at Department of Chemistry, Bharathidasan Institute of Technology, Tiruchirappalli-620 024, October 09, 2013.

6. A one-day Inter-Collegiate workshop on E-Content Development for Teaching-Learning, organized by Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Trichy-20.
7. Participated in the one-day workshop on XRD Techniques at National College, Tiruchirappalli- 620 001 on 16.12.2017.

16. Seminars / Conferences / Workshops Organized:

Member of the Organizing Committee for:

- 1) National Symposium on Recent Trends in Heterocyclic Chemistry at Jamal Mohamed College, Trichy – 20, Sep 24-25, 2004.
- 2) State level Seminar on Emerging Trends in Chemistry at Jamal Mohamed College, Trichy – 20, March 09, 2006.
- 3) Seminar on Advanced Topics in Chemistry at Jamal Mohamed College, Trichy – 20, March 13-14, 2007.
- 4) State level Seminar on Frontier Studies in Chemistry at Jamal Mohamed College, Trichy – 20, February 09-10, 2010.
- 5) National Advisory Committee Member, National Conference on New Renaissance in Chemical Research (NCNRRCR-2011), Organized by Department of Chemistry, SRM University Chennai-600 089, 4, March 2011.
- 6) State Level Seminar on New Vistas in Chemistry (NVC-2012), Jamal Mohamed College, January 4-5, 2012.
- 7) National Conference on Current Trend in Chemistry Research (NCTCR-2013), Jamal Mohamed College, 27-28, February 2013. Editor-in-chief of the proceedings of this conference.
- 8) **CONVENER AND ORGANIZING SECRETARY, INTERNATIONAL CONFERENCE ON CHEMICAL AND ENVIRONMENTAL RESEARCH (ICCER-2014), Jamal Mohamed College, 11 & 12 March 2014.**
Website-www.iccer.info
- 9) Two-day National conference on Current Scenario in Material Chemistry (CSIMC 2015), Jamal Mohamed College, Tiruchirappalli, 9-10, February 2015.
- 10) International Conference on Chemical and Environmental Research (ICCER-2016), Jamal Mohamed College, 17th December 2016.
- 11) International Conference on Chemical and Environmental Research (ICCER-2017), Jamal Mohamed College, 7th January 2017.
- 12) International Conference on Chemical and Environmental Research (ICCER-2018), Jamal Mohamed College, 7th January 2018.
- 13) International Conference on Chemical and Environmental Research (ICCER-2019), Jamal Mohamed College, 7th January 2019.
- 14) International Conference on Chemical and Environmental Research (ICCER-2020), Jamal Mohamed College, 8th January 2020.
- 15) National Advisory Committee Member, International Conference on Emerging Trends in Materials for Energy & Biological Applications, Organized by Department of Science and Humanities, Kumarasamy Engineering College, Thalavapalayam, Karur, 7th March 2020.
- 16) Three Day workshop on Active Learning Techniques and Assessment to Achieve Outcome Based Learning, 05-07 July 2023, organized by the Curriculum Development Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli.

17. Orientation / Refresher Courses / Special Training Courses Attended:

- 1) Orientation Course: UGC Sponsored, Academic Staff College, Bharathidasan University, Trichy – 620 023, 20.05.2000 to 16.06.2000, A Grade
- 2) Refresher Course: Department of Chemistry, Annamalai University, Annamalai Nagar – 608 002, 11.11.2002 to 01.12.2002, A Grade.
- 3) Refresher Course: UGC Sponsored, Academic Staff College, Bharathidasan University, Trichy – 620 023, 03.11.03 to 23.11.2003, A Grade.
- 4) NSS Orientation Programme – July 2006, A Grade
- 5) Short Term Course on Computational Chemistry, Conducted by Department of Chemistry, National Institute of Technology, Trichy, 23.07.12 to 27.07.2012.

18. Study Materials / Books Written:

1. Editor-in-Chief, Proceedings of the National Conference on Current Trend in Chemistry Research (NCTCR-2013), Jamal Mohamed College, 27-28, February 2013.
2. Editor-in-Chief, Proceedings of the National Conference on Current Trend in Chemistry Research (NCTCR-2013), Jamal Mohamed College, 27-28, February 2013.
3. Editor-in-Chief, Proceedings of the International Conference on Chemical and Environmental Research, (ICCER-2014), Jamal Mohamed College, 11-12, March 2014.
4. **Title of the book : Crystallizing Ideas – The Role of Chemistry-Chapter-12**, Physicochemical and Microbiological Studies of Soils in Amaravathi River Bed Area, Karur District, TamilNadu, India, PP. 181-200, Feb-2016, Springer International Publishing, Switzerland. Editors : Ponnadurai Ramasami, Sabina Jhaumeer Laulloo, Minu Gupta Bhowon and Henri LI Kam Wah, ISBN 978-3-319- 31758-8 (Print) ISBN 978-3-319-31759-5 (eBook), DOI 10.1007/978-3-319-31759-5.
5. **Title of the Book : Groundwater Resources Development and Planning in the Semi-Arid Region-Chapter-14**, Hydrogeochemistry of Groundwater Quality in Amaravathi River Basin of Karur District (Tamilnadu) Using Graphical and Multivariate Statistical Methods, Jafar Ahamed A and Loganathan K, 269-292, May-2021, Springer International Publishing, Switzerland. Editors : Chaitanya B. Pande, Kanak N. Moharir, ISBN 978-3-030- 68123-4 (Print) ISBN 978-3-030-68124-1, (eBook) <https://doi.org/10.1007/978-3-030-68124-1>.
6. **Physical Chemistry Lab Manual**, on July 2022, Jazym Publications, Trichy, ISBN No. 978-93-91563 -10-3.
7. **Essentials of Organic Chemistry**, on December 2022, with the support of Book Pen Publishing & Notion Press, India, Malaysia & Singapore, ISBN: 979888834824.
8. **Recent Advances in Bioorganic Chemistry**, September 2023, Alpha International Publication, 3/725/2, Kammangudi, Adichapuram, Thiruvarur District, Tamilnadu-614 717, ISBN: 978-93-5762-083-3.

19. Resource Person:

1. Special Lecture on Ecological Damage, Cauvery College for Women, August 31, 2005.
2. Special Lecture on Environmental Pollution, Dhanalakshmi Srinivasan College for Women, March, 2006.
3. Special Lecture on Environmental Pollution and Management, Periyar Pharmaceutical College for Women, April, 2006.
4. UGC-CSIR Coaching Programme, Jamal Mohamed College, Trichy, November 2009.
5. Special Lecture on Environmental Pollution and Management, Vivekananda College of Arts and Science for Women, Elayampalayam, Thiruchengode, 22nd Sep 2016.
6. Chief Guest for the Inauguration of Science Forum and Special Lecture on Goal Setting, Muthayammal College of Arts and Science, Rasipuram-637 408, 22nd Oct 2016.
7. Special Address on “Grow Tree-Harvest Rain” to NSS students in the NSS special camp held at Burma Colony, Anna Nagar on 10th Feb 2020.
8. Invited talk on Green Synthesis of Metal Oxide nanoparticles and Their Applications in the International Virtual Faculty Development Programme (24.08.2020 to 28.08.2020) on Recent Trends on Current Science and Technology organized by Easwari Engineering College, Chennai on 26-08-2020.
9. Special Lecture on “The Art of Patenting”, FDP, Jamal Mohamed College, Trichy-620 020, 21-06-2021.
10. Invited talk on Green Synthesis and Applications of Metal Oxide Nanoparticles in the Six Days International Virtual Faculty Development Programme (24.08.2020 to 28.08.2020) on Innovative Trends in Science & Technology organized by Department of Science & Humanities, M. Kumarasamy College of Engineering College, Karur, TN on 30-07-2021.
11. Special Lecture on “Inspiring Features of Intellectual Property Rights”, Jamal Mohamed College, Trichy-620 020, on 26-04-2022.
12. Special Lecture on “Food Safety”, Valedictory Address, Department of N & D, Jamal Mohamed College, Trichy-620 020.
13. Guest Lecture on “Surface Chemistry”, JJ College of Arts and Science, Pudukkottai, 22-07-2022.
14. Special Address on “Environmental Awareness” to NSS students in the NSS special camp held at Navalpattu on 14th Feb 2024.

20. Administrative Positions Held:

1. Additional Chief Superintendent, Distance Education, Bharathidasan University, 2003-2006.
2. Camp Officer, Central Valuation Centre, Jamal Mohamed College, 2000-2002.
3. Nodal Officer – UGC, Since 2018.
4. IQAC Core Member, Since 2020
5. Coordinator, Department of Hotel Management and Catering Science from 2014-2023

21. In-charge / Membership in Committees for Autonomous Programme Implementation:

1. Member, **Library Committee**, 2008-11
2. **Counselor** for UG Chemistry students, 2001 - 2004 & 2011- 2014
3. Member, **Entrepreneurship Development Cell**, 2012-2014
4. Member, **Grievance Cell**, 2012-2014.
5. Member, **Research Committee**, 2018 to 2021
6. Member, **Grievance Redressal Committee**, 2021- till date

22. In-charge / Participation in Extracurricular Activities:

1. Department **Test In-charge**, 2003 – 2004
2. **Vice President** of Chemistry Association (2004 - 2005)
3. **NSS Programme Officer** from August 2005 to March 2008
4. **Coordinator**, Red Ribbon Club, 2005-06
5. **Coordinator**, Creation of Scientific Awareness among Farmers, Self Help Groups & School Children, Created and Catalyzed by **Tamil Nadu State Council for Science and Technology, Chennai.**

23. Participation in Consultancy, Training, Development etc.:

1. In-charge for the Instrumentation Centre (FTIR-Shimadzu, UV-Vis - Lab India) of Chemistry Department, 2011-12.

24. Membership in Academic Bodies

1. Member, **Board of Studies** of Chemistry Department, Jamal Mohamed College (Autonomous), Tiruchirappalli
2. Member, **Board of Studies** of Chemistry Department, Selvam College of Arts and Science (Autonomous), Namakkal
3. Member, **Board of Studies** of Chemistry Department, VICAS (Autonomous), Elayampalayam, Thiruchengode
4. Examiner, **PG Valuation Board**, Bharathidasan University, Tiruchirappalli
5. Examiner, **PG Valuation Board**, Periyar University, Salem, Examiner, **PG Valuation Board**, Many Autonomous Colleges
6. Member, **Board of Studies** of Chemistry Department, H.H. Raja's College (Autonomous), Pudukkottai
7. **Doctoral Committee Member** for more than 25 Ph. D. Scholars of various Colleges of Bharathidasan University
8. Recognized **Guide** for M.Phil. and Ph.D. of PRIST University (Deemed), Thanjavur
9. **Reviewer:**
 1. Journal of Indian Chemical Society, Kolkata
 2. Journal of Chemical Engineering and Materials Science (Academic Journals).
 3. Water Quality, Exposure and Health (Springer).
 4. Applied Water Science (Springer).
 5. Sustainable Water Resource Management (Springer).
10. **Bharathidasan University Representative, Board of Studies of Chemistry Department, Periyar EVR College (Autonomous), 2014-2016**, Tiruchirappalli
11. **Editorial Advisory Board Member of Journals:**

National : 1. Chemical Science Transaction, India
2. Journal of Environmental Nanotechnology, India
3. Jamal Academic Research Journal, In-house Journal
4. Associate Editor, Journal of Advanced Applied Scientific Research
ISSN: 2454-3225

International : 5. Geology, Ecology and Landscapes by *Taylor and Francis*
12. **Ph.D. Thesis Evaluator:**
 1. **Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra.**
 2. **University of Mumbai, Mumbai, Maharashtra.**
 3. **PSG College of Arts and Science, Bharathiar University, Coimbatore.**
 4. **Kannur University, Kannur, Kerala.**
 5. **Periyar University, Salem, Tamilnadu.**
 6. **SNDT Women's University, Mumbai**

25. Membership in Professional Bodies:

1. **Life Fellow**, Indian Council of Chemists, (FICC), Agra
2. **Associate Member**, Niamath Science Academy (AMNSA), Chennai
3. **Life Member**, Association of Chemistry Teachers (FIACCT), Mumbai
4. **Member**, International Scientific Academy of Engineering & Technology
5. **Regular Member**, American Chemical Society, No. 31028881
6. **Life Member**, Chemical Research Society of India, (CRSI), Bangalore
7. **Life Member**, **International Institute of Organized Research (I2OR)**,
Membership Number: I2OR/2023/01229

26. Countries Visited

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1. **Thailand** to present a paper in the **4th International Congress of Chemistry and Environment (ICCE 2009)** organized by The Research Journal of Chemistry and Environment, at Ubon Ratchathani University, Ubon Ratchathani, **Thailand**, 21– 23, January 2010.
 2. **Malaysia** to present a paper in the **5th International Congress of Chemistry and Environment (ICCE 2011)** organized by The Research Journal of Chemistry and Environment, at Port Dickson, **Malaysia**, 27– 29, May 2011.
 3. **Srilanka** to present a paper in the **International Conference on Chemical Sciences** Organized by Institute of Chemistry, Ceylon at **Colombo, Srilanka**, 20-22, June 2012.
 4. Presented paper entitled Physico-Chemical and Microbiological Studies of Soils in Amaravathi River Bed Area, Karur District, Tamil Nadu, India, **International Conference on Pure and Applied Chemistry (ICPAC-2014)**, Organized by **Department of Chemistry, University of Mauritius, Réduit, Mauritius**, 23-27, June 2014.
 5. Presented paper entitled Role of Zn and Oxygen vacancies in green and chemically synthesized ZnO nanoparticles and their comparative In Vitro Toxicity studies for microbial and cancer cell (MCF-7) models. **Proceeding of 64th IASTEM International conference, Bali, Indonesia. Organized by: IASTEM International Academy of Science, Technology, Engineering and management.** Date: 13-14 July 2017.
 6. Paper presented in the 6th International Conference organized by the Indian Council of Chemists on Chemistry-Our Health, Our Future, held at **Paris (France) and Brussels (Belgium)**, 6th – 8th June, 2019.