


**RESUME (as on 31-01-2016)**

<b>1</b>		<b>Name : Dr. A. JAFAR AHAMED</b>												
<b>2</b>	Date of Birth	01.05.1970												
<b>3</b>	Designation	Associate Professor in Chemistry												
<b>4</b>	Address for Communication	<b>Office</b> Post Graduate and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Affiliated to Bharathidasan University, Tiruchirappalli – 20, India <b>Additional Charge : Coordinator, Department of Hotel                      Management and Catering Science</b>												
	<b>Residence</b> Plot No. 144, R.V.S. Nagar Tiruchirappalli–23, India Phone :+91-431-2420333 Cell :+91-90035-76896													
<b>5</b>	Educational Qualifications	M.Sc. (Chem.), Bharathidasan University, Trichy, 1992 B.Ed. (Chem.), Annamalai University, 1993 Ph.D. (Chem.) Bharathidasan University, Trichy, 1998												
<b>6</b>	Teaching Experience	<table border="0"> <tr> <td align="center"><u>UG</u></td> <td align="center"><u>PG</u></td> <td align="center"><u>M.Phil.</u></td> </tr> <tr> <td align="center">18 years</td> <td align="center">18 years</td> <td align="center">11 years</td> </tr> </table>	<u>UG</u>	<u>PG</u>	<u>M.Phil.</u>	18 years	18 years	11 years						
<u>UG</u>	<u>PG</u>	<u>M.Phil.</u>												
18 years	18 years	11 years												
	Research Experience	23 years From 1993												
<b>7</b>	Areas of Specialization	Physical Chemistry, Environmental Chemistry, Analytical and Synthetic Organic Chemistry												
<b>8</b>	Languages Known	Tamil, Urdu, Hindi & English												
<b>9</b>	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												
<b>10</b>	Research Supervision	<table border="0"> <tr> <td></td> <td><b>Completed</b></td> <td><b>Submitted</b></td> <td><b>Pursuing</b></td> </tr> <tr> <td>M.Phil.</td> <td align="center">26</td> <td align="center">--</td> <td align="center">04</td> </tr> <tr> <td>Ph.D.</td> <td align="center">10</td> <td align="center">03</td> <td align="center">06</td> </tr> </table>		<b>Completed</b>	<b>Submitted</b>	<b>Pursuing</b>	M.Phil.	26	--	04	Ph.D.	10	03	06
	<b>Completed</b>	<b>Submitted</b>	<b>Pursuing</b>											
M.Phil.	26	--	04											
Ph.D.	10	03	06											

## 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

- Title** : Facile synthesis of NiSe:Zn Nanoparticles by method variation and their morphological studies
- Authors** : **A. Jafar Ahamed and M. Sastha Begum**
- Agency** : **Intellectual Property, India, Ministry of Commerce and Industry.**
- Application number** : **1192/CHE/2015 dt. 11-03-2015**
- Authentication** : **09-09-2015**

## 13. Countries Visited

1. **Thailand** to present a paper in the **4<sup>th</sup> 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 **5<sup>th</sup> 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.

## 14. Publications :

1. Removal of Cadmium by Adsorption Technique, N. Balasubramanian, T.R. Prabakaran, K. Lalitha and A. Jafar Ahamed, *J. Natcon.*, **7 (1)**, 17-23, 1995.
2. Application of Adsorption Dynamics for the Removal of Hexavalent Chromium, N. Balasubramanian, K. Lalitha and A. Jafar Ahamed, *Indian J. Environ. Prot.*, **16 (4)**, 263-268, 1996.
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.
11. Adsorption of Lead(II) onto Lignite – Effect of Contact Time, pH, Temperature and Size of Lignite, A. Jafar Ahamed, *J. Indian Coun. Chem.*, **20 (2)**, 7-12, 2003.
12. Removal of Cr (VI) from Wastewaters using Kongu Wood Carbon, A. Jafar Ahamed, *JARJ: Int.*, **1 (1)**, 21-27, 2004.
13. Studies on the impact of Lead on the Cowpea, (*Vigna unguiculata* L.), Walp. Var. Long, A. Jafar Ahamed, D. Saravanan, N. Balasubramanian and S. Kalavathy, *Poll. Res.*, **23 (1)**, 183-186, 2004.
14. Hydro geochemical Analysis of Water Samples in Some Places at Kerala, A. Jafar Ahamed, *Oriental J. Chem.*, **20 (1)**, 143-146, 2004.
15. Adsorption of Cr(VI) on Commercially Available Ash Power – a Kinetic Approach, A. Jafar Ahamed, B. Suganthana, B.R. Venkatraman and Shameela Rajam, *J. Indian Chem. Soc.*, **83**, 792-795, August 2006.
16. Quantitation of Proteinuria by Spot Urine Sampling in Patients with Nephritic Syndrome, P. Giri, A. Jafar Ahamed and R. Kumaresan, *Oriental J. Chem.*, **22 (2)**, 375-376, 2006.
17. Serum Electrolytes Profile Levels in Diabetic and Non-diabetic Chronic Kidney Disease Patients, P. Giri, A. Jafar Ahamed and R. Kumaresan, *Oriental J. Chem.*, **22 (2)**, 465-467, 2006.
18. Physico-chemical Analysis of Bore Water of Kajanagar, Trichy, Tamil Nadu, A. Jafar Ahamed and K. Riaz Ahamed, *JARJ: Int.*, **3(2)**, 20-21, 2006.

19. Removal and Recovery of Cr (VI) from Wastewater Using an Agricultural Waste material: Jatropha curcas Seed Shell, S. Karthikeyan, A. Jafar Ahamed, T. Maiyalagan and D. Saravanan, Proceedings of 3<sup>rd</sup> ICCE 18<sup>th</sup> – 20<sup>th</sup> November 2007, Kuwait.
20. Preparation and Characterization of Activated Carbon from the *Prosopis juliflora* Plant, A. Jafar Ahamed and K. Riaz Ahamed, *Asian J. Chem.*, **20(3)**, 1702-06, 2008.
21. Evaluation of Serum Cystatin C as an Early Marker for Contrast Nephropathy in Patients undergoing Coronary Angiogram, R. Kumaresan, A. Jafar Ahamed and P. Giri, *Int. J. Biomed. Engg. Cons. Hlth. Informatics*, **1(1)**, 61-62, 2009.
22. Synthesis, characterization and biological activity of some novel benzimidazole derivatives, Ahamed A. Jafar, Kaliapillai N. Vijayakumar, Bathey R. Venkatraman and Govindaraj Venkatesh, *Orbital/The Electronic Journal of Chemistry (Brazil)*, **1(4)**, 306-309, 2009.
23. Adsorption of Pb (II) ions on Teak Leaves Activated Carbon-A Kinetic and Equilibrium Study, Ahamed A. Jafar and Suganthana Balasubramanian, *Der Chemica Sinica*, **1(2)**, 35-43, 2010.
24. Studies on the adsorption of ferrous ion from aqueous solution by low cost carbon, A. Jafar Ahamed and V. Balakrishnan, *J. Chem. Pharm. Res.*, **2(3)**, 733-745, 2010.
25. Synthesis, Anti-Tumor and Anti-Diabetic Activities of Some Novel Benzimidazole Derivatives, K. Vijayakumar and A. Jafar Ahamed, *J. Chem. Pharm. Res.*, **2(4)**, 215-224, 2010.
26. Synthesis and Biological Activities of Some Novel Substituted Quinazole Derivatives, K. Vijayakumar and A. Jafar Ahamed, *Der Pharma Chemica*, **2(5)**, 453-457, 2010.
27. Studies on Adsorption Mechanism of Cu(II) Ions by a New Activated Carbon, V. Balakrishnan, S. Arivoli, A. Shajutha Begum and A. Jafar Ahamed, *J. Chem. Pharm. Res.*, **2(6)**, 176-190, 2010.
28. Kinetic and Equilibrium Studies on the Adsorption of Cu(II) Ions by a New Activated Carbon, A. Jafar Ahamed, V. Balakrishnan and S. Arivoli, *Eur. J. Exp. Bio.*, **1(1)**, 23-37, 2011.
29. Kinetic and Equilibrium Studies of Rhodamine B Adsorption by Low Cost Activated Carbon, A. Jafar Ahamed, V. Balakrishnan and S. Arivoli, *Arch. Appl. Sci. Res.*, **3(3)**, 154-166, 2011.
30. A new three-component reaction: Green synthesis of novel isoindolo[2,1-*a*]quinazoline derivatives as potent inhibitors of TNF- $\alpha$ , K. Sivakumar, P. Mahesh Kumar, K. Anil Kumar, M. Sreenivasulu, Ahamed A. Jafar, D. Rambabu, G. Rama Krishna, C. Malla Reddy, Ravikumar Kapavarapu, K. Shivakumar, K. Krishna Priya, Kishore V.L. Parsa and Manojit Pal, *Chem. Commun.*, **(Royal Society of Chemistry – Impact Factor - 5.054)**, **47**, 5010-5012, 2011.
31. Yb(OTf)<sub>3</sub> catalyzed new cascade reaction: a facile assembly of fused quinazolinones, K. Sivakumar, P. Mahesh Kumar, M. Appi Reddy, Md. Ferozuddin, M. Sreenivasulu, Ahamed A. Jafar, G. Rama Krishna, C. Malla Reddy, D. Rambabu, K. Shivakumar, Sarbani Pal and Manojit Pal, *Chem. Commun.*, **(Royal Society of Chemistry – Impact Factor - 5.054)**, **47**, 10263-10265, 2011.
32. Physico-Chemical Characteristics of Ground Water of Alathur Block –Perambalur, Tamilnadu, India, S. Anantha Krishnan and A. Jafar Ahamed, *J. Chem. Pharm. Res.*, **4(1)**, 596-600, 2012.
33. A new cascade reaction: concurrent construction of six and five membered rings leading to novel fused quinazolinones, K. Sivakumar, P. Mahesh Kumar, V. Sreenivasa Rao, Ahamed A. Jafar, Chandana Lakshmi T. Meda, R. Kapavarapu, Kishore V.L. Parsa and Manojit Pal, *Organic & Biomolecular Chemistry*, **(Royal Society of Chemistry – Impact Factor - 6.04)** doi: 10.1039/c2ob25296a, 2012.

34. Study on ground water quality and its suitability for drinking purpose in Alathur block-Perambalur district, S. Ananthakrishnan, K. Loganathan and A. Jafar Ahamed, *Arch. Appl. Sci. Res.*, **4(3)**, 1332-1338, 2012.
35. Adsorption of copper from aqueous solution using low-cost Adsorbent, A. Jafar Ahamed and A. Shajutha Begum, *Arch. Appl. Sci. Res.*, **4(3)**, 1532-1539, 2012.
36. Assessment and correlation analysis of surface and ground water of Amaravathi river basin-Karur, Tamilnadu, India, Ahamed A. Jafar and Loganathan. K, *J. Chem. Pharm. Res.*, **4(8)**, 3972-3983, 2012.
37. Effect of Temperature and Flow Rate on the Yield of Multi-walled Carbon Nanotubes by Spray Pyrolysis using Cymbopogon flexuosus Oil, S.Mageswari, A. Jafar Ahamed and S. Karthikeyan, *J. Environ. Nanotechnol.*, **1( 1)**, (2012) pp. 28-31, ISSN (Print) : 2279 – 0748, ISSN (Online) : 2319 – 5541, doi: 10.13074/jent.2012.10.121015.
38. A comparative evaluation of groundwater suitability for drinking and irrigation purposes in Pugalur area, Karur district, Tamilnadu, India, Jafar Ahamed. A, Loganathan. K and Ananthakrishnan. S, *Arch. Appl. Sci. Res.*, **5(1)**, 213-223, 2013.
39. Hydrochemical investigation of groundwater in some parts of Thanthoni and Karur region, Tamilnadu, India, Jafar Ahamed. A, Loganathan. K and Ananthakrishnan. S, *Int. J. Sci. Tech. Res.*, **2(4)**, 110-112, 2013.
40. Synthesis and Characterization of Monodisperse Fe-Co-Ni Colloidal Nanoparticles by Polyol Method A. Jafar Ahamed, P. Vijaya Kumar *J. Environ. Nanotechnol.* **(2)2**, 76-80, 2013, doi : 10.13074/jent.2013.06.132020.
41. Assessment of Groundwater Quality for Irrigation use in Alathur Block-Perambalur District, Tamilnadu, South India, A. Jafar Ahamed, S. Ananthakrishnan, K. Loganathan, K. Manikandan, published online in *Appl. Water Sci.*, **3(4)**, 763-771, 2013, ISSN 2190-5487, DOI: 10.1007/s13201-013-0124-z, 2013. **Springer Journals.**
42. Synthesis, Antimicrobial, and Anti-HIV1 Activity of Quinazoline-4(3H)-one Derivatives, K. Vijayakumar, A. Jafar Ahamed, and G. Thiruneelakandan., *Journal of Applied Chemistry*, **Volume 2013**, Article ID 387191.
43. Bio-Chemical Investigation of Selected Water Quality Parameters in Amaravathi River Basin, Karur District, Tamilnadu, India, Jafar Ahamed, A., Loganathan, K. and Vijayakumar, P., *International Journal of Current Research*, **5(10)**, 3100-3103, October 2013.
44. Assessment of Soil Parameters and Microbes in Amaravathi River Bed Area, Karur District, Tamil Nadu, India, A. Jafar Ahamed, K. Loganathan, S. Ananthakrishnan, *J. Environ. Nanotechnol.* **3(2)**, 150-155, 2014, doi : 10.13074/jent.2014.03.432074.
45. Sequential decarboxylative azide–alkyne cycloaddition and dehydrogenative coupling reactions: one-pot synthesis of polycyclic fused triazoles, Kuppasamy Bharathimohan, Thanasekaran Ponpandian, A. Jafar Ahamed and Nattamai Bhuvanesh, *Beilstein J. Org. Chem.*, 2014, 10, 3031–3037, doi:10.3762/bjoc.10.32. **(Impact Factor 2.820)**
46. Physico-chemical and microbial studies of soil samples in Alathur Block, Perambalur district, Tamil Nadu, A. Jafar Ahamed, S. Anantha Karishnan and K. Loganathan, *J. Environ. Nanotechnol.*, **4(1)**, 2015, 46-49,doi:10.13074/jent.2015.03.144138.
47. Synthesis and characterization of NiSe and doped NiSe:Mn, M. Sasthaa Begum and A. Jafar Ahamed, *J.Chem.Pharm.Res.*,**7(3)**, 2015, 530-536.
48. Synthesis and characterization of NiSe and Cobalt doped NiSe, M. Sasthaa Begum and A. Jafar Ahamed, *J.Chem.Pharm.Res.*,**7(5)**, 2015, 2031-2039.
49. Low Temperature Synthesis and Characterization of rGO-CoO Nanocomposite with Efficient Electrochemical Properties, A. Jafar Ahamed, P. Vijaya Kumar, G. Sriresh, *J. Environ. Nanotechnol.*, **4(2)**, 2015, 01-08, doi:10.13074/jent.2015.06.152147

50. Hydrologic and geologic factors controlling groundwater chemistry in Amaravathi River Basin, Karur District, Tamil Nadu, India, K. Loganathan and A. Jafar Ahamed, *Int. J. Chem*, **4(1)**, 2015, 40-48.
51. Hydrochemical characteristics and quality assessment of groundwater in Amaravathi rivr basin of arur district, Tamil Nadu, South India, A. Jafar Ahamed, K. Loganathan, R. Jayakumar, *Sustain. Water Resour. Manag*, **1**, 2015, 273–291, doi:10.1007/s40899-015-0026-3 **Springer Journals**.
52. Synthesis and Characterization of Chromium Doped NiSe, A. Jafar Ahamed, M. Sasthaa Begum, *J. Environ. Nanotechnol.* **4(3)**, 2015, 6-11, doi: 10.13074/jent.2015.09.153156.
53. Biological investigation of Novel Terpolymer Ligand and its polychelates, A. Jafar Ahamed and N. Mujafar Kani, *International Journal of Pharmaceutical chemistry*, **5(10)**, 2015, 359-366, doi: 10.7439/ijpc.
54. Wet chemical synthesis and characterization of NiO nanoparticles, A. Jafar Ahamed, P. Vijaya Kumar and M. Karthikeyan, *Int. J. Nano. Corr. Sci. Engg.* 2(5), 2015, 31-38.
55. A novel approach to synthesis and characterization of Titanium dioxide nanoparticles for photocatalytic applications, K. Manikandan, A. J. Ahamed, A.Thirugnanasundar, G. M. Brahmanandhan, *Digest Journal of Nanomaterials and Biostructures*, **10(4)**, 2015, 1427 – 1437.

## 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 *Emblica 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 36<sup>th</sup> 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 35<sup>th</sup> 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, Tiruchi – 20, March 9<sup>th</sup>, 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<sup>II</sup> 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, Tiruchi – 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 13<sup>th</sup> 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 **4<sup>th</sup> 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 **5<sup>th</sup> 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)<sub>3</sub> catalyzed new cascade reaction: a facile assembly of fused quinazolinones as TNF- $\alpha$  inhibitors in the 30<sup>th</sup> 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 (Tamil nadu) using hydrochemical 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, 32<sup>nd</sup> Annual Conference of Indian Council of Chemists, Department of Studies in Chemistry, Karnatak University, Dharwad-580 003, 28-30, December 2013.
  - 60) Studies on adsorption mechanism of malachite green dye onto acid activated carbon, 32<sup>nd</sup> Annual Conference of Indian Council of Chemists, Department of Studies in Chemistry, Karnatak 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 CeO<sub>2</sub> 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, 33<sup>rd</sup> 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, Tamil nadu, 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), 17<sup>th</sup> 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), 17<sup>th</sup> 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), 17<sup>th</sup> 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), 17<sup>th</sup> 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), 17<sup>th</sup> 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), 17<sup>th</sup> 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), 17<sup>th</sup> 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, 28-30<sup>th</sup> December, 2015.

## 16. 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, Tiruchi 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 Photocatalysis 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.

## 17. Seminars / Conferences / Workshops Organized:

### Member of the Organizing Committee for:

- 1) National Symposium on Recent Trends in Heterocyclic Chemistry at Jamal Mohamed College, Tiruchi – 20, Sep 24-25, 2004.
- 2) State level Seminar on Emerging Trends in Chemistry at Jamal Mohamed College, Tiruchi – 20, March 09, 2006.
- 3) Seminar on Advanced Topics in Chemistry at Jamal Mohamed College, Tiruchi – 20, March 13-14, 2007.
- 4) State level Seminar on Frontier Studies in Chemistry at Jamal Mohamed College, Tiruchi – 20, February 09-10, 2010.
- 5) National Advisory Committee Member, National Conference on New Renaissance in Chemical Research (NCNRCCR-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](http://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-2015), Jamal Mohamed College, 17<sup>th</sup> December 2015.

## **18. 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.

## **19. 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. Nature and Environment, N & H Publishers, In Press.
4. Editor-in-Chief, Proceedings of the International Conference on Chemical and Environmental Research, (ICCER-2014), Jamal Mohamed College, 11-12, March 2014.

## **20. 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, Tiruchi, November 2009.

## **21. Administrative Positions Held:**

1. Additional Chief Superintendent, Distance Education, Bharathidasan University, 2003-2006.
2. Camp Officer, Central Valuation Centre, Jamal Mohamed College, 2000-2002.

## **22. In-charge / Membership in Committees for Autonomous Programme Implementation:**

1. Member, **Library Committee**, 2008-11
2. **Counselor** for UG Chemistry students, 2001 - 2004 & 2011- Till date
3. Member, Entrepreneurship Development Cell, 2012-2014
4. Member, Grievance Cell, 2012-2014
5. Secretary, **JMC Staff Association**, 2015-2017
6. Counselor for PG Chemistry students, 2015- Till date

### **23. 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.**

### **24. Participation in Consultancy, Training, Development etc. :**

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

### **25. Membership in Academic Bodies**

1. Member, **Board of Studies** of Chemistry Department, Jamal Mohamed College (Autonomous), Tiruchirappalli
2. Examiner, **PG Valuation Board**, Bharathidasan University, Tiruchirappalli
3. Examiner, **PG Valuation Board**, Periyar University, Salem, Examiner, **PG Valuation Board**, Many Autonomous Colleges
4. Member, **Board of Studies** of Chemistry Department, H.H. Raja's College (Autonomous), Pudukkottai
5. **Doctoral Committee Member** for more than 20 Ph. D. Scholars of various Colleges of Bharathidasan University
6. Recognized **Guide** for M.Phil. and Ph.D. of PRIST University (Deemed), Thanjavur
7. **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).
8. **Bharathidasan University Representative, Board of Studies of Chemistry**
9. **Department, Periyar EVR College (Autonomous), 2014-2016, Tiruchirappalli**
10. **National Editorial Advisory Board Member:**
  1. Chemical Science Transaction
  2. Journal of Environmental Nanotechnology
11. **Ph.D., Thesis Evaluator:**
  1. **Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra.**
  2. **University of Mumbai, Mumbai, Maharashtra.**

### **26. 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 (FIAC), Mumbai
4. **Member**, International Scientific Academy of Engineering & Technology.