

Faculty Profile



Name : Dr.M.SUJATHA
Designation : Associate Professor
Address : Department of Chemistry

Chikkanna Government Arts College
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Date of Joining in Collegiate Education : 28.02.2011

Date of Joining in the Present College : 10.08.2012

Academic Profile :

Degree	Institute/College	University	Period
B.Sc.,Chemistry	Vellalar College for Women, Thindal	Bharathiar University	1994
M.Sc.,Chemistry	Sri Saradha College for Women, Salem	University of Madras	1996
M.Phil	Erode Arts College, Erode	Bharathiar University	1999
Ph.D.,	PSG College of Arts and Science College, Coimbatore	Bharathiar University	2009

Teaching Experience :

- i) **Total** : 27 Years
ii) **UG** : 27 Years
iii) **PG** : 12 Years
iv)

Name of the college	Position held	Period
Nandha College of Paramedical Sciences, Perundurai	Lecturer	17.05.1996 - 15.09.1999

Nandha Polytechnic,Perundurai	Lecturer	16.09.1999 - 04.06.2001
Nandha Arts & Science College, Perundurai	Lecturer	10.07.2002 - 13.07.2004
Erode Sengunthar Engineering College,Thudupathi	Lecturer	14.07.2004 - 31.05.2005
Kongu Engineering College, Perundurai	Assistant Professor (SG)	06.06.2005 – 26.02.2011
NKR Govt. Arts College for Women, Namakkal	Assistant Professor	28.02.2011 – 10.08.2012 FN
Chikkanna Govt. Arts College, Tiruppur	Assistant Professor	10.08.2012 AN – 01.03.2015
Chikkanna Govt. Arts College, Tiruppur	Assistant Professor (Senior Scale)	02.03.2015 – 01.03.2020
Chikkanna Govt. Arts College, Tiruppur	Assistant Professor (Selection Grade)	02.03.2020– 01.03.2023
Chikkanna Govt. Arts College, Tiruppur	Associate Professor	02.03.2023– Till Now

Honors and Research Awards

UG - Bharathiar University **II rank**

PG - I class with **distinction**

PhD - **Highly commended**

- Received **best paper presentation** award on “Studies on metal-organic complexes of Zirconium(IV) containing piperidin-4-one thiosemicarbazones” in National seminar held at Vivekanandha College of Arts and Sciences for Women, Tiruchengode.
- Delivered a speech on “**Health issues**” in **Kongu FM** at kongu Engineering College, Perundurai during 2010.
- Received **best faculty award** in Kongu Engineering College, Perundurai during the year 2010.
- Received **best poster presentation** award on “Recent trends in effluent treatment using polymer nanocomposite hydrogels”, State level seminar in Chikkanna Government Arts College, Tirupur.

Field of Interest

- i) **Teaching** : Inorganic Chemistry& Physical Chemistry
- ii) **Research** : Co-ordination Chemistry
- iii) **Proficiency in instrumentation** : Physical Chemistry instruments

Research Guidance**Guidance Number**: Bharathiar university
M.Phil - 19860/A2/2014
PhD - 6002/A2/2017

(If have more than one university, given them against university name)

S. No	M.Phil/Ph.D	Name of the Student	Thesis Title	Completed/ongoing
1	M.Phil	A.Ramkumar	Synthesis, spectral characterization, DNA interaction and in vitro cytotoxicity studies of copper(II), cobalt(II) complexes containing monobasic bidentate schiff base ligands”	Completed
2	M.Phil	S.Gayathri	Preparation and characterisation of meso porous three dimensional graphitized carbon foam using multi- walled carbon nanotube derived from methyl ester of <i>jatropha curcas oil</i>	Completed

Funded Projects : Nil**Membership in Professional Bodies** :

S. No	Name of the Professional Body	Membership Detail with Number
	NIL	

Research Publications :

- i) **Research Papers** : Attach paper list - with doi and http link of the Paper (Annexure – I)
- ii) **Book/Book Chapters** : Details with ISBN number
- iii) **Patent** :

National and International Conferences : Attach separate list (Annexure – II)

- i) **Participated**
- ii) **Paper Presented**
- iii) **Poster Presented**

Conference/Seminars Organized :

1. **DRDO sponsored National workshop** on “Recent Trends in Applications of Nanoscience in corrosion Control”- 2010 at Kongu Engineering College, Perundurai.

2. Organising member – **CSIR sponsored National conference** on “*Recent Applications of nanomaterials in Chemistry and Environmental Research*”- 2011 at Kongu Engineering College, Perundurai.
3. Organized **National Webminar** on “*Polymers- A century of Advancement*”- on 21.7.20 at Chikkanna Government Arts College, Tirupur.
4. Organising member in **National Webminar** on “*Advanced carbon materials for energy storage*” on 25.7.20 at Chikkanna Government Arts College, Tirupur.
5. Organising member in **National Webminar** on “*Exciting photo chemistry*” on 31.7.20 at Chikkanna Government Arts College, Tirupur
6. Organising member in **National Webminar** on “*Orientation programme for CSIR-UGC NET Aspirants*” on 23.7.20 at Chikkanna Government Arts College, Tirupur
7. Organising member in **National Webminar** on “*Non precious metal complexes for sustainable catalysis, optoelectronic and biology application*” on 29.7.20 at Chikkanna Government Arts College, Tirupur
8. Organized **TNSCST sponsored National Seminar** on “*Anti-cancer drugs from Nano composite materials*”- on 9.4.21 at Chikkanna Government Arts College, Tirupur.

Workshop attended

: 02

Resource Person/Invited Lectures

1. Delivered a speech on “**Health issues**” in **Kongu FM** at kongu Engineering College, Perundurai during 2010.
2. Acted as chief guest and delivered a speech in Vellalar college for women, Thindal on ‘**Processing techniques of plastics and its impacts on environment**’ during 9.10.2018 in Association Inaugural function.
3. Acted as **Chief Guest and Resource person, delivered a talk** in Nirmala College for women, Coimbatore on “**Drowning of Planet in Plastic pollution**” during 7.6.2021 in **Webminar**.
4. **Resource person** and delivered lecture on “**Environmental impact of polymers**” in international seminar in SNS College of Technology, Coimbatore on 28.8.21.

Faculty Development Programs Attended :

Course	University/Institute	Subject	Period
Orientation course	University of Madras	Chemistry	4.5.11-2.6.11
Refresher course	UGC Academic College/ Bharathiar University, Coimbatore	Chemistry	6.11.14 - 26.11.14
Refresher course	UGC Academic College/ Bharathiar University, Coimbatore	Chemistry	4.7.18-24.7.18
Refresher Course	Academic Staff College, Bharathiar University, Coimbatore	Environmental Science	6.2.20-19.2.20 (14 Days)
Refresher Course	Ramanujan college Delhi	Research Methodology	22-9.22-6.10.22 (14 Days)

Academic Activities :**i) Subject Handled**

Theory: Engineering Chemistry, Applied Chemistry, Environmental science, Environmental Chemistry, Pharmaceutical Chemistry, Allied Chemistry, General Chemistry, Physical Chemistry, Inorganic Chemistry, Water Chemistry, Dye Chemistry, Polymer Chemistry & Organic Synthetic methodology.

Practicals : UG: Allied Chemistry lab, Applied Chemistry lab, Pharmaceutical Chemistry lab, Physical and gravimetric Analysis.

PG: Physical Chemistry experiments

ii) Class Advisor :

2005 -2011 Incharge for I BE/B.Tech Mechanical, ECE, IT,CSE.

2013 -2015 Incharge for I & II MSc,

2015-2018 Incharge for I, II, III BSc.

2021-2023 Incharge for I,II MSc

iii) Special Coaching :

- Initiatives under taken to develop below averages, conducted several special classes and coaching.
- Taken remedial classes for SC/ST students during 2013.

iv) Student Community Beneficial Activities :

- Encourage students to create environmental awareness among the people about global warming, rain water harvesting, blood donation, etc.
- Counseling the student in pursuing higher education and helping in reference of books for study material.

v) Co-curricular and extra curricular activities :

- Maintaining tree plantation near Chemistry Department.
- Acted as a team member (at the Dept level) in NAAC .
- Acted as IQAC member.
- Involved in various committees during NAAC visit

Professional Activities

i) Reviewer : Nil

ii) Board of Studies/UR :

Board of Studies Member in

i) Kongu Engineering College, Perundurai during 2010-11

ii) Vellalar Arts and science College, Thindal during 2018-19

iii) PG board at Bharathiar University, Coimbatore during 2022-23.

iii) Examiner/Scrutiny : Examiner for practical Examination & Paper valuation.

iv) Senate/Syndicate : Nil

National/ International Collaborators : Nil

Annexure – I

Publications

1. “Assessment of ground water quality in & around Gobichettipalayam Town, Erode (DT), Tamilnadu”, International E-Journal of Chemistry, Vol 4, No:3, July 2007.- <http://dx.doi.org/10.1155/2007/547380>
2. “Assessment of underground water contamination and effect of textile effluents on nooyal river basin in & around Tiruppur town, Tamilnadu”, International E- Journal of Chemistry, Vol5, No:4, October 2008. [ISSN: 0973-4945; CODEN ECJHAO E-Journal of Chemistry http://www.e-journals.net](http://www.e-journals.net) Vol. 5, No.4, pp. 696-705, October 2008
3. “Ortho-Phosphoric acid Activated Babul Seed Carbon as an adsorbent for the removal of Methylene Blue”, International E-Journal of Chemistry, Vol 5, No:4, October 2008. <http://dx.doi.org/10.1155/2008/418267>
4. “Adsorption of Acid Blue from an aqueous Solution onto activated Areca Nut Shell Carbon: Equilibrium, Kinetic and Thermodynamic Studies”, International journal of Chemistry and Environment, Vol 13, No:1, 52-58, Mar 2009. **(Impact Factor:0.292)**
5. “Adsorption of Cr(VI) and Pb(II) from aqueous solution using agricultural solid waste”, International Journal of Environmental science and Engineering, Vol 4, 51(2) pp 151-156, 2009. <https://www.ncbi.nlm.nih.gov/pubmed/21114170>
6. “Cyclic voltammetric studies on metal organic complexes containing piperin-4-one thiosemicarbazone”, International journal of Research in Science, Vol11, No:1, June 2014.
7. “Synthesis and Characterization of Multi-walled Carbon Nanotube from Pine Oil and Their Impact on Carbon Fibre Reinforced Epoxy Hybrid Nanocomposite” , J. Environ. Nanotechnol., Volume 10, No. 2 (2021) pp. 10-15 <https://doi.org/10.13074/jent.2021.06.212437>
8. “Meso Porous 3D Carbon Foam using Multi-Walled Carbon Nanotubes from Methyl Ester of Jatropha Curcas Oil”, J. Environ. Nanotechnol., Volume 10, No. 1. pp. 01-07 [doi:10.13074/jent.2021.03.211428](https://doi.org/10.13074/jent.2021.03.211428)

Annexure – II

National and International Conferences

Papers Presented

1. “Oxidation of Thiosemicarbazones by acid bromate medium”, National Conference, Acharya Nagarajuna University, Guntur, Andhra Pradesh.
2. “Synthesis of N-Ethyl-n-Sulfobutyl-3-Methoxy p-Phenylene diaminesesquisulphate Monohydrate- A Color Developing Agent”, National Seminar, Annamalai University, Chidambaram.
3. “Electrochemical coagulation of dye Effluent”, National conference, JJ College of Engineering & Technology, Trichy.
4. “Decolourisation of Water/Waste water using Azartica indica as a Biosorbent”, National Conference, JJ College of Engineering & Technology, Trichy.
5. “Children & Education”, National Seminar, Vellalar College for women, Thindal, Erode.
6. “Environmental Ethics”, National Seminar, Vellalar College for women, Thindal, Erode.
7. “Dye Effluent Treatment by Electrochemical Coagulation -A Novel Method”, National Conference, Mahatma Institute of applied Sciences, Jaipur.
8. "Adsorption of acid blue from aqueous solution onto areca nut shell carbon: equilibrium, kinetics & thermodynamic studies”, National Conference, Mahatma Institute of applied Sciences, Jaipur.
9. “Bio-adsorption of Cr(VI) and Pb(II) from Aqueous Solution using agricultural solid waste”, International Conference, Kongu Engineering College, Perundurai.
10. “Ortho-Phosphoric Acid Activated Babul Seed Carbon as ad Adsorbent for the Removal of Methylene Blue”, International Conference, Kongu Engineering College, Perundurai.
11. “Fixed Bed Column Studies for the Removal of Rhodamine-B on Areca Nut Shell Waste”, International Conference, Kongu Engineering College, Perundurai.
12. “Studies on metalorganic complexes of oxovanadium(IV) containing piperidin-4-one thiosemicarbazones” National Conference, Periyar University, Salem.
13. “Assessment of underground water quality in coimbatore city, Tamilnadu”, National Conference, Annamalai University, Chidambaram.
14. "Studies on metalorganic complexes of cerium(III) containing piperidin-4-one thiosemicarbazones”, International Conference, Bharathiar University, Coimbatore.

15. "Studies on metal-organic complexes of Zirconium(IV) containing piperidin-4-one thiosemicarbazones", National Seminar, Vivekanandha College of Arts and Sciences for Women, Tiruchengode.
16. "Cyclic Voltammetric studies on metal-organic complexes containing piperidin-4-one thiosemicarbazones", National Conference, Gandhigram Rural Institute, Dindigul.
17. "Studies on metal-organic complexes of Oxozirconium(IV) chloride containing piperidin-4-one thiosemicarbazones", National Conference, Bharathiar University, Coimbatore.
18. "Studies on metal-organic complexes of thorium(IV) nitrate containing piperidin-4-one thiosemicarbazones", National Conference, Tejaa Shakthi Institute of Technology for Women, Coimbatore.
19. "Adsorption of direct dye from aqueous solution in textile waste water using activated carbon prepared from *Jatropha curcas* stem waste", National seminar, Cardamom Planters Association College, Bodinayakanur.
20. "Recent trends in effluent treatment using polymer nanocomposite hydrogels", state level seminar in Chikkanna Government Arts College, Tirupur.
21. "Removal of basic dye using poly(methacrylic acid) hydrogels", National seminar in GVG Vishalakshi College for Women, Udumalai.
22. "Synthesis, characterisation and biological activities of new schiff base ligand with metal complexes from 2-amino-4-methoxy-6-methyl pyrimidine and salicylaldehyde", National conference in Dr.N.G.P Institute of Technology, Coimbatore.
23. "Preparation and characterisation of meso porous three dimensional graphitized carbon foam using multi walled carbon nano tube derived from methyl ester of *Jatropha Curcas* oil", National seminar in Chikkanna Government Arts College, Tirupur.
24. "Synthesis and characterization of multi walled carbon nano tube from pine oil and their impact on carbon fibre reinforced epoxy hybrid nano composite", National seminar in Chikkanna Government Arts College, Tirupur.
25. "Studies on metal-organic complexes of dioxouranium nitrate (vi) containing piperidin-4-one thiosemicarbazones", International conference in Kongu Engineering College, Perundurai.
26. "Dye removal efficiency of polymer composite-a comparative study", International conference in Kongu Engineering College, Perundurai.

27. "Studies on metal-organic complexes of dioxouranium acetate (VI) containing piperidin-4-one thiosemicarbazones", National Conference in Vellalar College for women, Thindal, Erode

Poster presentation - 05

1. "Cyclic Voltammetric studies on metal-organic complexes containing piperidin-4-one thiosemicarbazones", National Conference, Gandhigram Rural Institute, Dindigul.
2. "Removal of basic dye using poly (methacrylic acid) hydrogels", National seminar in GVG Vishalakshi College for Women, Udumalai.
3. "Recent trends in effluent treatment using polymer nanocomposite hydrogels", state level Seminar in Chikkanna Government Arts College, Tirupur.
4. "Preparation and characterisation of meso porous three dimensional graphitized carbon foam using multi walled carbon nano tube derived from methyl ester of Jatropha Curcas oil", National seminar in Chikkanna Government Arts College, Tirupur.
5. "Synthesis and characterization of multi walled carbon nano tube from pine oil and their impact on carbon fibre reinforced epoxy hybrid nano composite", National seminar in Chikkanna Government Arts College, Tirupur.

Participated

S.No	Participated	Title of the Seminars/Conferences//Symposium	National / International	Organizer	Period
1.	Participated	Energy of the future	National Seminar	Chemical Engineering Department KEC	20.8.05
2.	Participated	"Modern trends in English language, teaching & learning industry institute perspectives"	National conference	Kongu Engineering College Perundurai	6.02.09 – 7.02.09
3.	Participated	"corrosion & corrosion control"	National seminar	Mepco Schlenk Engineering College, Sivakasi	30.7.09- 31.7.09

4.	Participated	Sixth international congress on English Grammar	International conference	Kongu Engineering College, Perundurai	KEC
5.	Participated	Resource extraction and Energy Consumption	State level symposium	Kongu Engineering College, Perundurai	31.07.10
6.	Participated	Advances in Chemistry	Lecture programme	PSGR Krishnammal College for women, Coimbatore	7.10.10 -8.10.10
7.	Participated	Recent Applications of nano materials in Chemistry and Environmental Research	National conference	Kongu Engineering College Perundurai	18.2.11- 19.2.11
8.	Participated	Applications of polymer Nano composite materials in various fields	National Seminar	Kongu Engineering College Perundurai	16.7.11
9.	Participated	Emerging trends in Life science	International seminar	Navarasam Arts and Science College for Women, Arachalur	18.8.11
10	Participated	New advances in Nanochemistry: a chemical approach to Nanomaterials	National Seminar	Kongu Engineering College Perundurai	17.3.12
11	Participated	Recent Applications of Nano materials in Chemistry and Environmental Research	National Conference	Kongu Engineering College Perundurai	20.7.12 - 21.7.12

12	Participated	Futuristic applications of chemistry invincible for society	UGC National seminar	Vellalar College for Women, Thindal	5.03.14
13	Participated	Breakpoints	IQAC seminar	Chikkanna Government Arts College, Tirupur	10.1.15

Workshop attended : 3

1.	Participated	Recent Trends in Applications of Nanoscience in corrosion Control	National workshop	Kongu Engineering College, Perundurai	20.11.10
2.	Participated	Teaching learning and evaluation	UGC Workshop	NKR Govt Arts College for Women, Namakkal	9.2.12
3.	Participated	Breakpoints	IQAC Workshop	Chikkanna Government Arts College, Tirupur	25.3.23