

## JAMAL MOHAMED COLLEGE

(Autonomous) Tiruchirappalli - 620 020.

Accredited with 'A++Grade by NAAC (4th cycle)with CGPA 3.69 out of 4.0

Affiliated to BharathidasanUniversity

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### RESUME

- 1. Name:** Dr. A. ASRAR AHAMED
- 2. Designation:** Assistant Professor
- 3. Qualification:** M.Sc., M.Phil., PGDCA, Ph.D
- 4. Date of birth:** 10.08.1987
- 5. Address Office:** P.G & Research Department of Chemistry,  
Jamal Mohamed College (Autonomous),  
Tiruchirappalli - 620 020,  
Tamil Nadu, India.  
Email: [asrar@jmc.edu](mailto:asrar@jmc.edu)  
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- Residential** : No - 9/16, Arabic College Street Khaja Nagar  
Trichy- 620020.  
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### 6. Educational Qualifications:

| S.No. | Qualification       | University / College   | Year of Passing |
|-------|---------------------|--|-----------------|
| 1.    | B.Sc. (Chemistry)   | Jamal Mohamed College, (Autonomous)<br>Bharathidasan University, Trichy. | 2007            |
| 2.    | M.Sc. (Chemistry)   | Jamal Mohamed College, (Autonomous)<br>Bharathidasan University, Trichy. | 2009            |
| 3.    | M.Phil. (Chemistry) | Jamal Mohamed College, (Autonomous)<br>Bharathidasan University, Trichy. | 2010            |
| 4.    | PGDCA               | Bharathiar University, Coimbatore.                                       | 2012            |
| 5.    | Ph.D (Chemistry)    | Jamal Mohamed College, (Autonomous)<br>Bharathidasan University, Trichy. | 2018            |

**7. Experience:**

**Undergraduate** : 12 Years 9 Months  
**Postgraduate** : 12 Years 9 Months  
**M.Phil** : 03 Years

**8. Areas of Specialization:**

**Synthetic** Organic Chemistry,  
Insilico Studies and Domestic Product Preparations

**9. Languages known:**

Tamil, English & Urdu

**10. Subjects Taught:**

Under Graduate : 1. Inorganic Chemistry  
2. Organic Chemistry  
3. Applied Chemistry  
4. Computer applications in chemistry  
5. Hands-on Training for Domestic Product Preparation

Postgraduate : 1. Physical Chemistry  
2. Pharmaceutical Chemistry  
3. Organic Spectroscopy

**11. Research Metrics:**

**No. of reputed publications = 25**  
**h-index = 2**  
**Citations = 12**  
**orcid = 0000-0003-1729-9160**  
**scopus id = 36598001400**

**12. Book Published:**

**Title of the Book** : Inorganic Chemistry as a First Author,  
Infinite Researcher, ISBN 978-81-96512-8-2

**13. Patent Published/Granted:**

|                                    |   |
|------------------------------------|---|
| <b>Title of the Patent</b>         | : Identification of Anticancer Potential compound from Polyherbal Formulation and their Molecular Docking Analysis ( <b>Published</b> ) |
| <b>Date and Application number</b> | : 10-02-2023 and (202341008639)   |
| <b>Date of Publishing</b>          | : 17-02-2023  |
| <b>Title of the Patent</b>         | : Lead Toxicity Detector and Water Cleaning Machine ( <b>Design Patent - Granted</b> )  |
| <b>Date and Design number</b>      | : 07-03-2024 and (409502-001)   |
| <b>Date of Publishing:</b>         | : 10-05-2024  |

#### 14. Major / Minor Research Projects awarded:

| S.No. | Type of Research Project (Minor/Major) | Project Title  | Name of the Funding Agency  | Amount Sanctioned (Rs) | Duration of the Project |
|-------|--|--|---|------------------------|-------------------------|
| 1     | Student Project Scheme - 2022          | Evaluation of Novel Piperonal Heterocycles Towards Anti-Diabetic Drug Activity and Detection on the Anti-Viral Solution to Covid-19  | TNSCST  | 7,500                  | 6 Months Completed      |
| 2     | Seed Money project (JMC) - 2022        | Synthesis and evaluation of piperonal heterocycles towards anti diabetic and viral Covid -19 using insilico pharmacological studies  | Jamal Innovation and Incubation Centre Research Project Scheme (JIIC) | 10,000                 | 1 year Completed        |
| 3.    | Student Project Scheme - 2023          | Spatio-Seasonal Variation with the influence of meteorological factors and associated with human health risks of ambient air PM <sub>2.5</sub> ion concentration in Trichy City, Tamilnadu | TNSCST  | 7,500                  | 6 Months Completed      |

#### 15. Administrative positions:

- Acting as an **Additional Chief- Superintendent for Autonomous Examination** from 15-07-2022.
- Acting as **supporting staff** for data collection to **Criterion-II for NACC fourth Cycle Preparation.**
- Acting as **CIA test in charge** from **2016** till date.
- Acted as an **Incharge for Deeniyath Essay Writing Competition** for 2022.
- Acted as an Organizing Secretary in an "**JAMAL CHEM ALUMNI MEET-2023**" Organized by the PG and Research Department of Chemistry, Jamal Mohamed College (A), Tiruchirappalli-20 on **11<sup>th</sup> March, 2023.**
- Acted as a **Vice-President** of Chemistry Association in Department of Chemistry (SF) during 2021-2023.
- Acted as an **Organizing Secretary** in the Intra collegiate Extravaganza "**JAM CHEM FEST - 2K23**" organized by the PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 14<sup>th</sup> March, 2023.
- Acted as a **Member of Curriculum Development Cell**, PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli from 2013 to 2023.
- Acted as an **Organizing Secretary** in an Online National Level Intercollegiate Fest "**JAM CHEM FEST- 2K22**" Organized by the PG and Research Department of Chemistry, Jamal Mohamed College (A), Tiruchirappalli-20 on 25<sup>th</sup> May, 2022.

- Acted as an Organizing Secretary in the Intra collegiate Extravaganza “ChemFiesta’ 2022” organized by the Department of Chemistry (SF), Jamal Mohamed College (Autonomous), Tiruchirappalli on 15<sup>th</sup> and 16<sup>th</sup> March 2022.
- Acted as an **Organizing Secretary** in the National Level Webinar on “Drug Delivery”, organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli, on 6<sup>th</sup> July 2021.
- Acted as a **Co-convener** in the **5th International Conference on Chemical and Environmental Research (ICCER-2020)**, organized by the PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli, Tamilnadu on 08th January 2020.
- Acted as a **ERP Incharge** from 2020-2022.
- Acting as Department **NIRF Incharge** from 2020.
- Acting as Department **Internship** and **MOU incharge** from 2020.
- Acted as an **Editorial Member** in **NCRDC-2018** and **ICCER-2020** conference conducted by Department of Chemistry, JMC, Trichy.
- Acted as an **EC Member of Staff Association** from 2017-2019.
- **Handled IR instrument** as a staff incharge from 2011-2016.
- Member of **question setting and valuation board** in Jamal Mohamed College, Trichy and Bharathidasan University, Tiruchirappalli from 2015.
- Served as a **Sub-Warden** in **Khajamian Hostel**, Jamal Mohamed College (Autonomous), from 12.10.2010 – 31.05.2014.
- Served as a **Full time Sub- Warden in Khajamian Hostel**, Jamal Mohamed College (Autonomous), from 15.05.2010 – 11.10.2010.

#### 16. Membership Awarded:

- ✚ **Awarded life time membership in IA ENG International association of Engineers on October – 2023.**

#### 17. Details of Publications:

1. Kumar KN, Reddy GA, Sattar SA, Jafri RI, Premkumar R, Muthukrishnan M, **Ahamed AA**, Meera MR, Prakash NG, Tighezza AM, Ko TJ. Effect of Oxygen Flow Rate, Post-annealing Temperature, and Different Electrolyte Concentrations on WO<sub>3</sub> Thin Films Deposited by DC Magnetron Sputtering For Electrochromic Applications. Journal of Electronic Materials. 2024 May;53(5):2351-66 (Impact Factor: 2.1)
2. Marimuthu P, Ramu A, Venkatesh N, **Ahamed AA**, Venkatesan G, Chinnathambi A, Kandasamy S. Design and synthesis of simple quinoline-based organic molecules as dual/multifunctional chemosensors for the detection of Cu<sup>2+</sup>/Fe<sup>3+</sup> ions. Journal of Molecular Structure. 2024 Sep 15;1312:138530. (Impact Factor: 3.8)
3. Subramaniam S, Roy A, Vivekanandan KE, **Ahamed AA**, Bharathiraja C, Kumarasamy S, Raja R, AlSalhi MS, Narayanan M. An investigation on antidiabetic competence of Ferula assafoetida mediated AgNPs on diabetic (STZ) induced albino rats. Biocatalysis and Agricultural Biotechnology. 2024 Feb 2:103043 (Impact Factor: 4.0)
4. K.Naveen Kumar, Sheik Abdul Sattar, G.V.Ashok Reddy, R.Imran Jafri, R.Premkumar, M.R.Meera, **A.Asrar Ahmed**, M.Muthukrishnan, Merum Dhananjaya, and Ammar M.Tighezza, Structural, optical and electrochromic properties of RT and annealed sputtered tungsten trioxide(wo<sub>3</sub>) thin films for electrochromic applications by using GLAD technique, J Mater Sci: Mater Electron, (2023) 34:1934. (Impact Factor: 2.7)

5. M.Mohamed Mahroop Raja, N. Reehana, **A.Asrar Ahamed**, A.Fasila Begum, Characterization of bioactive compound isolated from *Micromonospora marina* KPMSI and its activity against emerging antibiotics resistant strains of *Klebsiella pneumoniae* HAUT17 and *Proteus vulgaris* HAUT114, *International Journal of Biological Macromolecules*, Volume 250, October 2023, 125954 <https://doi.org/10.1016/j.ijbiomac.2023.125954>. (Impact Factor: 8.2)
6. I.Rama,A. Subashini, M.Nadhiya, V.Ragavendran, N.Kanagathara, **A.Asrar Ahamed**, Synthesis, spectral characterisation, SC-XRD, Hirshfeld, DFT and in silico antidiabetic activity of novel imine (E)-N-(2-nitrobenzylidene) naphthalene-I-amine, a newly synthesised imine: A theoretical and experimental evaluation, *Journal of Molecular Structure*, Volume 1292, 15, November 2023, 136084, <https://doi.org/10.1016/j.molstruc.2023.136084> (Impact Factor: 3.8)
7. Dr.H.V.Jayaprakash, **Dr.A.Asrar Ahamed**, Dr.P.V.Krupakara, and Dr.R.Kavitha , Studies on potentiodynamic polarization of Aluminium 2014/Albite metal matrix Composite, *European Chemical Bulletin*, 12(8), 1204-1211, 2023.
8. S.Vijaya Bharathi, V.Anuradha, **A.Asrar Ahamed**, M.Syed Ali, Priya Petchimuthu, and R.Govindharaju, Ameliorating Effect of Saponin from *Phoenix pusilla* root on Streptozotocin Induced Diabetic Animal Model, *European Chemical Bulletin*, 12(8), 1144-1166, 2023.
9. Ashwin Prakash Karurkar, Anuradha Venkatraman,Syed Ali Mohammed Yacoob, **Asrar Ahmed**, Mohamed Sihabudeen , Chemically synthesized Schiff base Conjugated Piperonal as Novel Antioxidants and Scavengers of Free Radicals, *Research Journal of Pharmacy and Technology (RJPT)*, 15 (11), 4987-4993, 2022.
10. Jamaludeen, Ahamed Sulthan, Bertotti, Mauro, **Asrar Ahamed**, Jayaraman, Kamalakannan, Abdullah, Groundwater quality assessment of the Cuddalore district, Tamil Nadu, India, using a water quality index method, *Indian Hydrobiology*, 20(1), 00-00, 2021.
11. S.S.Nawab Ali, **A. Asrar Ahamed** and M.Mohamed Sihabudeen, Correlation Analysis of Heavy Metals in Ground Water Quality in and Around Thamirabharani River at Tirunelveli District, Tamilnadu, India, *Strad Research* 7,7,2020. 0039-2049.
12. S.S.Nawab Ali, **Dr. A. Asrar Ahamed**,Dr.M.Mohamed Sihabudeen and Dr.Jamaludeen Ahamed Sulthan , Proximity Water Quality Assessment of River Thamirabarani at Tirunelveli District, Tamilnadu, India, *Tathapi* 19, 40, 2020. 2320-0693, June 2020.
13. Ashwin Prakash Karurkar, V Anuradha, **A.Asrar Ahamed**, M.Mohamed Sihabudeen, and M. Syed Ali, Spectral Characterization and In-Vitro Anti-Inflammatory potential of an EDP Schiff Base, *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 0975-8585, 10(6),99-104, 2019.
14. N.Angamuthu, Jamaludeen Ahamed Sultan, M.Mohamed Sihabudeen, **A.Asrar Ahamed** , Synthesis, Characterization and Structural Diversity in Aminoguanidium salts of Isoelectronic 2 Picolinic acid N-oxide and 3- hydroxypicolinic Acid, *International Journal of Pharmacy and Biological Sciences* 2230-7605, April-2019.
15. Arun Marimuthu, Mohamed Sihabudeen, **Asrar Ahamed.A** , Hariharan .G, PM2.5 Bound Carbon Fractions over Tiruchirappalli city (India) and influence of Meteorological factors, *International Journal of Pharmacy and Biological Sciences* 2230-7605, April 2019.
16. N. Angamuthu, Jamaludeen Ahamed Sulthan, M.Mohamed Sihabudeen, and **A.Asrar Ahamed**, Synthesis, Characterization and Structural Diversity in Aminoguanidium salts of Isoelectronic 2Picolinic acid N-oxide and 3- hydroxypicolinic acid, *International Journal of Pharmacy and Biological Sciences* 2230-7605, April-2019.
17. J.Ahamed Sultan, M.Mohamed Sihabudeen, J.Sirajudeen , and **A.Asrar Ahamed**, Assesment of Microbes present in Ground Water of Cuddalore District, Tamil Nadu, *World Journal of Pharmaceutical Research*, Volume 7, Issue 8, 22-28, 2277-7105, 2018 (Impact Factor: 7.523)
18. **Asrar Ahamed Abdullah** and Mohamed Sihabudeen Mohammed Meera Hussain , Synthesis and evaluation of piperonal chalcone and its derivatives as anti-diabetic agents, *European Journal of Biomedical and Pharmaceutical Sciences*, 2349 - 8870, Volume 5, Issue 2 ,514-518, 2018.

19. Synthesis and biological evaluation of some novel chalcone derivatives as anti-inflammatory agents, World Journal of Pharmaceutical Research, 2456 - 9119, Volume 7, Issue 2, 947-955, 2018.
20. **A.Asrar Ahamed**, M.Mohamed Sihabudeen, Synthesis and biological evaluation of some novel heterocyclic Chalcone Derivatives, Asian Journal of Pharmacy and Pharmacology 2455-2674, 3(6):247-250,2017.
21. C.Murugesan, M.Mohamed Sihabudeen, **A.Asrar Ahamed**,One-pot three component (LaCl<sub>3</sub>.7H<sub>2</sub>O) catalysed biginelli reaction for the synthesis of 1,2,3,4- tetrahydropyrimidine, World Scientific News(WSN), 35, 87-99, 2016.
22. J.Ahamed Sulthan, M.Mohamed Sihabudeen, J.Sirajudeen and **A.Asrar Ahamed** ,Removal of toxic lead metal from waste water by using bio-absorbent, Scientific Transactions in Environment and Technovation, 10(1):6-8, 2016.
23. Ahamed Sulthan J.,Mohamed Sihabudeen M., Sirajudeen J and Asrar Ahamed A ,Variation in Physicochemical Characteristics of ground water quality between Taluks of Cuddalore District, Tamil Nadu, International Journal of Recent Scientific Research,0976-3031 ,Vol.7,Issue,5,pp. 11118-11122,May,2016
24. J.Ahamed Sulthan, M.Mohamed Sihabudeen, J.Sirajudeen, and **A.Asrar Ahamed**, Impact of Heavy Metals on Groundwater of Cuddalore District, Tamil Nadu, International Journal of Nano Corrosion Science and Engineering (IJNCSE), 2(5), 236-244, 2015.
25. J.Ahamed Sulthan, M.Mohamed Sihabudeen, J.Sirajudeen, and **A.Asrar Ahamed**, Physico Chemical Characteristics of Groundwater of Cuddalore District, Tamilnadu, South India, Journal of Chemistry and Chemical Sciences, Vol.5(10), 542-549, October 2015.
26. C.Murugesan, M.Mohamed Sihabudeen, and **A.Asrar Ahamed**, One-pot Synthesis of 3, 4- Tetrahydropyrimidine-5 Carboxylate using Lanthanum (III) Chloride (LaCl<sub>3</sub>.7H<sub>2</sub>O)as a catalyst, World Journal of Pharmaceutical Research, 4(7), 1115-1125, 2015. (Impact Factor: 5.990)
27. C.Murugesan , **A.Asrar Ahamed**, and M.Mohamed Sihabudeen, Synthesis, Characterization and antimicrobial activity of New Mannich Base, Der Chemica Sinica, Pelagia research library, 5(1), 18-21, 2014.
28. M.Mohamed Sihabudeen, **A.Asrar Ahamed**, and R.Ravikumar, Synthesis and Characterization of N-Mannich Bases of Carbazoles, Coromandal Journal of Science, 1(1), 52-54, December 2012.

### 18. Chaired as Resource person:

- ✚ Acted as a Resource person in the **Inaugural function of the Vocational Educational Training (VET) Programme** and delivered a Special Lecture on **Chemistry in Everyday Life**, organized by the PG and Research Department of Chemistry, Khadir Mohideen College, Adirampatinam on **09.10.2023**
- ✚ Acted as a **Chairperson for Oral Presentation** in an**International Conference** on "**Recent Innovations in Chemical Sciences (ICRICS '22)**" on **29-09-2023**, organized by the Department of Chemistry, Sona College of Arts and Science, Salem, Tamil Nadu
- ✚ Acted as a Resource person in **One Day National Conference on "Emerging Innovations in Chemistry (NCEIC-2K23)"** on "**Moder Drug Design**" on **11-09-2023** organized by the Department of Chemistry, Paavendhar College of Arts and Science, Thalaivasal, Salem, Tamil Nadu
- ✚ Acted as a Resource person in the **3rd International Conference on Research Methodology in Medical and Nanobiotechnology (RMMN-2K23)** on "**In-Silico Studies in Current Scenario**" on **31-03-2023** organized by organized by the PG and Research Department of Microbiology, Idhaya College for Women, Kumbakonam, Tamil Nadu

- ✚ Acted as a Resource person in Dr. Sr. Y. Yesu Thangam's Endowment Lecture Series on **“Drug Designing and Computational Studies”** on **03-03-2023** organized by the PG and Research Department of Chemistry, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Tamil Nadu
- ✚ Acted as a Resource person in the **International Conference on Materials and Biological Researches (ICMBR-2023)** on **“Role of Cheminformatics in Drug Design”** on **02-03- 2023** organized by the Department of Chemistry, Dr.R.K.S.College of Arts and Science, Kallakurichi, Tamil Nadu
- ✚ Acted as a Resource person in the **Seminar** on **“Green Energy for a Green Revolution”** on **11-02-2023** organized by the Department of Science and Humanities, Narasu’s Sarathy Institute of Technology, Poosaripatty, Kadayampatti, Salem, Tamil Nadu
- ✚ Acted as a Resource person in **ICSSR funded One-day Seminar for Farmers** on **“Regeneration of Agricultural Soil Using Organic Products”** on **10-02-2023** organized by the Department of Science and Humanities, Narasu’s Sarathy Institute of Technology, Poosaripatty, Kadayampatti, Salem, Tamil Nadu
- ✚ Acted as a Chairperson for Poster Presentation at a oneDay **National Conference** on **“Recent Advances in Chemistry (RAC '22)”** on **07-11-2022**, organized by the Department of Chemistry, Sona College of Arts and Science, Salem, Tamil Nadu
- ✚ Acted as a Resource person in **One day State Level Seminar** on **“Success Through Chemistry”** on **21-10-2022** organized by the Department of Chemistry, Meenaakshi Ramasamy Arts and Science College, Thathanur, Udayarpalayam, Ariyalur (Dt), Tamil Nadu
- ✚ Acted as a **Judge** in the **“Exhibition on Microbes and Us”** on **27-09-2022** organized by the PG and Research Department of Microbiology, Jamal Mohamed College (Autonomous), Tiruchirappalli.
- ✚ Acted as a Resource person in the **“Young Scientist Programme (YSSP – 2022)”** on **18-05-2022** catalysed and supported by Tamil Nadu State Council for Science and Technology (TNSCST) at Jamal Mohamed College (Autonomous), Tiruchirappalli
- ✚ Acted as a **Judge** in the **“Inter Collegiate Competition Chem fest 2022”** on **04-03-2022** organized by the Department of Chemistry, A.D.M. College for Women, Nagapattinam.
- ✚ Acted as a Resource person in the Awareness Programme and delivered **“Health and Hygiene”** on **17-12-2021** at Union Primary School, Gandhi Nagar, Nagamangalam Panchayath (Adopted Village), Trichy, organized by PG and Research Department of Social Work in Collaboration with UBA Cell, JMC and Nal Ullangal Trust, Trichy.
- ✚ Acted as a Resource person and delivered a special lecture on **“Lab to Land”** on **29-11-2021** at the Department of Chemistry, Sri Vijaya Vidyalaya College of Arts and Science, Nallampalli, Dharmapuri.
- ✚ Acted as a Resource person and delivered training in Three Week Workshops on **“Beat the Competitors in Gate / Net and Competitive Exams WBCE-2020”** from **15-07-2020 to 07-08-2020** at Department of Chemistry, School of Advanced Sciences, Kalasalingam, Academy of Research and Education (Deemed to be University), Krishnankoil, Tamil Nadu.



- ✚ Acted as a Resource person and delivered a Special Lecture on “**Chemistry for Sustainable Environment**” on **14-03-2020** at the Department of Chemistry, K. S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode, Tamil Nadu.
- ✚ Acted as a Resource person and delivered a Special Lecture on “**Recent Developments in Chemistry**” on **04-10-2018** at the Department of Chemistry, Bharathi Women’s Arts and Science College, Thatchur, Kallakurchi, Tamil Nadu
- ✚ Acted as a Resource person and delivered a Special Lecture on “**The objectives of chemistry in today’s Scenario**” on **04-10-2018** at the Department of Chemistry, Dr R.K. Shanmugam Arts and Science College, Kallakurchi, Vilupuram, Tamil Nadu.
- ✚ Acted as a Resource person and delivered a special lecture on “**Quran and Science**” in the Science Exhibition on **20.12.2015** at Bharathi Nursery and Primary School, Pallapatti, Karur (Dt).

### 19. Details of Paper Presentation:

- ✓ Presented a paper in a National seminar on “Recent advances in Chemistry(**NSRAC**)” held at A.V.C.College (Autonomous) Mannampandal, Mayiladuthurai, on 27th & 28th February 2009.

**Title of the Paper:** Synthesis and biological application of imidazole derivatives

- ✓ Presented a paper in State level seminar on “recent advances in chemistry” held at Periyar E.V.R College (Autonomous), Tiruchirappalli-20 on 16th & 17th March, 2009.

**Title of the Paper:** Environmental toxicity studies of bioactive heterocyclic compounds and their characterization

- ✓ Presented a Paper in a National seminar on pioneering areas in chemistry organized by Devanga Arts College Aruppukottai, Virudhunagar (Dt.), on 20th & 21st January 2010.

- ✓ Presented a Paper at the National Conference on “Current Trend in Chemistry Research” (**NCTCR-2013**), Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on February 27<sup>th</sup> & 28<sup>th</sup> 2013.

**Title of the Paper:** “Synthesis and biological study of mannich base derivatives from carbazole”.

- ✓ Presented a Paper in the National Conference on “Current Trend in Chemistry Research” (**NCTCR-2013**), Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on February 27th & 28th 2013.

**Title of the Paper:** Synthesis, Characterisation and antimicrobial activity of 1-[(3-nitrophenyl)(2-phenyl hydra vinyl)methyl]-1-h-benzimidazole.

- ✓ Presented a Paper at in International Conference conducted by Bishop Heber College (Autonomous), Tiruchirappalli on 9th & 10th January 2014.

**Title of the Paper:** Physico-chemical characteristics of groundwater around Cuddalore district, Tamilnadu.



- ✓ Presented a Paper at the International Conference on Chemical and Environmental Research. **(ICCER-2014)**, Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 11th and 12th March 2014.

**Title of the Paper:** Synthesis and antimicrobial activity of some new mannich base derivatives

- ✓ Presented a Paper at the International Conference on Chemical and Environmental Research, **(ICCER-2014)**, Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 11th and 12th March 2014.

**Title of the Paper:** Synthesis, Characterization and biological study of n-[[[4h-1,2,4- triazole-4yl)amino]4-(dimethylamino)phenyl] benzamide.

- ✓ Presented a Paper in the International Conference on **“Chemical and Materials”** organized by the Department of Chemistry, Bharathidasan Institute of Technology BIT campus, Anna University, Tiruchirappalli on 14th & 15th November 2014.

**Title of the Paper:** Variation in physiochemical characters of groundwater quality among taluk of Cuddalore, Tamil Nadu.

- ✓ Presented a Paper in the National Conference of “Current Scenario In Material Chemistry **(CSIMC2015)** Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli from 09th and 10th February 2015.

**Title of the Paper:** Synthesis, Characterisation and Antimicrobial Activity of novel Mannich bases

- ✓ Presented a Paper in the International Conference on Chemical and Environmental Research **(ICCER-2015)**, Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 17th March 2015.

**Title of the Paper:** A fast one-pot multi-component synthesis of Tetrahydroquinazoline in the presence of Lanthanide(III) Chloride as a catalyst.

- ✓ Presented a Paper at the National Seminar on Frontiers in Biosciences **(FIB-2016)**, organized by the PG & Research Department of Biotechnology and Microbiology, Jamal Mohamed College, Tiruchirappalli on 5th March 2016.

**Title of the Paper:** Synthesis, characterization and bio-evaluation of novel chalcones.

- ✓ Presented a Paper at the International Conference on Chemical and Environmental Research **(ICCER-2017)**, Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 07th January 2017.

**Title of the Paper:** Synthesis, Characterisation and Antidiabetic activity of novel chalcones

- ✓ Presented a Paper at the International Conference on Chemical and Environmental Research **(ICCER-2017)**, Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 07th January 2017.

**Title of the Paper:** Synthesis, Characterisation and Antimicrobial studies of Schiff base derived from benzotriazole

- ✓ Presented a Paper at the National Conference on Emerging Trends in Chemical and Biological Science (**ETCBS-2018**), Organized by PG & Research Department of Chemistry,

D.K.M. College for Women (Autonomous), Sainathapuram, Vellore- 632 001 on 05th January 2018.

**Title of the Paper:** Synthesis Characterization and Structural Diversity in Amino guanidium Salts of isoelectronic 2-Picolnic acid N-Oxide and 3-Hydroxypicolinic acid

- ✓ Presented a Paper at the National Conference on “Emerging Trends in Chemical and Biological Science”, Department of Chemistry, D.K.M. College for Women (Autonomous), Sainathapuram, Vellore on 04th January 2019.

**Title of the Paper:** Synthesis Characterization and Structural Diversity in Amino guanidium Salts of isoelectronic 2-Picolinic acid N-Oxide and 3-Hydroxypicolinic acid.

- ✓ Presented a Paper at the International Conference on “Recent Trends in Chemistry”, Department of Chemistry, Dr. R.K.S College of Arts and Science, Kallakurichi on 10th January 2019.

**Title of the Paper:** Synthesis And Bio-Evaluation of Novel 4H-1,2,4-Triazol-4-Amine Derivatives.

- ✓ Presented a Paper in the International Conference on “Emerging Trends in Chemical Sciences (ICETCS-2019)”, Department of Chemistry, Arulmigu Palaniandavar Arts and College for Women, Palani -624615 on 06th September 2019.

**Title of the Paper:** QSAR Analysis and Pharmacodynamic Investigation on Novel Piperonal-Based Chalcone Using Spectroscopy Tools Supported by Quantum Calculations.

- ✓ Presented a Paper in the “International Conference on Chemical and Environmental Research (ICCER-2020)”, Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 08th January 2020.

**Title of the Paper:** Spectral Characterization and In-Vitro Anti-inflammatory Potential of Nitrophenyl derivatives of Chalcones.

- ✓ Presented a Paper at the “International Conference on Innovations in Chemical and Environmental Research (ICICER-2022)”, Organized by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 25th May 2022.

**Title of the Paper:** HOMO-LUMO & MEP Analysis of Novel Piperonal Based Pyrazoline Derivatives towards In-Silico Anti-Viral Drug Activity.

- ✓ Presented a Paper in the International Conference on “Recent Advancements in Therapeutics (ICRAT-2022)”, Organized by the Department of Biochemistry, Shrimati Indira Gandhi College, Tiruchirappalli on 17th August 2022.

**Title of the Paper:** Design and Bio-Potential Evaluation of Novel Piperonal Towards Anti- Diabetic Activity and Detection on the Anti-Viral Solution to COVID-19.

## 20. Participation in Refresher / Orientation Courses:

| S.No | Name of the Programme     | Course Title   | Name of the University  | Duration of the Programme                                   |
|------|---------------------------|--|---|---|
| 1.   | Refresher Course (Online) | Online TWO - WEEK Refresher Course in "CHEMISTRY"  | Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education | 29 <sup>th</sup> November – 13 <sup>th</sup> December, 2022 |
| 2.   |                           | Two-week Interdisciplinary Refresher Course on "Managing Online Classes & Co- creating MOOCS 26.0" | Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of Ministry of Education  | 08 <sup>th</sup> to 22 <sup>nd</sup> May, 2023              |
| 3.   |                           | "Refresher Course on SELECTIVE TOPICS IN ORGANIC CHEMISTRY PHASE – IV"                             | Department of Chemistry, Sathysbama Institute of Science and Technology, Chennai                          | 02 <sup>nd</sup> to 19 <sup>th</sup> August, 2023           |

## 21. Participation in Seminars / Conferences / Workshops:

- ✚ Participated a seminar on "**renewable energy-energy of the future**" held at National College of Engineering, Tirunelveli on 20th August 2005.
- ✚ Participated a seminar on "**Modern Techniques in Chemistry**" held at Jamal Mohamed College (Autonomous), Tiruchirappalli, Tamilnadu on March 5th & 6th, 2008.
- ✚ Participated UGC sponsored State Level Seminar on "**Frontier Studies in Chemistry**" held on February 9th & 10th, 2010, organized by the PG & Research Department of Chemistry at Jamal Mohamed College (Autonomous), Tiruchirappalli, Tamilnadu.
- ✚ Participated UGC sponsored State Level Seminar on "**Recent Trends in Chemical Research (RTCR-2010)**" conducted by the PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli during 5th & 6th October 2010.
- ✚ Attended the Seminar on "**Creating Competitiveness to excel in higher education – a TQM approach**" organized by Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli on 8th December 2010.
- ✚ Participated in the State Level Seminar on "**New Vistas in Chemistry**" (NVS-2012) organized by the PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on the 4th & 5th January 2012.
- ✚ Participated in the one day seminar on "**Teaching, Learning and Research in Higher Education – Excellence and Beyond Excellence**" organized by Internal Quality Assurance Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli on 7th March 2012.

- ✚ Participated in the **“National Chemistry Day Celebrations – 2013”**, on 10th December 2013. organized by the Department of Chemistry, AVVM Sri Pushpam College (Autonomous), Poondi, Sponsored by the Association of Chemistry Teachers Mumbai.
- ✚ Participated in the two-day National Conference **“Indian National Conference on Development in Inorganic Applications (INDIA-2015)”**, organized by the Department of Chemistry, School of Physical Sciences, Periyar University, Periyar Palkali Nagar, Salem on 15th & 16th October 2015.
- ✚ Participated in a one day Inter-Collegiate workshop on **“E-content development for teaching – learning”** jointly organized by the internal quality assurance cell and JMC alumni association Singapore chapter at Jamal Mohamed College, Tiruchirappalli on 22nd December 2015.
- ✚ Participated in the threeDay Lecture-cum-workshop on **“Interpretation of spectral, chromatographic, crystallographic and computational data of chemical systems”** jointly organized by PRIST University and IICPT, Thanjavur, at CRD, PRIST University, Vallam, Thanjavur on on 28th – 30th January 2016.
- ✚ Participated in a One Day RSC-NIT Trichy Symposium on **“Heterogeneous Catalysis and Sustainable Chemistry”** organized by the Department of Chemistry, National Institute of Technology, Tiruchirappalli on 05th November 2017.
- ✚ Participated in a One Day **“Workshop on organic farming production”** organized by the PG & Research Department of Microbiology, Jamal Mohamed College (Autonomous), Tiruchirappalli on 27th and 28th January 2017.
- ✚ Participated in a One Day Science Lecture workshop on **“Thrust areas in biological sciences (BIOTAB-2017)”** organized by the PG and Research Department of Zoology, Seethalakshmi Ramaswami College (Autonomous), Tiruchirappalli on 09th and 10th February 2017.
- ✚ Participated in a One Day National Seminar **“Recent advancements in materials (NLS-RAM: 17)”** organized by the PG & Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli on 15th February 2017.
- ✚ Participated in a One Day National Seminar **“Intellectual Property Rights and Patenting in Life Sciences: Problems and Prospects”** organized by the PG & Research Department of Botany, Jamal Mohamed College (Autonomous), Tiruchirappalli on 01st March 2018.
- ✚ Participated in a One Day Workshop on **“Recent Trends in Chemistry (Transition- 2019)”**, School of Chemistry, Central University Tamil Nadu, Tiruvarur-610005 on 22<sup>nd</sup> February 2019.
- ✚ Participated in a Two Day Workshop on **“Cheminformatics and its application in Research and Drug Industry”**, Department of Chemistry, Seethalakshmi Ramaswami College, Tiruchirappalli - 620002 on 18th and 19th September 2018.
- ✚ Participated in a One Day National Seminar on **“Recent Trends in Chemistry Sciences”**, Department of Chemistry, Periyar E.V.R. College (Autonomous), Tiruchirappalli on 01st March 2019.
- ✚ Participated in a One Day Workshop on **“Writing Winnable Project Proposals”**, organized by the Internal Quality Assurance Cell, Jamal Mohamed College, Tiruchirappalli-20 on 23rd June

2018.

- ✚ Participated in a Day FDP on **“Staff Enrichment Programme on Ownership Culture”** organized by the Internal Quality Assurance Cell, Jamal Mohamed College, Tiruchirappalli-20 on 14th June 2019.
- ✚ Participated in a One Day Workshop on **“Artificial Intelligence in Bioinformatics & Drug Discovery”**, Department of Biotechnology, Mohamed Sathak College of Arts and Science, Chennai-19 on 14th August 2019.
- ✚ Participated in a One-day Workshop and Hands-on Training on **“Quantum Chemical Methods (QCM 2019)”**, Department of Chemistry, Bannari Amman Institute of Technology, Sathyamangalam on 07th September 2019.
- ✚ Participated in a One Day National Seminar on **“Advanced Materials (NSAM - 2020)”**, Department of Physics, Jamal Mohamed College, Tiruchy on 21st Jan 2020.
- ✚ Participated in a One Day National Seminar on **“Emerging Frontiers in Modern Science”**, Department of Physics and Chemistry, Dhanalakshmi Srinivasan College of Arts and Science for Women, Perambalur-621212 on 09th January 2020.
- ✚ Participated in an Orientation programme on **“MOOCs and e-learning”**, organized by the Department of Library, Jamal Mohamed College, Tiruchirappalli-20 on 29th January 2020.
- ✚ Participated in a one-day Inter-Collegiate workshop on **“Intellectual Property Rights and Prior Art Search for Research Development”**, organized by IPR Cell, Jamal Mohamed College, Tiruchirappalli-20 on 05th February 2020.
- ✚ Participated in a day Workshop and Hands-on Training on **“Experimental and Computational Methods in Advanced Material Science (ECMAMS- 2020)”**, Department of Science & Technology, PRIST University, Thanjavur – 613403 on 07th February 2020.
- ✚ Participated in a day Basic Training Programme on ‘Human Rights’, organized by the Department of Social Work, Jamal Mohamed College, Tiruchirappalli-20 on 12th February 2020.
- ✚ Participated in a National level Webinar on **“Present Scenario and Career Perspectives in Aquaculture”** organized by the Department of Zoology, Micheal Job College of Arts and Science for Women, Sulur, Coimbatore-641103 on 04th June 2021.
- ✚ Participated in a One-day National E-Conference on **“The Covid-19 Pandemic’s Impact on the Environment – (CPIE-2021)”** organized by the Department of Zoology and Chemistry of Kai. Rasika Mahavidyalaya, Deoni, Latur and Eco-Need Foundation, Aurangabad, Maharashtra on 05th June 2021.
- ✚ Participated in a National Webinar on **“Essential of Intellectual Property Rights”** organized by the Department of CS and Engineering, SRM TRP Engineering College, Trichy on 10th June 2021.
- ✚ Participated in a One Day International Webinar cum workshop on **“Advanced Research Instrumental Methods in Electrochemistry for Energy Fields”**, organized by the Department of Chemistry, Idhya College for Women, Sarugani & Ananda College, Devakottai on 12th July 2021.
- ✚ Participated in a Knowledge & Information Sharing Session (KISS) on **“Outcome Based**

Education” organized by IQAC and SA Centre for Academics Staff (SACAS), S.A. College of Arts and Science, Chennai on 04th September 2021.

- ✚ Participated in a Webinar on “Novel Electrode Materials for the Sensing of Environmental Pollutants” organized by PG and Research Department of Chemistry, D.K.M College for Women (Autonomous), Vellore on 24th September 2021.
- ✚ Participated in an International Webinar on “Emerging Materials” organized by the Department of Physics, Sethu Institute of Technology, Kariapatti – 626 115, Virudhunagar, Tamilnadu on 23rd February 2022.

### **Strengths and skills**

- ✚ Coordination with the team members for Team performance
- ✚ Research and Evaluation ICT- Teaching
- ✚ Innovative, analytical, motivating capabilities
- ✚ Involvement and dedication
- ✚ Programme planning and Organizing
- ✚ Writing, Presentation and Communication skills