STAFF PROFILE



Name : **Dr. MUJTHABA AATIF A**

Designation : **Assistant Professor,**

Department : **Post Graduate and Research Department of Chemistry,**

Email : **mujthaba.che@cahc.edu.in**

Mobile No. : **+91-8124147935**

1. Educational Details

Degree	Subject	Institution	University	Year
Ph.D.	Chemistry	Vellore Institute of Technology (VIT), Vellore.	Vellore Institute of Technology (Deemed to be University)	2023
PG	General Chemistry	Vellore Institute of Technology (VIT), Vellore.	Vellore Institute of Technology (Deemed to be University)	2018
UG	General Chemistry	C. Abdul Hakeem College, Melvisharam.	Thiruvalluvar University	2014

2. Work Experience

S. No.	Designation	Name of the Institute	From	To
1.	Teaching Cum Research Assistant (TRA)	Vellore Institute of Technology (VIT)	03.12.2018	30.11.2021
2.	Assistant Professor	C. Abdul Hakeem College (Autonomous), Melvisharam	28.11.2023	Till date

3. Professional Recognition/Award/Prize/Certificate/Fellowship received

S. No.	Name of the Award	Awarding Agency	Year
1.	*Raman Research Award*	Vellore Institute of Technology (VIT)	2020 & 2021
2.	*Best Oral Presentation Award*	Gandhigram Rural Institute	2022

4. Professional Development Programme Attended (FDP/FIP/RC/OP/PDP)

S. No.	Name of the Programme	Name of the Organizer	Duration
1.	*NEP (2020) Orientation and Sensitization Programme*	UGC Malaviya Mission Teacher Training Centre (MMTTC), Aligarh Muslim University, Aligarh	20th November 2025 to 28th November 2025
2.	*Faculty Induction Programme (FIP)*	UGC Malaviya Mission Teacher Training Centre (MMTTC), Aligarh Muslim University, Aligarh	28th January 2025 to 25th February 2025

5. Membership of Professional Bodies

Name of the Professional Body	Member Type	Year
Royal Society of Chemistry (**RSC**), Cambridge, UK	Affiliate Member	Since 2020
American Chemical Society (**ACS**), Washington, DC, USA	Community Member	Since 2021

6. Research and Development

Areas of Specialization

- ✓ **Chemical Sensors (Chromogenic & Fluorogenic).**
- ✓ **Synthesis of Novel Schiff's base Probes for Cations and Anions Recognition.**
- ✓ **Cytotoxicity of Probes and their application in Live Cells and Zebrafish.**

6.1. List of Papers published (Name, Title, Journal Name, Volume, Year, Page No) (Link if any)

1. **Mujthaba Aatif A**, Selva Kumar R, S. Abdul Majeed, and S. K. Ashok Kumar*. "A Turn-on Fluorescent Probe for Lu^{3+} Recognition and Bio-Imaging in Live Cells and Zebrafish". ***Analytical Methods***, 2021, ***13*** (2) 212-221. (**I.F= 2.7**). *https://pubs.rsc.org/en/content/articlelanding/2021/ay/d0ay02060e/unauth*
2. **Mujthaba Aatif A** and S. K. Ashok Kumar*. "Dual Anion Colorimetric and Fluorometric Sensing of Arsenite and Cyanide Ions Involving MLCT and CHEF Pathways". ***Journal of Molecular Structure***, 2022, ***1250*** (15) 131677. (**I.F= 4.0**). *https://www.sciencedirect.com/science/article/abs/pii/S0022286021018056*
3. Vinita Bhardwaj, Dhvani A patel, **Mujthaba Aatif A**, S. Abdul Majeed, A.S. Sahul Hameed, Ashok S.K. Kumar, and Suban K Sahoo*. "Probing Biothiols Using a Red-Emitting Pyridoxal Derivative by Adopting Copper(II) Displacement Approach and Cell Imaging". ***Chemistry & Biodiversity***, 2022, (19), e202200425. (**I.F= 2.9**). *https://onlinelibrary.wiley.com/doi/abs/10.1002/cbdv.202200425*
4. **Mujthaba Aatif A**, R. Selva Kumar, Suman Joseph, S. Abdul Majeed, and S. K. Ashok Kumar*. "Pyridinecarbohydrazide-Based Fluorescent Chemosensor for In^{3+} Ions and Its Applications in Water Samples, Live Cells, and Zebrafish". ***Journal of Photochemistry & Photobiology, A: Chemistry***, 2023, ***434*** (1) 114257. (**I.F= 4.1**). *https://www.sciencedirect.com/science/article/abs/pii/S1010603022004804*
5. **Mujthaba Aatif A** and Ashok Kumar S.K*. "Phenanthroline–Benzothiazole Conjugate an "On-Off" Fluorescent Sensor for Hg (II) and Its Applications in Living Cells". ***Polyhedron***, 2023, ***232*** (1) 116276. (**I.F= 2.4**). *https://www.sciencedirect.com/science/article/abs/pii/S0277538722006283*
6. **Mujthaba Aatif A**, Selva Kumar R, Leyana K Shaji, Pravin Kumar Selvam, Bhaskar R, S. Abdul Majeed, A. S. Sahul Hameed, and S. K. Ashok Kumar*. "A Dual Responsive Novel Bipyridyl Carbohydrazide Schiff Base as Colorimetric-fluorescent Probe for In^{3+} and Al^{3+} Ions and its Potential Applications". ***Sensors and Diagnostics***, 2024. (**I.F= 3.5**). *https://pubs.rsc.org/en/content/articlelanding/2024/sd/d3sd00282a*
7. Sivaraj Mithra, Seepoo Abdul Majeed*, **Arni Mujthaba Aatif**, Selvam Suryakodi, Abdul Nafeez Ahmed, Gani Taju, Mohamed Jaffer Abdul Wazith, Palsamy Ramesh Kumar & Azeez Sait Sahul Hameed*. "Application of Novel Gill Cell Line from Lates Calcarifer for Recognizing Metals Using Probes". ***Biological Trace Element Research***, 2024. (**I.F= 3.4**). *https://link.springer.com/article/10.1007/s12011-024-04229-x*
8. I. Abdul Matheen, A. Ahmed Raza*, **A. Mujthaba Aatif**, S. Ravi, Attar Kubaib, S. Abdul Majeed, S. Zaheer Ahmed & S. Syed Tajudeen*. "Enhanced photocatalytic degradation of organic contaminants using a novel bimetallic Ag-Cu doped biphenyl linked covalent triazine framework: Experimental, theoretical and toxicological assessments". ***Journal of Photochemistry & Photobiology, A: Chemistry***, 2025 (***462***) 116264. (**I.F= 3.4**). *https://www.sciencedirect.com/science/article/abs/pii/S1010603025000048?via%3Dihub*
9. Nivedya T, Rishav Das, Selva Kumar R, Shanooja Shanavas, Bhaskar Rangaswamy, **Mujthaba Aatif A**, Chandrapaul Mukherjee, Riona Roy, Jhimli Sengupta, Bipasha Bose*, Ashok Kumar S.K* and Priyankar Paira*. "The role of ancillary ligands on benzodipyridophenazine-based Ru(II)/Ir(III) complexes in dark and light toxicity against TNBC cells". ***Dalton Transactions***, 2025, ***54***, 4888. (**I.F= 3.4**). *https://pubs.rsc.org/en/content/articlelanding/2025/dt/d4dt03456b*

10. Sivaraj Mithra, Basheer Madiha Fathima, Seepoo Abdul Majeed*, Gani Taju, Sakvai Mohammed Safiullah, **Arni Mujthaba Aatif**, Sugumar Vimal, Amtuz Zehra, Sahayarajan Martina, Ahmed Hussain Ghousia Nisha, and Azeez Sait Sahul Hameed*. "Effects of selected heavy metals on neuronal differentiation of Asian seabass spinal cord cell line". ***Marine Pollution Bulletin***, 2025 (***214***) 117784. (**I.F= 3.4**). *https://www.sciencedirect.com/science/article/abs/pii/S0025326X25002590?via%3Dihub*

11. Sivaraj Mithra, Shahabudeen Umma Kulsoom, Seepoo Abdul Majeed*, **Arni Mujthaba Aatif**, Nasar Khan Almas, Rahman Hajira Banu, Sayeeda Kaneez Fathima, Gani Taju, Sakvai Mohammed Safiullah, and Azeez Sait Sahul Hameed*. "Production and application of three-dimensional spheroid culture from Lates calcarifer gill cell line for detecting metal using fluorescent probes". ***Inorganic Chemistry Communications***, 2025 (***177***) 114368. (**I.F= 3.4**). *https://www.sciencedirect.com/science/article/abs/pii/S1387700325004848?via%3Dihub*

12. **Mujthaba Aatif A**, Selva Kumar Ramasamy, R. Bhaskar, S. Abdul Majeed, A.S. Sahul Hameed, S. Zaheer Ahmed, and S.K. Ashok Kumar*. "Pyridine-2,6-dicarbohydrazide Schiff base: a sensitive fluorescent 'turn-on' probe for Th^{4+} ions and potential application in Zebrafish imaging". ***Journal of Photochemistry & Photobiology, A: Chemistry***, 2026, ***473*** (1) 116896. (**I.F= 4.7**) *https://www.sciencedirect.com/science/article/abs/pii/S1010603025006367*

13. Shilpa Taneja, Selva Kumar Ramasamy*, **A. Mujthaba Aatif**. "A new dual-functional ratiometric fluorescent probe based on quinoline–triphenylamine Schiff base for detecting copper and thorium in environmental samples". ***Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy***, 2026, ***348***, 127194. (**I.F= 4.6**) *https://www.sciencedirect.com/science/article/abs/pii/S1386142525015021*

6.2. List of Paper Presentations in National/International Seminars/Conferences *(Paper Title, Seminar / Conference, Place, Date)*

1. Presented a poster entitled "Development of a new colorimetric fluorescent sensor for CN^- recognition in a semi-aqueous environment" at the "**International Conference on Chemical Sciences and Nanomaterials (ICCSN-2019)**" held at VIT, Vellore (7^{th} to 9^{th} March 2019).

2. Presented a poster entitled "Development of coumarin hydrazone as a fluorogenic chemosensor for Lu^{3+} ions" at the National Conference on "**26^{th} CRSI-National Symposium in Chemistry (CRSI-2020)**" held at VIT, Vellore (7^{th} to 9^{th} February 2020).

3. Presented an oral entitled "Highly selective coumarin hydrazone as a fluorescent chemosensor for Lu^{3+} and bio-imaging in zebrafish" at the Virtual International Conference on "**Molecules to Materials (MTM-2020)**" held at SVNIT, Surat (17^{th} and 18^{th} December 2020).

4. Presented a poster entitled "A Turn-on Fluorescent Probe Based on Pyridyl Dicarbohydrazide Schiff Base for Detection of In^{3+} and its Bio-Imaging in Live Cells and Zebrafish Embryo" at the International Conference on "**Analytical Research Forum (ARF) 2022**" held in London, UK, and online (13^{th} and 14^{th} June 2022).

5. Presented an oral entitled "Pyridinecarbohydrazide-based fluorescent chemosensor for In^{3+} ions and its applications in live cells and zebrafish larvae" at the International Webinar on "**Recent Advances in Chemical Sciences (RACS-2022)**" held at Gandhigram Rural Institute, Gandhigram, Tamil Nadu (21^{st} and 22^{nd} July 2022).

6. Presented an oral entitled "Pyridine-2,6-Dicarbohydrazide Schiff Base: A Sensitive Fluorescent 'Turn-On' Probe for Th^{4+} Ions and Potential Application in Zebrafish Imaging" at the International Conference on "**Frontiers in Material Science for a Sustainable Future (ICFMSSF'25)**" held at Auxilium College (Autonomous), Vellore, Tamil Nadu (18^{th} September 2025).

6.3. List of Conferences / Symposiums / Webinars Attended

1. Attended a half-day FDP on "**Developing Writing and Presentation Skills**" facilitated by Ms. Amanda Wibben & Mr. David Bossom, Fulbright Nehru English teaching Assistant, Consultant, USA, organized by the Academic Staff College of VIT, Vellore, held on 20-Jan-2020.
2. Participated in the two-day webinar on "**Gaussian, ChemDraw, and Mnova Software**" held on the 21st and 22nd of July 2020. Organized by the Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology, Vellore, and Scube Scientific, New Delhi.
3. Participated in the "**International Virtual Conference on Advanced Nanomaterials Applications**" organized by the Center for Nanotechnology Research (CNR), Vellore Institute of Technology, Vellore, on 17th and 18th June 2020.
4. Attended a Royal Society of Chemistry Webinar on "**ChemCareers India-2020**" held on 02-Dec-2020.
5. Attended an RSC Publishing Webinar on "**Dalton New Talent- Americas Desktop Seminar**" held on 02-Dec-2021.
6. Attended an RSC Publishing Webinar on "**ChemSci2021: Leaders In The Field Symposium**" held on 15-Dec-2021.
7. Attended an RSC Publishing Webinar on "**RSC-IISER Desktop Seminar with OBC**" held on 25-Nov-2021.
8. Attended an RSC Publishing Webinar on "**RSC-IISER Desktop Seminar with ChemComm**" held on 06-Aug-2021.
9. Attended an RSC Publishing Webinar on "**RSC-IISER Desktop Seminar with CrysEngComm**" held on 25-Nov-2021.
10. Attended an RSC Publishing Webinar on "**RSC-IISER Desktop Seminar with Dalton Transactions**" held on 23-Sep-2021.
11. Attended an "**International Accreditation Celebration Event 2021**" held on 12-13 October 2021, organized by the Royal Society of Chemistry, UK.
12. Attended an RSC Publishing Webinar on "**RSC-IIT Desktop Seminar with JMC-A**" held on 28-Oct-2021.
13. Attended a webinar on "**Research Beyond Academia: Strategies for Real World Impact**" held on 10-Aug-2023, organized by the Taylor and Francis Group.
14. Participated in the Virtual Workshop on "**Quality Assurance in Chemistry Laboratory**", held at Vellore Institute of Technology, Vellore, India, on 21.02.2022.
15. Participated in the Workshop on "**Using LaTeX to create high-quality technical & scientific documents**", held at Vellore Institute of Technology, Vellore, India, on 23.02.2022.
16. Participated in the UGC - Sponsored Webinar on "**Research and Development**" conducted by the UGC - Malaviya Mission Teacher Training Centre, Madurai Kamaraj University, on 02.03.2024.
17. Attended an ACS Science Talk on "**Cancer Theranostics**" organized by the American Chemical Society (ACS) on 8th September 2025.

6.4. Reviewer in International Journals

1. Served as a **Reviewer** in a peer-reviewed international journal "***Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy***" (ELSEVIER). (**I.F= 4.8**)
2. Served as a **Reviewer** in a peer-reviewed international journal "***Inorganic Chemistry Communications***" (ELSEVIER). (**I.F= 5.9**)

3. Served as a **Reviewer** in a peer-reviewed international journal, "***Microchemical Journal***" (ELSEVIER). (**I.F= 5.1**)

4. Served as a **Reviewer** in a peer-reviewed international journal, "***Journal of Fluorescence***" (SPRINGER NATURE). (**I.F= 3.4**)

5. Served as a **Reviewer** in a peer-reviewed international journal, "***Journal of Nanobiotechnology***" (SPRINGER NATURE). (**I.F= 15.0**)

6. Served as a **Reviewer** in a peer-reviewed international journal, "***Spectroscopy Letters***" (TAYLOR & FRANCIS). (**I.F= 1.6**)

6.5. VIDWAN ID: *506844 & https://vidwan.inflibnet.ac.in/profile/506844*

6.6. Research Identification*

ORCID : https://orcid.org/0000-0001-9794-5040

Google Scholar : https://scholar.google.com/citations?user=oPlLXXwAAAAJ&hl=en

Scopus : https://www.scopus.com/authid/detail.uri?authorId=57221810561

Clarivate™ Web of Science : https://www.webofscience.com/wos/author/record/AAF-3000-2021

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