

STAFF PROFILE

Name : Dr. A. MUJTHABA AATIF
Designation : Assistant Professor,
Department : Post Graduate and Research Department of Chemistry,
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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.	<i>Raman Research Award</i>	Vellore Institute of Technology (VIT)	2020 & 2021
2.	<i>Best Oral Presentation Award</i>	Gandhigram Rural Institute	2022

4. Research Details

4.1 Areas of Specialization

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

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

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

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

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: <https://www.webofscience.com/wos/author/record/AAF-3000-2021>

4.2 List of Papers published (Name, Title, Journal Name, Volume, Year, Page No)

1. **Mujthaba Aatif A**, Selva Kumar R, S. Abdul Majeed, and S. K. Ashok Kumar*. "A Turn-on Fluorescent Probe for Lu³⁺ Recognition and Bio-Imaging in Live Cells and Zebrafish." *Analytical Methods*, 2021, **13** (2) 212-221. (I.F= 3.1).
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= 3.8).
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).
4. **Mujthaba Aatif A**, R. Selva Kumar, Suman Joseph, S. Abdul Majeed, and S. K. Ashok Kumar*. "Pyridinecarbohydrazide-Based Fluorescent Chemosensor for In³⁺ Ions and Its Applications in Water Samples, Live Cells, and Zebrafish." *Journal of Photochemistry & Photobiology, A: Chemistry*, 2023, **434** (1) 114257. (I.F= 4.3).
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= 2.6).
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 In³⁺ and Al³⁺ Ions and its Potential Applications". *Sensors and Diagnostics*, 2024.

4.3. Detail of patents

Nil

4.4. Books/Reports/Chapters/General articles etc.

Nil

4.5. List of Paper Presentations in National/International Conferences

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 (7th to 9th March 2019).
2. Presented a poster entitled "Development of coumarin hydrazone as a fluorogenic chemosensor for Lu³⁺ ions" at the National Conference on '26th CRSI-National Symposium in Chemistry (CRSI-2020)' held at VIT, Vellore (7th to 9th February 2020).
3. Presented an oral entitled "Highly selective coumarin hydrazone as a fluorescent chemosensor for Lu³⁺ and bio-imaging in zebrafish" at the Virtual International Conference on 'Molecules to Materials (MTM-2020)' held at SVNIT, Surat (17th and 18th December 2020).

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4. Presented a poster entitled “A Turn-on Fluorescent Probe Based on Pyridyl Dicarbohydrazide Schiff Base for Detection of In³⁺ and its Bio-Imaging in Live Cells and Zebrafish Embryo” at the International Conference on ‘**Analytical Research Forum (ARF) 2022**’ held at London, UK and online (13th and 14th June 2022).
5. Presented an oral entitled “ Pyridinecarbohydrazide-based fluorescent chemosensor for In³⁺ 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, Tamilnadu (21st and 22nd July 2022).

4.6. List of Conferences / Symposium / Webinars Attended

1. Attended a half-a-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 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.

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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.

4.7. 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= 4.4**)
2. Served as a **Reviewer** in a peer-reviewed international journal “*Inorganic Chemistry Communications*” (ELSEVIER). (**I.F= 3.8**)

4.8. Memberships

- Affiliate Member of the Royal Society of Chemistry (**RSC**), Cambridge, **UK**.
- Community Member of American Chemical Society (**ACS**), Washington, DC, **USA**.