

Faculty Profile



Dr. B. MOHAMAD ALI, M.Sc., Ph.D.,
Assistant Professor - Chemistry

HIGHLIGHTS:

- Number of Journal Publications: 20
- H-Index: 08
- Project Funding Received: NIL
- Patents Published: NIL
- Patents Granted: NIL
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PROFESSIONAL LINKS:

- Scopus ID: 57190161147
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=57190161147>
- Google Scholar ID: https://scholar.google.com/citations?user=1n53_uQAAAAJ
- Anna University Faculty ID:
- AICTE Faculty ID: 1-10775682981
- Anna University Supervisor ID: NIL
- LinkedIn: NIL

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 3.5 Years
- Industrial Experience: NIL

INTERNATIONAL EXPOSURE:

- **Postdoctoral Research Fellow (PDF).** Department of Chemical Engineering, Zhejiang University of Technology, Hangzhou, 310014, China from November 2022 to February 2025.

ADDITIONAL INTERNATIONAL EXPOSURE:

- Research and Scientific Editorial Consultant and collaborator, Department of Chemical Engineering, Zhejiang University of Technology, Hangzhou, 310014, China – 2025 to till now.

AREA OF SPECIALIZATION:

- Synthetic Organic Chemistry
- Polymer Nanoparticles
- Polyurethane Chemistry
- Inorganic Chemistry
- Dendrimers and Radical Dendrimers
- Hyperbranched Polymers
- Pickering Interfacial Catalysis
- Homogenous/Heterogenous Catalysis
- Polymeric Membranes Technology

Ph.Ds AWARDED WITH DETAILS: NIL

S:No	Name of Scholar	Title of Thesis	Year of Completion	Full Time/Part Time

Ph.Ds GUIDING: NIL

- **Full Time Scholars:** NIL
- **Part Time Scholars:** NIL

SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:

- National Natural Science Foundation of China - Member (Under Review)

PATENTS PUBLISHED/GRANTED: NIL**COURSES CERTIFIED:**

- Completed the Short-Term Course on “Educating the Millennials” organized by Saveetha Teaching Learning Centre, Saveetha Engineering College, Chennai, India between February 2022- April 2022.

ACHIEVEMENTS AND AWARDS:

- Awarded CSIR-SRF (Council of Scientific & Industrial Research India - Senior Research Fellowship) in 2018 to 2021.
- Awarded DST-JRF (Department of Science & Technology India – Junior Research Fellowship) in 2015 to 2018.

- Received best Oral Presentation award in an International Conference on Recent trends in Analytical Chemistry (ICORTAC-2018), University of Madras, and Chennai, India during March 15-17, 2018.
- Published Cover Page Article in the European Polymer Journal, Volume 122, 5, January 2020.
- Published Cover Page Article as a co-author in Journal of Macromolecular Science, Part A: Pure and Applied Chemistry, Volume 61, Issue 7, 2024.
- Active Editor for Journal of Chemical Engineering Research Updates.
- Active Reviewer for Journal of Materials Science & Engineering, ChemistrySelect and ACS Applied Polymer Materials Journals.

SPECIAL SESSIONS DELIVERED: NIL

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- Synthesis and Characterization of Polyurethane Dendrimers Functionalized with Stable 2, 2, 6, 6 – Tetramethyl-Piperidine-1- oxyl (TEMPO) Radicals, **Mohamad Ali Badusha** and A Sultan Nasar, (NCNRCR-2016) 3rd National Conference on New Renaissance in Chemical Research held on August 19th, 2016, in SRM University, Chennai, India.
- Synthesis and scavenging applications of polyurethane dendritic nitroxide radical dendrimers, **B. Mohamad Ali** and A. Sultan Nasar, (FACTs-2017) International Conference on Frontier Areas in Chemical Technologies held on 06 – 08 July 2017 in Alagappa University, Karaikudi, India.
- Polyurethane dendrimers functionalized with TEMPO radicals up to fourth generation, **B. Mohamad Ali** and A. Sultan Nasar, (APA-2017) International Conference on Advances in Polymer Science & Technology held on 23 – 25 November 2017 in New Delhi, India.
- Synthesis and characterization of gold and silver nanoparticle incorporated nitroxide radical terminated polyurethane dendrimers, **B. Mohamad Ali** and A. Sultan Nasar, (NANOMEET-2017) National Seminar on Recent Advances in Nanoscience and Technology held on 29 – 30 November 2017, Anna University, Chennai, India.
- Synthesis and anticancer evaluation of novel nitroxide radical functionalized polyurethane dendrimers, **B. Mohamad Ali** and A. Sultan Nasar, (ICAN-2018) 2nd International Conference on Advances in New Materials held on 08–09 June 2018 in Department of Inorganic Chemistry, University Madras, Guindy campus, Chennai, India.
- Synthesis and anticancer effect of TEMPO functionalized polyurethane dendrimers, **B. Mohamad Ali**, B. Velavan, G. Sudhandiran and A. Sultan Nasar, (MACRO-2018) 15th International Conference on Polymer Science and Technology held on 19-22 December 2018 in IISER-Pune and CSIR-NCL Pune in Maharashtra, India.
- Four generation of nitroxide radical functionalized Polyurethane dendrimers and their scavenging efficiency of reactive radicals, **B. Mohamad Ali** and A. Sultan Nasar, (ICORTAC-2018) 2nd International Conference on Recent Trends in Analytical

Chemistry held on 15–17 March 2018 in Department of Analytical Chemistry, University Madras, Guindy campus, Chennai, India.

- Synthesis of fifth generation TEMPO radical functionalized polyurethane dendrimer and their highly efficient electrolytic performance of dye-sensitized solar cell, **B. Mohamad Ali**, I. Bargathulla and A. Sultan Nasar, (ICACSEM- 2020) International Conference on Advances in Chemistry with Specific Reference to Catalysis, Sensors, Drug Delivery and Energy Materials, held on 9-11 January 2020 in Department of Physical Chemistry, University Madras, Guindy campus, Chennai, India.
- Replacement of 50% Iodine Redox Couple and Excellent Performance of Dye-Sensitized Solar Cell Enabled by TEMPO Radical Dendrimer-Iodide Dual Redox Systems **B. Mohamad Ali** (ICORTAC-2023) 3rd International Conference on Recent Trends in Analytical Chemistry held on 26–28 June 2023 in Department of Analytical Chemistry, University Madras, Guindy campus, Chennai, India.
- **B. Mohamad Ali** participated in a Two-day Webinar on “Organic and Polymer Materials” organized by the Division of Chemistry, School of Advanced Science, Vellore Institute of Technology Chennai on 23-24 July 2020.
- Attended **Royal Society of Chemistry** Sponsored Seminar “Experimental Methods in Chemistry” on 17 October 2015 at Madras University, Tamil Nadu, India.
- Attended **Thermo Fischer Scientific** Sponsored Seminar “Polymer Processing and Its Application to packaging were using Nano Materials” on 2nd November 2015 at Anna University, Tamil Nadu and India.
- Participated “Author Workshop” sponsored by **Springer** and Anna University, Chennai on 17th March 2015.
- Five days Training Programme on “**The State of The Art – Analytical Instruments**” held at Ac Tech, Anna University, Chennai, during 26th – 30th October 2015.
- Participated “Prof. T. Raju Felicitation Seminar on Chromatographic Techniques” Sponsored by **Royal Society of Chemistry** South India Section and Analytical Chemistry Department, University Madras, Chennai on June 29, 2017.
- Participated National workshop on Photoluminescence and Functional Materials – NWPFM-2019 on 20-21 June 2019 at Department of Inorganic Chemistry & Centre for Ultrafast Processes, University of Madras, Chennai.
- Participated in One Day National Seminar on "Emerging Trends in Chemical Engineering Domain", organized by Department of Chemical Engineering and IChE SEC Student Chapter, Saveetha Engineering College, Chennai on 26.02.2022.
- Participated in the Biomaterials Online Conclave 2022 organized by MHRD-RUSA 2.0 Biomaterials project by the national Centre for Nano science and Nanotechnology, University of Madras during 07th – 15th March 2022.
- Participated in the Five Days Faculty Development Program on Scientific Tools for Startups organized by RUSA 2.0 Entrepreneurship Career Hub, University of Madras during 08th – 12th March 2022.

- Attended the seven days virtual FDP on “Best Practices for Next Gen Teachers” organized by SRM Institute of Science and Technology Ramapuram Campus, Chennai during 30th – 07th June 2022.

PROFESSIONAL MEMBERSHIPS: NIL

OTHER DETAILS (If any):

- Selected Tamil Nadu state level KHO-KHO player in two consecutive years 2006-2007 and 2007-2008.