



**Dr. Mustaqeem Mohammed Abbas**

**Assistant Professor stage 3**

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**Educational Qualifications:**

- BSc (Chemistry) (University of Mumbai)-2010
- MSc (Organic Chemistry), (University of Mumbai)-2012
- PhD (Chemistry) (University of Mumbai)-2015

**Professional Experience:**

- Recipient of International level best Poster presentation (1<sup>st</sup> position) 2024
- Recipient of National level best oral presentation (3<sup>rd</sup> position) 2022
- Recipient of International best oral presentation (3<sup>rd</sup> position) 2021
- Recipient of International special research award in 2020
- Recipient of National level best oral presentation 2021
- 2015-till date faculty at Department of Chemistry, Royal College of Arts, Science and Commerce (Affiliated to the University of Mumbai).
- 10 years teaching experience of Chemistry F. Y /S. Y/T.Y. BSc level.
- BOS member- Chemistry subject HSNC University, Mumbai.
- Invited as a resource person to delivered a talk on International Ozone Day celebration.
- Visiting faculty at Department of Chemistry HSNC University, Mumbai for MSc (Organic Chemistry) lectures
- Visiting faculty at Department of Chemistry Gurunanak College, Sion, Mumbai for MSc (Organic Chemistry) lectures
- Reviewer of International Research Journal of Chemistry and Chemical Science
- Fellow Contributor of International Science Community Association (ISCA)
- Attended "One day Basic Training Programme on Human Rights" at Kumaun University, Nainital
- Avishkar (UG University project)- Research Guide from 2015 -Till date
- Attended several workshops, Conferences, Webinars, Short term courses, Orientation Programme and Refresher course programme for administrative skill development.
- Published 27 research paper in national and international journals.

**Research Areas:**

- Green Chemistry
- Catalysis
- Water analysis
- Azo Dyes
- Heterocyclic Chemistry
- Spiro compound

- Microbial Study of Novel organic molecule.

## Publications:

1. Santosh B. Katariya, Kiran B. Upar, Mustaqeem Mohammed Abbas, Karthik K. Krishnan, "Efficient one-pot synthesis of pyrido[2,3-d]pyrimidines catalyzed by Nickel Ferrite nanoparticles in water" *Heterocyclic letters*, 16 (1), **2026**, 161-170.
2. Mustaqeem Mohammed Abbas, Vijay. V Dabholkar & Omprakash G Yadav, "Synthesis and Characterisation of 1,3,3-triazoles derivatives; a potential heterocycles by using Ni-Ferrite Nano particles", *Journal Of Technology*, 16(1), **2026**, 184-189.
3. Mustaqeem Mohammed A, Kalpana Patankar Jain and Yogita Shinde "Recent Advances in the Synthesis, Biological Activities, and Applications of Quinoxaline Derivatives: A Comprehensive Review" *Research Journey- New Horizons in Fundamental Research*. 363, **2025**, 71-73.
4. Mustaqeem Mohammed A, Simal Deshmukh, Sayyed Misbah, Farooqi Mashira and Karazgi Samreen "Benign Methodologies for The Synthesis Of 'N' And 'O' Based Heterocycles" *International Journal of Scientific Research in Science and Technology*. 1(1), **2025**, 53-56.
5. Mustaqeem Mohammed A and Karthik Krishnan "Multicomponent synthesis of Heterocycles as Biologically active frameworks" *Vidyawarta International Journal*" 1(1), **2025**, 152-155.
6. Mustaqeem Mohammed A and Karthik Krishnan "One pot synthesis of dihydropyrimidones by using Nickel Ferrite nano-catalyst" *Heterocyclic Letters*, 15(1), **2025**, 183-186.
7. Chitralakha Kotian, Mustaqeem Mohammed, Kanji Muntasha, Sardesai Sanika, Mishra Prashant and Shaikh Iqra "Recovery and reuse of Nickel(II) from Ni-Dimethyl glyoxime complex: A sustainable laboratory practice" *Int. J. Adv. Res.* 12(04), **2024**, 1159-1164.
8. Mustaqeem Mohammed A, Jatin Kerkar, Julian James, Saransh Shivprasad K "Pyrazole Based Green synthesis of Schiff's base " *Heterocyclic Letters*, 13(4), **2023**, 697-700.
9. Mustaqeem Mohammed A, Gunwanti Sinwal "Synthesis of some novel azo dyes by coupling with 1-Phenylbutane-1,3-dione" *International journal of research*, 12(1), **2022**, 114-116.
10. Dr. Vijay N. Pawar\*, Mr. Abdul Kayum Chaudhary, Dr. Mustaqeem Mohammed Abbas, Ms. Humera Khan Mohd. Abbas "Characterization and pharmacodynamic study of Thiazole based ointment " *Journal of chemical, Biological and Physical Sciences*, 13(1), **2022-23**, 53-58.
11. Mustaqeem Mohammed A, Gunwanti N "Synthesis of some novel Heterocyclic Azo-Dye by using Meldrum's Acid" *Heterocyclic Letters*, 11(4), **2021**, 555-558.
12. Mustaqeem Mohammed A, Siddharth A "Impact of Immunity Boosting Agent on SARS-COV2: Current Scenario " *International journal of research*, 10(8), **2020**, 145-146.
13. Mustaqeem Mohammed A, Siddharth A "Analysis of Chemistry Laboratory Effluents and its treatment " *Indian journal of applied research*, 9(8), **2019**, 01-03.

14. Mustaqeem Mohammed A, Juliet Miranda "Ecofriendly route for the synthesis of Azo dyes" *Sanshodhana chemistry J*, **2017**.
15. Mustaqeem Mohammed A, Juliet Miranda "Ecofriendly synthesis of Biginelli products" *Heterocyclic Letters*, 7(3), **2017**, 489-491.
16. Mustaqeem Mohammed A, Juliet Miranda "Heteroannulation of substituted thiocabohydrazide" *Heterocyclic Letters*, 6(3), **2016**, 693-696.
17. Mustaqeem Mohammed A, Juliet Miranda "Synthesis of novel pyrazole derivatives of chalcones" *journal of chemistry and chemical science*, 5(7), **2015**, 351-356.
18. Vijay Dabholkar & Mustaqeem Mohammed A, Navnath Shinde, Omprakash G Yadav, "Synthesis of quaternary ammonium salt of piperidine derivatives", *Journal Of Chemistry and Chemical Science*, 5(4), **2015**, 139-144.
19. Vijay Dabholkar & Omprakash G Yadav, Navnath Shinde, Mustaqeem Mohammed A, "Synthesis of some novel Azo-Dye containing pyrazole moieties", *Journal Of Chemistry and Chemical Science*, 5(9), **2015**, 522-526.
20. Vijay Dabholkar & Omprakash G Yadav, Navnath Shinde, Mustaqeem Mohammed A, "The synthesis of pyrazole derivative containing azo dye moiety", *Der Pharma Chemica*, 7(7), **2015**, 95-99.
21. Vijay Dabholkar & Omprakash G Yadav, Navnath Shinde, Mustaqeem Mohammed A, "Microwave Induce Synthesis of Oxadiazole", *Heterocyclic Letters*, 5(2), **2015**, 245-249.
22. Vijay Dabholkar & Omprakash G Yadav, Navnath Shinde, Mustaqeem Mohammed A, "Synthesis, characterization and biological studies of novel fused Benzothiazine derivative by Sonication technique", *Journal of chemical, Biological and Physical Sciences*, 5(2), **2015**, 1180-1184.
23. Vijay Dabholkar & Mustaqeem Mohammed A, Navnath Shinde, Omprakash G Yadav, "Micro-Wave Induced Synthesis of New Fused Oxazole", *Research Journal Of Chemical Science*, 4(12), **2014**, 113-119.
24. Vijay Dabholkar & Mustaqeem Mohammed A, Navnath Shinde, Omprakash G Yadav, "One Pot synthesis of Thiazole by using TBAB Catalyst", *Journal of chemical, Biological and Physical Sciences*, 5(1), **2014**, 91-96.

25. Vijay Dabholkar & Mustaqeem Mohammed A, Navnath Shinde, Omprakash G Yadav, "Green Synthesis of Biginelli products of Meldrum Acid", *Der Pharma Chemica*, 6(5), **2014**, 101-104.
26. Vijay Dabholkar & Mustaqeem Mohammed A, Navnath Shinde, Omprakash G Yadav, "Synthesis of Novel derivatives of Piperidine", *Heterocyclic Letters*, 4(4), **2014**, 519-524.
27. Vijay Dabholkar & Navnath Shinde, Mustaqeem Mohammed A, Omprakash G Yadav, "Chemistry Of Novel Biphenyl Imidazole-Their synthesis & Microbial evolution", *Heterocyclic Letters*, 4(2), **2014**, 409-415.
28. Vijay Dabholkar & Omprakash G Yadav, Navnath Shinde, Mustaqeem Mohammed A, "Synthesis of some novel Azo-Dye containing pyrazole moieties", *Journal Of Chemistry and Chemical Science*, 5(9), **2015**, 522-526.
29. Vijay Dabholkar & Omprakash G Yadav, Navnath Shinde, Mustaqeem Mohammed A, "The synthesis of pyrazole derivative containing azo dye moiety", *Der Pharma Chemica*, 7(7), **2015**, 95-99.
30. Vijay Dabholkar & Omprakash G Yadav, Navnath Shinde, Mustaqeem Mohammed A, "Microwave Induce Synthesis of Oxadiazole", *Heterocyclic Letters*, 5(2), **2015**, 245-249.
31. Vijay Dabholkar & Omprakash G Yadav, Navnath Shinde, Mustaqeem Mohammed A, "Synthesis, characterization and biological studies of novel fused Benzothiazine derivative by Sonication technique", *Journal of chemical, Biological and Physical Sciences*, 5(2), **2015**, 1180-1184.

#### **Patent and Technology:**

Patent Office, Government of India:

- 1) "Electrosynthesis Reactor" – Registered on 21/02/2025 - No. 448381-001
- 2) "Carbon Extractor" – Registered on 22/02/2025 - No. 448896- 001

## Paper Presentations

- ❖ **Two days International Conference on Recent trends in Chemical Science, Physical Science, Life Science and Computer Technology (Feb-2026) organized by Anjuman Islam Janjira Degree College**  
Sustainable Synthesis of Pyrimidones and Thiopyrimidones: a Potential Heterocycles
- ❖ **One day national Conference on Element in Action: Chemistry for Sustainability and Innovation (January 2026) organized by Jai Hind College-Churchgate.**  
Multicomponent synthesis of Fused pyrimidinones by using Zirconium Ferrite Nanoparticles.
- ❖ **Three days international conference on New Dimension in Chemical Science and Education (ACT-Somaiya Vidyavihar University, Mumbai**  
One pot synthesis of Dihydropyrimidone by using Zirconium Ferrite Nanoparticles
- ❖ **Two Day International E-Conference on-Bridging Chemistry and Physics for a sustainable future (ICBCPSF-April 2025)**  
Synthesis of Nitrogen and Oxygen based fused heterocycles by using metal-based nanoparticles
- ❖ **12<sup>th</sup> International Science Congress-ISCA 2024, Kanpur, M.P, India**  
Multicomponent Synthesis of Fused Heterocycles By using Ni-Fe Nano catalyst
- ❖ **One day National Conference on -Advances in Polymer Science and Technology (APST-2024)**  
  
'Green synthesis of Dihydropyrimidones with Transition metal based Nano Catalyst'
- ❖ **Two Days International Conference-Chemical and Environmental Science at SPIHER, Tamilnadu, India (2022).**  
  
'Facile Synthesis of azo dye containing pyrazole moiety by green route'
- ❖ **Two Days National Conference-4 Minute Research Pitch at IIS Jaipur, Rajasthan(2022).**  
  
'One pot synthesis of some novel oxygen containing heterocycles by using nano catalyst'
- ❖ **One Days National Conference-Recent trends & Development in Science, Technology, Social Science and Management at VESASC, Mumbai, Maharashtra (2021).**  
  
'Green Synthesis of Some novel oxygen containing Heterocycles'
- ❖ **Two Days International Conference-Chemical and Environmental Science at SPIHER, Tamilnadu, India (2021).**  
  
'Synthesis of novel Five Membered Heterocyclic dyes and treatment of its effluents'

- ❖ **Two Days National Conference-Water-The Animated Life, Challenges & Solutions at Kumaun University, Nainital, Uttarakhand (2019).**

'Analysis of Chemistry Laboratory Effluents and its treatment'

- ❖ **4<sup>th</sup> International Young Scientist Conference -Integrating traditional knowledge and advance research for sustainable future at Rashtriya Sanskrit vidyapeetha, Tirupathi, Andhra Pradesh, India (2018)**

'Synthesis Of Some Novel Azo-dyes By Coupling With Benzoyl Acetone'

- ❖ **One Day National Conference-Green Technology in Day to Day life at Gurunanak College, Sion, Mumbai, Maharashtra.(2017)**
- ❖ **One Day National Conference-Vision 2050: Balancing Development needs with Ecological issues at Royal College, Mira Road, Thane, Maharashtra.(2016)**

'Ecofriendly route for the synthesis of Azo dyes'

- ❖ **3<sup>rd</sup> International Virtual Congress-Environmental study (2016)**

'Ecofriendly Synthesis of Biginelli Products'

- ❖ **2<sup>nd</sup> International Young Scientist Conference -Life style and Management at Mother Theresa Post Graduate and Research Institute of Heath Science, Pondicherry, India (2016)**

'Heteroannulation of substituted thicarbohydrazide'

#### **Work-shop undertaken:**

- AI Tools in Teaching (Royal College)
- Newer technique in organic chemistry (Gurunanak College Sion)
- Basic laboratory technique (Royal College)
- SYBSc New syllabus 2017

#### **Others**

- Active involvement in the NSS, Chemical Associations club activities, Sports of

Royal College, NAAC, placement cell, Nature Club, Conduct of examination, Alumni Association.

- Guardian Teacher (S.Y & T.Y.BSc) and Mentor