

DR. RAJESH M. KAMBLE

Educational Qualifications

B. Sc. (Chemistry)	1997	Dr. B. A. M. U. Aurangabad, India
M. Sc. (Organic Chemistry)	1999	Dr. B. A. M. U. Aurangabad, India
Ph. D. (Chemistry)	2008	University of Mumbai, Mumbai, India
SET (Chemistry)	2000	-----

Positions held

August 2000 – March 2003 “**Lecturer in Chemistry**”, Department of Chemistry, Govt. of Maharashtra’s Ismail Yousuf College, Jogeshwari (East), Mumbai – 400 060 India

March 2003 to date “**Assistance Professor in Analytical Chemistry**”, Department of Chemistry, University of Mumbai, Santacruz (East), Mumbai - 400 098 India

Area of Research Interest

- Synthesis and characterization of novel organic materials for Organic Light Emitting Devices (OLEDs)
- Synthetic Organic Chemistry
- HPLC method development for Active Pharma Ingredients

Research Projects

A. Research projects completed:

1. Title: Development of Validated Stability-indicating LC method for simultaneous estimation of anti-inflammatory drugs in a commercial tablet.

Funding Agency: University of Mumbai

Amount: Rs. 25,000

Period: 2011-2012

B. Ongoing research projects:

1. Title: Synthesis, characterization and investigation of photophysical and electrochemical properties of anthraquinone analogs.

Funding Agency: University Grants Commission, Delhi

Amount: Rs. 1,40,000/-

Period: 2012-2014

Membership of Professional Societies

1. Life member of Society for Materials Chemistry (SMC) (LM-541)
2. Life member of The Indian Science Congress Association (L24938)

Supervision of Research Students

M. Sc. (Projects) : 57

M. Sc. (by Research) : 01

Ph. D. Currently working : 02

Ph. D.

Sr. No.	Name	Topic of Research	Status
1.	Mr. Bharat Kumar Sharma (NET-LS)	“Synthesis, Characterization and Optoelectronic study of Electroactive materials for Organic Electronics”	Working
2.	Mr. Mohd. Azam Shaikh (NET-JRF)	“Synthesis, Characterization and Optoelectronic Studies of Functionalized Heteroaromatics for Organic Electronics”	Working

M. Sc. (By Research)

Sr. No.	Name	Topic of Research	Status
1.	Mr. Shrawan G. Singh	“Simultaneous Determination of Anti-Inflammatory Drugs on High Performance Liquid Chromatography”	Degree awarded (2013)

Publications

1. Synthesis, Photophysical, Electrochemical and Thermal Studies of Triarylamines based on benzo[g]quinoxalines.
Azam M. Shaikh, Bharat K. Sharma and **Rajesh M. Kamble**, *J. Chem. Sci.* 2015. (Accepted)
2. Photophysical, Electrochemical and Thermal Studies of 5-methyl-5*H*-Benz[g]indolo[2,3-*b*]quinoxaline Derivatives: Green and Yellow Fluorescent Materials.
Azam M. Shaikh, Bharat K. Sharma and **Rajesh M. Kamble**, *Can. Chem. Trans.* 2015, 3(2), 158–170. (DOI:10.13179/canchemtrans.2015.03.01.0175)
3. Synthesis, Photophysical, Electrochemical and Thermal Studies of 2,3-bithienylpyrazino[2,3-*b*]phenazine.
Azam M. Shaikh, Bharat K. Sharma and **Rajesh M. Kamble**, *Chem. Sci. Trans.* 2015. (Accepted)
4. Stability-Indicating RP-HPLC Method for Analysis of Paracetamol and Tramadol in a Pharmaceutical Dosage Form.
S. G. Singh and **R. M. Kamble**, *E-J. Chem.* 2012, 9(3), 1347–1356. (doi:10.1155/2012/732506)
5. Validated RP-HPLC method for simultaneous estimation of paracetamol and tramadol hydrochloride in a commercial tablet.
S. G. Singh, S. Singh and **R. M. Kamble**, *J. Pharm. Res.* 2011, 4(11), 4038–4040.
6. Diels-Alder Reaction of 1,3,3-trimethyl-2-vinyl-1-cyclohexene with 4*H*-chromen-4-ones: A Convergent Approach to ABCD Tetracyclic Core of Marine Diterpenoids Related to Puupehenone and Kampanols.
R. M. Kamble and M.M.V. Ramana, *Helv. Chim. Acta.* 2011, 94(2), 261–267. (doi:10.1002/hlca.201000188)
7. First Lewis acid catalyzed [4+2] cycloaddition reaction of 1,3,3-trimethyl-2-vinyl-1-cyclohexene with chromones: a new entry to analogues of the puupehenone group of marine diterpenoids and kampanols.
R. M. Kamble and M.M.V. Ramana, *Monatsh. Chem.* 2011, 142, 501–506. (doi:10.1007/s00706-011-0480-z)
8. Simultaneous Determination of Preservatives (Methyl Paraben and Propyl Paraben) in Sucralfate Suspension Using High-Performance Liquid Chromatography.
S. G. Singh, S. Singh and **R. M. Kamble**, *E-J. Chem.* 2011, 8(1), 340–346. (doi: 10.1155/2011/360431)

9. Microwave-assisted Diels-Alder reaction of 1,3,3-trimethyl-2-vinyl-1-cyclohexene with chromones: An expeditious approach to analogues of puerpene group of marine diterpenoids and kampanols.
R. M. Kamble and M.M.V. Ramana, *Can. J. Chem.* 2010, 88, 1233–1239. (doi:10.1139/V10-137)
10. Synthesis and antimicrobial activity of *endo*-(±)-1,2,3,4,6,6a,12a,12b-octahydro-4,4,12b-trimethyl-benzo[*a*]xanthen-12-ones.
R. M. Kamble and M.M.V. Ramana, *J. Pharm. Res.* 2010, 3(12), 2804–2807. (ISSN: 0974-6943)
11. Development and validation of a stability indicating LC method for the determination of hydrochlorothiazide in pharmaceutical formulations.
S. G. Singh, S. Singh and **R. M. Kamble**, *J. Pharm. Res.* 2010, 3(12), 2949–2952. (ISSN: 0974-6943)

Papers Presented in Conferences, Symposia and Workshops

1. Annelated Thioxanthenes as Blue Emitting Fluorescent Materials.
Bharat K. Sharma, Trushna A. Omble and **Rajesh M. Kamble**, National Conference on Advances and Innovations in Chemical Sciences (NCAICS-2015), Department of Chemistry, University of Mumbai, India, 12–13 February 2015 (PP–10)
2. Opto-electronic studies of Asymmetric Linear Aceno[2,3-*b*]thiophenediones as Electroluminescent materials.
Bharat K. Sharma, Smita A. More and **Rajesh M. Kamble**, National Conference on Advances and Innovations in Chemical Sciences (NCAICS-2015), Department of Chemistry, University of Mumbai, India, 12–13 February 2015 (PP–51)
3. Synthesis, Photophysical, Electrochemical and Thermal Studies of 2,3-bithienylpyrazino[2,3-*b*]phenazine.
Mohd. Azam Shaikh, Harjeet Kaur and **Rajesh M. Kamble**, National Conference on Advances and Innovations in Chemical Sciences (NCAICS-2015), Department of Chemistry, University of Mumbai, India, 12–13 February 2015 (PP–52)
4. Photophysical, Electrochemical and Thermal Studies of 5-methyl-5*H*-Benz[*g*]indolo[2,3-*b*]quinoxaline: Green Luminescent material.
Mohd. Azam Shaikh, Aeysha A. Shaikh and **Rajesh M. Kamble**, National Conference on Recent Developments in Synthetic & Materials Chemistry (NCRDSMC-2015), Department of Chemistry, N.E.S. Ratnam College, Bhandup (W), Mumbai-400078 India, 16–17 January 2015 (OP–20)

5. Synthesis, Characterization and Optoelectronic Study of Novel Xanthone Derivatives: Yellow-Green Electroluminescent Materials.
Bharat K. Sharma and **Rajesh M. Kamble**, DAE-BRNS 5th Interdisciplinary Symposium on Materials Chemistry (ISMC-2014), Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai-400085, India, 9–13 December 2014 (M–103; **Best Poster-3rd Prize**).
6. Synthesis and Optoelectronic Studies Of Some Quinoxaline Derivatives.
Mohd. Azam Shaikh and **Rajesh M. Kamble**, National Conference on Advances In Synthetic and Materials Chemistry (NCASMC-2014), Department of Chemistry, University of Mumbai, India, 10–11 March 2014 (PP–44)
7. Study of Heavy Metals in Industrial Effluents from Mumbai Suburban and Thane Region.
Prashant Yeram, Kumar Aman, Shrawan Singh and **Rajesh M. Kamble**, Second National Symposium on “Modern Research Trends and Applications in Life Sciences”, Government of Maharashtra’s Elphinstone College, 156, Mahatma Gandhi Marg, Mumbai, India, 9th February, 2013 (PP)
8. Water Quality Analysis of Creek and Coast from Mumbai Region of Maharashtra.
Damor Vikas, Ummekulsum Merchant and **Rajesh M. Kamble**, Second National Symposium on “Modern Research Trends and Applications in Life Sciences”, Government of Maharashtra’s Elphinstone College, 156, Mahatma Gandhi Marg, Mumbai, India, 9th February, 2013 (PP)
9. Study of Physico-Chemical Characteristics of Ground Water in Boisar Industrial Area of Maharashtra.
Rajeshree Patil and **Rajesh M. Kamble**, Second National Symposium on “Modern Research Trends and Applications in Life Sciences”, Government of Maharashtra’s Elphinstone College, 156, Mahatma Gandhi Marg, Mumbai, India, 9th February, 2013 (PP)
10. Stability Indicating HPLC Method for Simultaneous Estimation of Paracetamol and Tramadol in Tablet Formulation.
S. G. Singh and **R. M. Kamble**, National Conference on Advance Materials in Industries, Department of Physics & Chemistry, Govt. Ismail Yusuf Arts, Science and Commerce College, Jogeshwari (East), Mumbai, India, 10–11 February, 2012 (IYC/P/23)
11. Simultaneous determination of Paracetamol and Tramadol in tablet by High performance liquid chromatography.
S. G. Singh and **R. M. Kamble**, National Seminar on Recent Advances in Synthetic Chemistry & Nanomaterials (RASCN-2012), Department of Chemistry, Shivaji University, Kolhapur, India, 21–22 January, 2012 (PP–9)

12. Simultaneous determination of methyl paraben and propyl paraben preservatives in sucralfate suspension using High-Performance Liquid Chromatography.
S. G. Singh and **R. M. Kamble**, National Seminar on Environmental Pollution and Monitoring (NSEPM 2010), Department of Chemistry, Changu Kana Thakur Arts, Commerce and Science College, New Panvel, India, 17–18 Sept. 2010 (PP–40)
13. A convergent approach for the tetracyclic framework of marine terpenoids, R. M. Kamble and M.M.V. Ramana, 20th Research Scholar's Meet-2008, Indian Chemical Society (Mumbai Branch), and Dept. of Chemistry, V.G. Vaze college, Mulund (E), Mumbai-81, 22–23 Feb. 2008 (OP–6)

Conferences/ Symposia/ Seminars/ Workshops Attended

1. Workshop on “The State of Art of Thermo analytical Techniques and their Applications” Department of Chemistry, Institute of Science, Mumbai and Indian Thermal Analysis Society, Mumbai, 1–3 March 2003.
2. National Symposium on “Green Chemistry” Institute of Science, Mumbai, 20–21 February 2004.
3. Workshop on “Revised Syllabus for M. Sc. P-II (Analytical Chemistry)” by The Board of Studies in Chemistry, University of Mumbai at Ramnarain Ruia College, Matunga, Mumbai, India, 23rd August, 2006.
4. International Conference in Emerging Trends in Chemical Sciences, Department of Chemistry, University of Mumbai, India, 23rd–25th Jan, 2007.
5. National Seminar on Nanomaterials, Department of Chemistry, University of Mumbai, India, 28–29 March 2008.
6. 2nd DAE-BRNS International Symposium on Materials Chemistry (ISMC-2008), Babha Atomic Research Centre, Mumbai, 2–6 December 2008.
7. National Conference on Chemistry of Materials (NCCM-2009), Department of Chemistry, University of Mumbai, India, 20–21 February 2009.
8. National Conference on Synthesis and Applications of Novel Materials (NCSANM-2010), Department of Chemistry, University of Mumbai, India, 4–5 March, 2010.
9. International Conference on Supramolecular Chemistry and Nanomaterials (ICSN-2011), Department of Chemistry, University of Mumbai, India, 14–16 February, 2011.
10. A one day lecture series “INSPIRE” as a part of Science Week Celebration (INSPIRE-2011), Department of Physics, University of Mumbai, India, 22nd February, 2011.

11. Workshop on 'Recent Advances in Radiation Biophysics', Department of Biophysics with Indian Society for Radiation Biology (ISRB) and International Society for Science & Technology (ISST), India, 28th February, 2011.
12. National Workshop on "Nanostructured Materials for Energy Devices and Environment" Department of Physics and Centre for Nanosciences & Nanotechnology, University of Mumbai, India, 17–18 August, 2011.
13. DAE-BRNS National Workshop on "Materials Chemistry (Functional Materials) NWMC-2011 (FUN-MAT)" Chemistry Division, BARC and Society for Materials Chemistry (SMS), Mumbai, India, 7–8 December, 2011.
14. Second National Symposium on "Modern Research Trends and Applications in Life Sciences", Government of Maharashtra's Elphinstone College, 156, Mahatma Gandhi Marg, Mumbai, India, 9th February, 2013.
15. National Conference on Advances In Synthetic and Materials Chemistry (NCASMC-2014), Department of Chemistry, University of Mumbai, India, 10–11 March 2014.
16. DAE-BRNS 5th Interdisciplinary Symposium on Materials Chemistry (ISMC-2014), Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai-400085, India, 9–13 December 2014.
17. 102nd Indian Science Congress, Science & Technology for Human Development (ISC-2015), University of Mumbai, Mumbai, India, 3–7 January 2015.
18. National Conference on Recent Developments in Synthetic & Materials Chemistry (NCRDSMC-2015), Department of Chemistry, N.E.S. Ratnam College, Bhandup (W), Mumbai-400078 India, 16–17 January 2015.

Invited lectures delivered at various Universities and Research Institutes

1. Basic concepts in Uv-Visible spectroscopy.
UGC refresher course in "Instrumental Methods in Chemistry" organized by Department of Chemistry, University of Mumbai (21st November 2011).
2. Principles and Applications of Liquid Chromatography.
UGC refresher course in "Recent Developments in Materials Chemistry" organized by Department of Chemistry, University of Mumbai (3rd October 2012).
3. Chromatography: Fundamentals and Applications.
2nd Preparatory Workshop of National Conference on "Phytochemistry: Recent Trends and Challenges" organized by Department of Chemistry, B. N. Bandodkar College of Science, Thane (27th October 2012).

4. Organic Semiconductors.
UGC refresher course in “Frontiers in Chemical Sciences” organized by Department of Chemistry, University of Mumbai (18th November 2013).
5. Organic Light Emitting Diodes: Structure and Working Principle
UGC refresher course in “Frontiers in Materials Chemistry” organized by Department of Chemistry, University of Mumbai (12th November 2014).

Contact

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