DR. RAJESH M. KAMBLE



Educational Qualifications

M.Sc. Ph.D. Chemistry

Professor, Department of Chemistry, University of Mumbai, Vidyanagari, Santacruz (East), Mumbai-400 098, India

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Area of Research Interest

Dr. Rajesh M. Kamble is presently working as Professor, Analytical Chemistry Section, Department of Chemistry, University of Mumbai, Mumbai, India.

His group is focused broadly on designing and fabricating Functional Organic Materials with controlled composition and architecture. Our consistent endeavour involves in synthesizing and exploring unique physical properties of novel advanced organic materials, and to exploiting these structures having application in organic electronics, chemical and biological sensors.

Our main goal is to develop new π -conjugated organic heterocyclic molecules (oligomers) having Donor-Acceptor (D-A) architecture and study their structure and properties in detail. These materials would be utilized to fabricate devices for organic light emitting diodes (OLEDs), photovoltaic devices, thin film transistors, Chemosensors and for Bio-

imaging purpose. UV-Vis, IR, NMR, Fluorimeter, Cyclic Voltammetry, DSC, TGA, Zeta

Potential analyzer and several microscopic techniques would be utilized to study the

physical and chemical characteristics of these organic materials. The developed materials

are studied for Intramolecular charge transfer (ICT), Aggregation-induced emission (AIE)

and thermally activated delayed fluorescence (TADF) characteristics experimentally as well

as theoretically by DFT/TDDFT calculations.

Semiconducting functionalized small organic materials having conduction and/or

luminescent properties would be utilized in photonic and electronics applications. Device

fabrication and testing would be performed on the new promising materials being developed

within the group.

Another interest of his research is on the development of composite materials for efficient

supercapacitors and electrochemical investigation of materials for supercapacitors. Also to

develop sensors in the form of chemically modified electrodes based on the synthesized

nanocomposites.

Research Projects

Research projects completed:

Title: Synthesis, characterization and study of optoelectronic properties

of functionalized heteroaromatics for organic light emitting diode

applications.

Funding Agency: Science & Engineering Research Board (SERB),

Delhi SERB/F/8418/2015-16

Title: Synthesis, characterization and investigation of photophysical and

electrochemical properties of anthraquinone analogs.

Funding Agency: University Grants Commission, Delhi

Title: Development of Validated Stability-indicating LC method for

simultaneous estimation of anti-inflammatory drugs in a commercial

tablet.

Funding Agency: University of Mumbai

Membership of Professional Societies

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

Member of BOS

- Member, Board of Studies in Chemistry, at University of Mumbai, Mumbai, India (since September 2022).
- Member, Board of Studies in Chemistry, at Mithibai College of Arts, Science and Commerce, Affiliated to University of Mumbai, Vile Parle, Mumbai, India (since 2021).
- Member, Board of Studies in Chemistry, of Somaiya Vidyavihar University, Vidyavihar East, Mumbai, India (since 2021 to 2024).

Member of Academic Council

 Member of Academic Council of Mithibai College of Arts, Science and Commerce (Autonomous), Vile Parle (West), Mumbai-400 056, Maharashtra, India (2024 to 2027).

Co-ordinator of Refresher Courses in Chemical Sciences

- UGC Human Resource Development Centre, University of Mumbai refresher course for college/University teachers in "Advances in Chemical Sciences" organized by Department of Chemistry, University of Mumbai from 10th October 2016 to 29th October 2016.
- 2. UGC Human Resource Development Centre, University of Mumbai refresher course for college/University teachers in "Applications of Advanced Analytical Techniques in Chemical Sciences" organized by Department of Chemistry, University of Mumbai from 22nd November 2023 to 5th December 2023.

Conferences Organized

• Secretary of UGC-SAP sponsored National Conference on "Recent Developments in Chemical Sciences" (RDCS-2018) (on the eve of 50 Years Golden Jubilee Year Celebration of Department) organized by Department of Chemistry, University of Mumbai during 8th and 9th March 2018.

• Co-Convener of National Conference on "Advances in Polymer Science and Technology" (APST-2024) organized by Department of Chemistry, University of Mumbai in collaboration with the Society for Industrial Chemistry, on 16th March 2024.

Supervision of Research Students

M. Sc. (Projects) : 109

M. Sc. (by Research) : 01

Ph. D. Guided : 05

Ph. D. Currently working : 05

Ph. D. (Working)

Sr.	Name	Topic of Research	Status
No.			
1.	Mr. Deepak M. Kapse	"Synthesis, Characterization and Optoelectrochemical	Working
		Investigation of Functionalized Heterocyclic Compounds	
		for Organic Electronics"	
2.	Ms. Reshma J.	Opto-electrochemical Studies of Functional Organic	Working
	Pandhare	Materials for Organic Electronics	
3.	Ms. Bhakti G. Thali	Studies on Improvised Electrode Materials based on	Working
		Nanocomposites for the Development of Supercapacitors	
		and Electrochemical Sensors	
4.	Mr. Dhiraj S.	Investigation on Supercapacitors and Electrochemical	Working
	Agrahari	Sensors Fabricated from Nanocomposite Materials	
5.	Ms. Eram Shaikh	Design and Development of Donor-Acceptor based	Working
		Organic Dyes for Opto-electrochemical Studies	

Ph. D. (Awarded)

Sr.	Name	Topic of Research	Status
No.			
1.	Mr. Bharat	"Synthesis, Characterization and Optoelectronic	Degree
	Kumar Sharma	study of Electroactive materials for Organic	awarded (30 th
	(NET-LS)	Electronics"	October
			2017)
2,	Mr. Mohd. Azam	"Synthesis, Characterization and Optoelectronic	Degree
	Shaikh (NET-	Studies of Functionalized Heteroaromatics for	awarded (12 th
	JRF)	Organic Electronics"	February,
			2018)

3.	Ms. Deepali N. Kanekar (SET)	"Synthesis, Photophysical, Electrochemical and Theoretical Investigation of Organic Optical Materials"	Degree awarded (14 th March, 2022)
4.	Ms. Pooja S. Singh (SET)	"Synthesis, Characterization and Optoelectrochemical Studies of Heterocyclic Systems for Organic Electronics"	Degree awarded (29 th October, 2022)
5.	Mr. Suraj S. Mahadik	"Synthesis, Characterization and Optoelectronic Studies of Donor-Acceptor based Heterocyclic Compounds for Organic Electronics"	Degree awarded (13 th May, 2024)

M. Sc. (By Research)

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

Publications

- 1. Suzuki-Miyaura coupling reaction: Blue-yellow emitting AIE active dyes for organic electronics.
 - Reshma J. Pandhare, Sajeev Chacko and **Rajesh M. Kamble**, Journal of Luminescence, 2025, 120899 (https://doi.org/10.1016/j.jlumin.2024.120899) (Impact Factor: 3.3)
- Comparative Electrochemical Studies of Binary Metal Oxide Nanocomposite on GCE and NF Substrates for Supercapacitor Application.
 Bhakti G. Thali, Rajesh M. Kamble, Souvenir Cum Bulletin of Indian Society for ElectroAnalytical Chemistry (ISEAC), ISBN No. 978-81-961201-3-9, August, 2024 (Volume 6, Issue 2, 129-143)
- Synthesis and electrochemical properties of CuCo₂O₄@Co₃O₄ nanocomposite for supercapacitor application.
 Journal of Solid State Electrochemistry, 2024, 1–15 (https://doi.org/10.1007/s10008-024-05909-3) (Impact Factor: 2.5)
- 4. D–A Based 2,3-di(pyridin-2-yl)pyrido[2,3-*b*]pyrazine Amine derivatives as Blue-Orange Emitting Materials: Tuning of Opto-electrochemical and Theoretical properties.
 - Suraj S. Mahadik, Purav M. Badani, Dinesh R. Garud, and Rajesh M. Kamble, ChemistrySelect 2023, 8, e202303026, (doi.org/10.1002/slct.202303026) (Impact Factor: 2.307)

5. Synthesis of D–A based violet–red light emitting indolo[2,3-*b*]quinoxalin-2-yl(phenyl)methanone amine dyes: Opto-electrochemical, AIE, and theoretical properties.

Reshma J. Pandhare, Purav M. Badani, **Rajesh M. Kamble**, Journal of Molecular Structure, 1298 (2024) 137080 (https://doi.org/10.1016/j.molstruc.2023.137080) (Impact Factor: 3.8)

- 2,3-Diphenylquinoxalin-6-yl based dyes: Synthesis and studies of photophysical, aggregation-induced emission enhancement and electrochemical properties.
 Sandeep E. Jadhav, Pooja S. Singh, Balaji R. Madje, Sajeev Chacko, Rajesh M. Kamble, Journal of Luminescence, 263 (2023) 120160
 (https://doi.org/10.1016/j.jlumin.2023.120160) (Impact Factor: 3.6)
- Synthesis, tuning of photophysical and electrochemical properties of Yellow-Red emissive, AIEE active benzamide dyes.
 Sandeep E. Jadhav, Pooja S. Singh, Balaji R. Madje, Sajeev Chacko, Rajesh M. Kamble, J. Photochem. Photobiol. A: Chem, 445 (2023) 115085 (https://doi.org/10.1016/j.jphotochem.2023.115085) (Impact Factor: 4.3)
- 8. 2,2',3,3'-Tetrakis(4-bromophenyl)-6,6'-biquinoxaline based novel Donor–Acceptor–Acceptor–Donor (DAAD) Blue–Orange emitting molecules: Opto-electrochemical, AIE and theoretical investigation
 Suraj S. Mahadik, Dinesh R. Garud, Mohammed K. Ghadiyali, Sajeev Chacko and Rajesh M. Kamble, Journal of Luminescence, 252 (2022) 119350, (https://doi.org/10.1016/j.jlumin.2022.119350) (Impact Factor: 3.6)
- Dicyanopyrazino phenanthrene based charge transfer derivatives: Role of amine donor in tuning of photophysical, aggregation-induced emission, electrochemical and theoretical properties.
 Pooja S. Singh, Sajeev Chacko and Rajesh M. Kamble, Journal of Molecular Structure, 1271 (2023) 134052 (https://doi.org/10.1016/j.molstruc.2022.134052) (Impact Factor: 3.8)
- Fluorescent indolo[2,3 -b]quinoxalin-2-yl(phenyl)methanone dyes: photophysical, AIE activity, electrochemical, and theoretical studies.
 Deepali N. Kanekar, Sudhakar S. Dhanawade, Anand B. Jadhav, Mohmmed Ghadiyali, Sajeev Chacko and Rajesh M. Kamble, Monatshefte für Chemie Chemical Monthly, 153, 895–906 (2022) (https://doi.org/10.1007/s00706-022-02974-0) (Impact Factor: 1.8)
- 11. Blue-red emitting materials based on a pyrido[2,3-b]pyrazine backbone: design and tuning of the photophysical, aggregation-induced emission, electrochemical and theoretical properties.

Deepak M. Kapse, Pooja S. Singh, Mohammed Ghadiyali, Sajeev Chacko and **Rajesh M. Kamble**, RSC Advances, 2022, 12, 6888–6905 (DOI: 10.1039/d2ra00128d) (Impact Factor: 4.036)

- 12. D—A—D based pyrido-pyrazino[2,3-b]indole amines as blue-red fluorescent dyes: Photophysical, aggregation-induced emission, electrochemical and theoretical studies. Pooja S. Singh, Mohammed Ghadiyali, Sajeev Chacko and **Rajesh M. Kamble**, **Journal** of Luminescence, 242 (2022) 118568 (https://doi.org/10.1016/j.jlumin.2021.118568) (Impact Factor: 3.6)
- 13. Synthesis, optical, electrochemical and theoretical studies of 2,3-Di(pyridin-2-yl)quinoxaline amine derivatives as blue-orange emitters for organic electronics.
 - Suraj S. Mahadik, Dinesh R. Garud, Rahul V. Pinjari, Rajesh M. Kamble, Journal of Molecular Structure, 1248 (2022) 131541 (https://doi.org/10.1016/j.molstruc.2021.131541) (Impact Factor: 3.841)
- 14. Blue-orange emitting carbazole based donor-acceptor derivatives: Synthesis and studies of modulating acceptor unit on opto-electrochemical and theoretical properties.
 - Pooja S. Singh, Purav M. Badani and **Rajesh M. Kamble**, J. Photochem. Photobiol. A: Chem, 2021, 419, 113457 (https://doi.org/10.1016/j.jphotochem.2021.113457) (Impact Factor: 5.141)
- 15. Study of modulating opto-electrochemical properties in Suzuki coupled phenazine derivatives for organic electronics.

 Deepali N. Kanekar, Purav M. Badani and **Rajesh M. Kamble**, Chemical Papers, 75, 5945–5961 (2021) (https://doi.org/10.1007/s11696-021-01772-y) (Impact Factor: 2.146)
- 16. Acridone-amine D-A-D thermally activated delayed fluorescence emitters with narrow resolved electroluminescence and their electrochromic properties.

 Marharyta Vasylieva, Piotr Pander, Bharat K. Sharma, Azam M. Shaikh, **Rajesh M. Kamble**, Fernando B. Dias, Malgorzata Czichy and Przemyslaw Data, Electrochimica Acta, 384, (2021) 138347 (https://doi.org/10.1016/j.electacta.2021.138347) (Impact Factor: 7.336)
- 17. Design, Synthesis and Opto-electrochemical Properties of Novel Donor–Acceptor Based 2,3-di(hetero-2-yl)pyrido[2,3-b]pyrazine amine derivatives as Blue-Orange Fluorescent Materials.

 Suraj Mahadik, Dinesh R. Garud, Anuja P. Ware, Subhash S. Pingale and **Rajesh M. Kamble**, Dyes & Pigments, 184 (2021) 108742 (https://doi.org/10.1016/j.dyepig.2020.108742) (Impact Factor: 5.122)
- 18. Opto-electrochemistry of pyridopyrazino[2,3-*b*]indole Derivatives. Pooja S. Singh, Akshata J. Shirgaonkar, Bhargavi K. Chawathe and **Rajesh M. Kamble, J. Chem. Sci.** 2020, 132:150. (https://doi.org/10.1007/s12039-020-01851-9) (Impact Factor: 2.150)
- 19. Imidazoanthraquinone-triarylamines based Chromofluorogenic Chemosensors for Anion Sensing.

- Bharat K. Sharma, Pooja S. Singh and **Rajesh M. Kamble**, Prog. Chem. Biochem. Res. 2020, 3(4), 296-318. (10.22034/pcbr.2020.113630) (Impact Factor: NA)
- 20. Synthesis and investigation of the photophysical, electrochemical and theoretical properties of phenazine—amine based cyan blue-red fluorescent materials for organic electronics.
 - Deepali N. Kanekar, Sajeev Chacko and **Rajesh M. Kamble**, New J. Chem., 2020, 44, 3278–3293 (DOI: 10.1039/c9nj06109f) (Impact Factor: 3.925)
- 21. Impact of Donor Substituent on Optoelectrochemical properties of 6*H*-indolo[2,3-b]quinoxaline Amine Derivatives.

 Pooja S. Singh, Purav M. Badani and **Rajesh M. Kamble**, New J. Chem., 2019, 43, 19379–19396 (DOI: 10.1039/c9nj05558d) (Impact Factor: 3.925)
- 22. 2,3-di(thiophen-2-yl)quinoxaline Amine Derivatives: Yellow-blue Fluorescent Materials for Applications in Organic Electronics.
 Suraj Mahadik, Sajeev Chacko and Rajesh M. Kamble, Chemistry Select, 2019, 4, 10021–10032 (DOI: 10.1002/slct.201902109) (Impact Factor: 2.307)
- 23. Quinoxaline based amines as Blue-orange emitters: Effect of modulating donor system on Optoelectrochemical and theoretical properties.

 Deepali N. Kanekar, Sajeev Chacko and **Rajesh M. Kamble**, Dyes & Pigments, 2019, 167, 36–50 (https://doi.org/10.1016/j.dyepig.2019.04.005) (Impact Factor: 5.122)
- 24. The design and synthesis of 2,3-diphenylquinoxaline amine derivatives as yellow-blue emissive materials for optoelectrochemical study. Pooja S. Singh, Sajeev Chacko and **Rajesh M. Kamble**, New J. Chem., 2019, 43, 6973–6988 (DOI: 10.1039/c9nj00248k) (Impact Factor: 3.925)
- 25. Design, Synthesis, Opto–Electrochemical and Theoretical Investigation of Novel Indolo[2,3-*b*]naphtho[2,3-*f*]quinoxaline Derivatives for *n*–Type Materials in Organic Electronics.
 - **Rajesh M. Kamble**, Bharat K. Sharma, Azam M. Shaikh and Sajeev Chacko, Chemistry Select, 2018, 3, 6907–6915 (DOI: 10.1002/slct.201801208) (Impact Factor: 2.307)
- 26. Synthesis, Opto-electrochemical and Theoretical Investigation of Pyrazino[2,3-b]phenazine Amines for Organic Electronics.
 Deepali N. Kanekar, Sajeev Chacko and Rajesh M. Kamble, Chemistry Select, 2018, 3, 4114–4123 (DOI: 10.1002/slct.201800562) (Impact Factor: 2.307)
- 27. Electrochemically synthesised xanthone-cored conjugated polymers as materials for electrochromic windows.
 - H. F. Higginbotham, M. Czichy, B. K. Sharma, A. M. Shaikh, **R. M. Kamble**, P. Data, Electrochimica Acta, 2018, 273, 264–272 (doi.org/10.1016/j.electacta.2018.04.070) (Impact Factor: 7.336)

- Synthesis and Optoelectronic Investigation of Triarylamines based on Imidazoanthraquinone as Donor–Acceptors for n-type Materials.
 Bharat K. Sharma, Azam M. Shaikh, Sajeev Chacko and Rajesh M. Kamble, J. Chem. Sci. 2018, 130(5), 49. (https://doi.org/10.1007/s12039-018-1443-2) (Impact Factor: 2.150)
- Functionalized Triarylamines for Applications in Organic Electronics.
 Rajesh M. Kamble, J. Indian Chem. Soc., 2017, 94, 1359–1362. (Impact Factor: 0.243)
- 30. Synthesis, Optoelectronic and Theoretical Investigation of Anthraquinone Amine–Based Donor–Acceptor Derivatives.
 Azam M. Shaikh, Sajeev Chacko and Rajesh M. Kamble, Chemistry Select, 2017, 2, 7620–7629 (DOI: 10.1002/slct.201701475) (Impact Factor: 2.307)
- 31. Synthesis and Studies of Imidazoanthraquinone Derivatives for Applications in Organic Electronics.
 Bharat K. Sharma, Swati Dixit, Sajeev Chacko, Rajesh M. Kamble and Neeraj Agarwal, Eur. J. Org. Chem. 2017, 30, 4389–4400. (10.1002/ejoc.201700769) (Impact Factor: 3.261)
- 32. Synthesis, Spectral, Electrochemical and Theoretical Investigation of indolo[2,3-b]quinoxaline dyes derived from Anthraquinone for n-type materials. Bharat K. Sharma, Azam M. Shaikh, Sajeev Chacko and **Rajesh M. Kamble**, J. Chem. Sci. 2017, 129(4), 483–494. (DOI 10.1007/s12039-017-1252-z) (Impact Factor: 2.150)
- 33. Novel electroluminescent donor-acceptors based on dibenzo[*a*,*c*]phenazine as hole transport materials for organic electronics.

 Azam M. Shaikh, Bharat K. Sharma, Sajeev Chacko and **Rajesh M. Kamble**, New J. Chem., 2017, 41, 628–638. (DOI: 10.1039/c6nj03553a) (Impact Factor: 3.925)
- 34. Synthesis and opto-electrochemical properties of tribenzo[a,c,i]phenazine derivatives for hole transport materials.

 Azam M. Shaikh, Bharat K. Sharma, Sajeev Chacko and **Rajesh M. Kamble**, RSC Advances, 2016, 6, 94218–94227. (DOI: 10.1039/c6ra20964e) (Impact Factor: 4.036)
- 35. Synthesis and Optoelectronic Investigations of Triarylamines based on naphtho [2,3-f]quinoxaline-7,12-dione core as Donor-Acceptors for n-type materials.

 Azam M. Shaikh, Bharat K. Sharma, Sajeev Chacko and **Rajesh M. Kamble**, RSC Advances, 2016, 6, 60084–60093. (DOI: 10.1039/c6ra11149a) (Impact Factor: 4.036)
- 36. Synthesis, Photophysical and Electrochemical Studies of Acridone-Amine based Donor-Acceptors for Hole Transport Materials.

 Bharat K. Sharma, Azam M. Shaikh, Neeraj Agarwal and **Rajesh M. Kamble**, RSC Advances, 2016, 6, 17129–17137. (DOI: 10.1039/c5ra25115j) (Impact Factor: 4.036)
- 37. Electron Deficient Molecules: Photophysical, Electrochemical and Thermal Investigations of naphtho[2,3-f]quinoxaline-7,12-dione derivatives.

- Azam M. Shaikh, Bharat K. Sharma and **Rajesh M. Kamble**, Chem. Heterocycl. Comp. 2016, 52(2), 110–115. (DOI: 10.1007/s10593-016-1842-6) (Impact Factor: 1.490)
- 38. Synthesis, Photophysical, Electrochemical and Thermal Investigation of Triarylamines based on 9*H*-Xanthen-9-one: Yellow–Green Fluorescent Materials. Bharat K. Sharma, Azam M. Shaikh and **Rajesh M. Kamble**, J. Chem. Sci. 2015, 127(11), 2063–2071. (DOI 10.1007/s12039-015-0973-0) (Impact Factor: 2.150)
- 39. 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, 127(9), 1571–1579. (DOI 10.1007/s12039-015-0904-0) (Impact Factor: 2.150)
- 40. 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)
- 41. 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, 4(3), 781–787. (DOI:10.7598/cst2015.1050)
- 42. 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) (Impact Factor: 3.241)
- 43. 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.
- 44. 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) (Impact Factor: 2.201)
- 45. 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) (Impact Factor: 1.613)

- 46. 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) (Impact Factor: 3.241)
- 47. Microwave-assisted Diels-Alder reaction of 1,3,3-trimethyl-2-vinyl-1-cyclohexene with chromones: An expeditious approach to analogues of puupehenone 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) (Impact Factor: 1.051)
- 48. Synthesis and antimicrobial activity of $endo-(\pm)-1,2,3,4,6,6a,12a,12$ boctahydro-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)
- 49. 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

- Electrochemical Evaluation of CuCo₂O₄@Co₃O₄ Nanocomposite on GCE and NF for Supercapacitor Application.
 Bhakti G. Thali and Rajesh M. Kamble, International Symposium—Current Trends in Advanced Materials, Department of Chemistry, School of Advanced Sciences, VIT-AP University, Amaravati, 26-31 August 2024 (Poster Competition: 1st Prize).
- Donor-Acceptor Based Fluorescent AIE Active Dyes for Organic Electronics.
 Reshma J. Pandhare and Rajesh M. Kamble, International Symposium-Current Trends in Advanced Materials, Department of Chemistry, School of Advanced Sciences, VIT-AP University, Amaravati, 26-31 August 2024 (Poster Competition: 3rd Prize).
- 3. Electrochemical Investigation of CuCo₂O₄@Co₃O₄ Nanocomposite on GCE and NF for Supercapacitor Application.

 Bhakti G. Thali and **Rajesh M. Kamble**, 12th Asian Network for Natural and Unnatural Materials, IIT Bombay, 20–22 July 2024 [Poster Competition: 1st Prize Best Poster Award] (Poster: P-39).
- 4. Donor-Acceptor Based Violet-Red Light Emitting AIE Active Dyes for Organic Electronics.
 - Reshma J. Pandhare and **Rajesh M. Kamble**, 12th Asian Network for Natural and Unnatural Materials, IIT Bombay, 20–22 July 2024 (**Poster: P-28**).

- 5. Exploring the Electrochemical Potential of CuCo₂O₄@Co₃O₄ Nanocomposite on Different Substrates for Supercapacitor Application (ICCMEPR-2024). Bhakti G. Thali and Rajesh M. Kamble, International Conference on Composite Materials for Environment Protection & Remediation organized by Gram Bharti College, Ramgarh, Kaimur, Bihar, India in association with Research Plateau Publishers, 2–3 July 2024 (Poster: I-113).
- 6. Comparative Electrochemical Performance of CuCo₂O₄@Co₃O₄ Nanocomposite on GCE and NF forSupercapacitor Application. Bhakti G. Thali and Rajesh M. Kamble, Sciexpo Poster Presentation Competition, Nanoholix-5.0, National Centre for Nanosciences and Nanotechnology, University of Mumbai, April 29, 2024. (Poster Competition: 1st Prize)
- 7. D—A Based Violet—Red Light Emitting Indolo[2,3-*b*]quinoxalin-2-yl(phenyl)methanone Amine Dyes With Opto-electrochemical Properties for Organic Electronics.
 - Reshma J. Pandhare and **Rajesh M. Kamble**, Sciexpo Poster Presentation Competition, Nanoholix-0.5, National Centre for Nanosciences and Nanotechnology, University of Mumbai, April 29, 2024. (**Poster Competition: 2nd Prize**)
- 8. D–A Based Indolo[2,3-*b*]quinoxalin-2-yl(phenyl)methanone Amine Derivatives as Violet–Red Emitters for Organic Electronics.

 Reshma J. Pandhare and **Rajesh M. Kamble**, 3rd DAE-BRNS Symposium on Current Trends in Analytical Chemistry (CTACT-2023), Analytical Chemistry Division, Bhabha Atomic Research Centre Mumbai-400085, 6–9 March 2024 (**Poster: I-22**).
- 9. D–A Based Violet–Red Light Emitting Indolo[2,3-*b*]quinoxalin-2-yl(phenyl)methanone Amine Dyes with Opto-electrochemical Properties for Organic Electronics.
 - Reshma J. Pandhare and **Rajesh M. Kamble**, National Conference on Advances in Polymer Science and Technology (APST-2024), Organized by the Department of Chemistry, University of Mumbai in Collaboration with Society for industrial Chemistry, Mumbai, India, March 16, 2024 (**Poster: PP38: 1**st **Prize**)
- 10. D-A-A-D Based Biquinoxaline Amine Derivatives as AIE Active and Blue-Orange Emitters for Organic Electronics.
 - Suraj S. Mahadik and **Rajesh M. Kamble**, National Conference on Advances in Polymer Science and Technology (APST-2024), organized by the Department of Chemistry, University of Mumbai in Collaboration with the Society for Industrial Chemistry, Mumbai, India, March 16, 2024 (**Oral: OP12**).
- 11. Synthesis and Characterization of Graphene–SrO/SnO₂nanocomposite as electrode material for high-performancesupercapacitor.
 - Bhakti G. Thali, Chhaya H. Medar, and **Rajesh M. Kamble**, National Conference on Advances in Polymer Science and Technology (APST-2024), organized by the Department of Chemistry, University of Mumbai in Collaboration with Society for Industrial Chemistry, Mumbai, India, March 16, 2024. (**Poster: PP34**)

- 12. Synthesis, Characterization and Optoelectronic Studies of Donor-Acceptor based Heterocyclic Compounds for Organic Electronics.

 Suraj S. Mahadik and **Rajesh M. Kamble**, 35th Research Scholar's Meet 2024, Indian Chemical Society (Mumbai Branch), and Institute of Science Dr. Homi Bhabha State University, Mumbai, 23 and 24 February, 2024. (**OP–25**)
- 13. Synthesis, Characterization and Applications of NiO-CoO-MgO Nanocomposite. Namrata Dudhal, Bhakti G. Thali, Dhiraj S. Agrahari and **Rajesh M. Kamble**, ICSSR Sponsored Two-Day National Level Conference on Novel Materials for Harnessing Green Hydrogen for Energy and Environment Applications: A Step Forward Towards the National Hydrogen Mission at PG Department of Chemistry, NGM College, Pollachi, Tamil Nadu India, 23–24 March, 2023 (**OP-8**)
- 14. Synthesis and Characterization of Mn-based ternary nanocomposite as an electrode material for high-performance supercapacitor.
 Aditi R. Prasad, Bhakti G. Thali and Rajesh M. Kamble, International Conference on Materials for Energy Generation and Storage (ICME 2023) at Department of Physics, Loyolla College, Chennai, 16 March, 2023. (Best Poster presentation award)
- 15. Synthesis of Copper based binary nanocomposite for energy storage application. Bhakti G.Thali and **Rajesh M. Kamble**, International Virtual Conference on Recent Trends in Physics 2023 (IRCTP-2023) at PG & Research Department of Physics, Jayaraj Annapackiam College for Women, (Autonomous), Periyakulam, Theni District, India, 15–16 March, 2023.(**OP-11**)
- 16. D–A–D Based Pyrido[2,3-*b*]pyrazine Amine Derivatives for Organic Electronics. Deepak M. Kapse, **Rajesh M. Kamble**, National Conference on Recent Advances In Chemical Sciences (RACS 2023). Organized by Department of Chemistry, Shri Vile Parle Kelavani Mandal's Mithibai College of Arts, Chauhan Institute of Science & Amrutben Jivanlal College of Commerce and Economics (Autonomous) Mumbai, India, 23rd February 2023. (OP–04)
- 17. Optoelectrochemical Properties of Novel D-A-A-D Based Biquinoxaline Amine Derivatives as AIE Active and Blue-Orange Emitters for Organic Electronics. Suraj S. Mahadik and **Rajesh M. Kamble**, International Conference on Novel Swings In Chemical Sciences (NSCS-2022), Department of Chemistry, Thakur College of Science and Commerce, Kandivali, Mumbai, India, 23rd December, 2022. (OP)
- Pyrido pyrazine Amine Derivatives for Application in Organic Electronics.
 Deepak M. Kapse, Rajesh M. Kamble, Aavishkar Inter-Department Research Convention 2022–2023. Category-Pure Science, Level-PPG, at University of Mumbai 15–17 December 2022. (PP-S113307)
- Novel D-A-A-D Based Biquinoxaline Amine Derivatives as Blue-Orange Emitters for Organic Electronics.
 Suraj S. Mahadik and Rajesh M. Kamble, 9th Interdisciplinary Symposium on

Materials Chemistry (ISMC), Society for Materials Chemistry, Mumbai and

- Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai-400085, India, 7–10th December, 2022. (PP)
- 20. Design, Synthesis and Opto-electrochemical Properties of Novel D-A-A-D Based Biquinoxaline Amine Derivatives as Blue-Orange Emitters for Organic Electronics. Suraj S. Mahadik and **Rajesh M. Kamble**, Second International Virtual Conference on Current Scenario in Chemical Sciences (CSCS-2022), Khandesh College Education Society's, Moolji Jaitha College, Jalgaon, India, 16th and 17th September, 2022. (OP)
- 21. Nanosearch-One solution to all problems.
 - Archana Gawkar, Bhakti G. Thali and Rajesh M. Kamble, Nano-depict oral presentation competition, Nanoholix-4.0, National Centre for Nanoscience and Nanotechnology, University of Mumbai, 21–22 March, 2022 (Oral presentation competition- First Prize)
- 22. Synthesis, characterization and optoelectrochemical studies of heterocyclic systems for organic electronics.
 Pooja S. Singh and Rajesh M. Kamble, 33rd Research Scholars' Meet (RSM-2022), Indian Chemical Society and Kishinchand Chellaram College, Mumbai, India, 18–19th March 2022 (Best Presentation Award)
- 23. Opto-electrochemical Studies of Pyrido(2,3–b)pyrazine Amine Derivatives for Organic Electronic. Deepak M. Kapse and **Rajesh M. Kamble**, Royal Society of Chemistry's 2022 #RSCPoster Twitter Conference. Lead organiser, 2022#RSCPoster Twitter Conference Royal Society of Chemistry, 2nd March 2022. (Which are featuring as well as **tag [with my research article published in RSC Advances 2022, 12, 6888]** this in an online collection that highlights research presented at the #RSCPoster twitter conferences 2022).
- 24. Synthesis and Optoelectrochemical Studie of 2,3-Di(pyridin-2-yl)quinoxaline amine derivatives as blue-orange emitters for organic electronics. Suraj S. Mahadik and **Rajesh M. Kamble**, 6th International Conference on Recent Advances in Material Chemistry (ICRAMC-2022), Department of Chemistry, SRM Institute of Science & Technology, Kattankulathur, Tamilnadu, India, 17–19th February 2022.
- 25. Quinoxaline Amines: Nano-assembled AIE active, Ambipolar Materials for Organic Electronics.
 - Pooja S. Singh and **Rajesh M. Kamble**, Proceedings of DAE-BRNS, 8th Interdisciplinary Symposium on Materials Chemistry (ISMC-2020), Chemistry Division, Bhabha Atomic Research Centre Mumbai-400085, India and Society for Materials Chemistry, India, 17th—19th June 2021 (MS-L-122).
- 26. Nano-assembled AIE active Quinoxaline Amines for Organic Electronics. Pooja S. Singh and **Rajesh M. Kamble**, Golden Jubilee "International Conference on Nanomaterials & Nanotechnology" (GD-ICONN-2021), Department of Physics, University of Mumbai-400098, India, 25th –27th March 2021 (OP-14, Secured First Prize)

- 27. Design, Synthesis and Opto-electrochemical Properties of Novel Donor-Acceptor based 2,3-Di(hetero-2-yl)pyrodo[2,3-b]pyrazine amine derivatives as Blue-Orange Fluorescent Materials for Organic Electronics.

 Suraj S. Mahadik and **Rajesh M. Kamble**, International Conference on Fundamental and Applied Sciences (ICFAS 2021), Faculty of Science and I.Q.A.C., Hazarimal Somani College of Arts and Science, Chowpatty, Mumbai 400007, India, 24th—26th March 2021 (OP, CS-10, **Secured First Prize**).
- 28. Donor–Acceptor–Donor based Quinoxaline-Amine Derivatives: AIE active Ambipolar Materials for Organic Electronics.

 Pooja S. Singh and **Rajesh M. Kamble**, International Conference on Fundamental and Applied Sciences (ICFAS 2021), Faculty of Science and I.Q.A.C., Hazarimal Somani College of Arts and Science, Chowpatty, Mumbai 400007, India, 24th–26th March 2021 (CS-13).
- 29. Nano-assembled AIE active Quinoxaline-amine Derivatives for Optoelectronics. Pooja S. Singh and **Rajesh M. Kamble**, International E-Conference on "Futuristic Aspects in Nanotechnology" (ICFAN-2021), Department of Chemistry, Karmaveer Bhaurao Patil College, Vashi, India under the Aegis of RUSA, 15th—16th March 2021 (OP-14).
- 30. Novel Donor–Acceptor Based 2,3-Di(hetero-2-yl)pyrido[2,3-b]pyrazine Amine Derivatives as Blue-Orange Fluorescent Materials for organic electronics. Suraj S. Mahadik and **Rajesh M. Kamble**, International Conference on Emerging Trends in Computational and Materials Chemistry Research (ICCMCR), Department of Chemistry, Kumbalathu Sankupillai Memorial Devaswom Board College, Sasthamcotta, Kollam, Kerala 690 521, India 9–12 November 2020 (OP–26).
- 31. Synthesis and Optoelectrochemical Studies of Novel 2,3-di(furan-2-yl)quinoxaline Amine Derivatives as Hole Transporting Materials for Organic Electronics. Suraj S. Mahadik, Arun R. Gavit and **Rajesh M. Kamble**, National Conference on "Disruptive Technology in Shaping the Feature with Innovations" Department of Chemistry, Karmaveer Bhaurao Patil College, Vashi, Navi Mumbai-400 703 India 5–6 March, 2020 (PP **Best Poster Award 2nd Prize**)
- 32. Optoelctrochemical Study of Blue Light emitting pyridopyrazino[2,3*b*]indole derivatives.
 - Pooja S. Singh, Akshata J. Shirgaonkar, Bhargavi K. Chawathe, and **Rajesh M. Kamble**, National Conference on "New Dimensions of Chemistry", Department of Chemistry, Wilson College, Mumbai, India, 1st February 2020 (PP–2 **Best Poster Award 1st Prize**). And in NANOHOLIX–3.0 at National Centre for Nanosciences and Nanotechnology, University of Mumbai, Mumbai, India, 25th February 2020 (**Secured 2nd Position in NanoDepict for Poster Presentation**)
- 33. 6*H*–indolo(2,3–*b*)quinoxaline derivative as Blue-Red Emmisive Ambipolar Materials for Organic Electronics.
 - Deepali N. Kanekar, Sudhakar S. Dhanawade, Anand B. Jadhav and **Rajesh M. Kamble**, National Conference on Recent Trends in Chemistry (NCRTC-2020),

- Department of Chemistry, The Institute of Science, Dr. Homi Bhabha State University, Mumbai, India, 13–14 February, 2020 (PP-2).
- 34. Nano-assembled Bipolar Quinoxaline-amine Derivatives for Optoelectronic Applications.
 - Pooja S. Singh and **Rajesh M. Kamble**, Nano *Express* 2019 at National Centre for Nanosciences and Nanotechnology, University of Mumbai, Santacruz (E), Mumbai-400098, 15–16 March 2019 (Young Scientist Research Award Oral Presentation).
- 35. Novel D-A-D Based AIE active Bipolar Quinoxaline Derivatives for Organic Electronics.
 - Pooja S. Singh and **Rajesh M. Kamble**, National Conference on Recent Trends in Chemistry (RTC-2019), Department of Chemistry, The Institute of Science, Mumbai, India, 14–15 February 2019 (OP–7).
- 36. Photophysical Study of Anthracene Derivatives as AIE Active Chromophores. Pragati Naik, Megha Kamble, Pooja S. Singh and **Rajesh M. Kamble**, National Conference on Recent Trends in Chemistry (RTC-2019), Department of Chemistry, The Institute of Science, Mumbai, India, 14–15 February 2019 (PP–8).
- 37. n-type Pyrazino-Phenazine Based Derivatives for Organic Electronics. Sonal S. Sanap, Deepali N. Kanekar and **Rajesh M. Kamble**, National Conference on Recent Trends in Chemistry (RTC-2019), Department of Chemistry, The Institute of Science, Mumbai, India, 14–15 February 2019 (PP–26).
- 38. Synthesis, Photophysical, Electrochemical and Theoretical Investigation of Organic Optical Materials.

 Deepali N. Kanekar and **Rajesh M. Kamble**, 31st Research Scholar's Meet 2019, Indian Chemical Society (Mumbai Branch), and School of Chemical Sciences, UM-DAE, Centre for Excellence in Basic Sciences, University of Mumbai, Santacruz (E), Mumbai-400098, 8–9 February 2019 (OP–19).
- 39. Solid state emissive-bipolar quinoxaline derivatives for Organic Electronics. Deepali N. Kanekar and **Rajesh M. Kamble**, DAE-BRNS 7th Interdisciplinary Symposium on Materials Chemistry (ISMC-2018), Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai-400085, India, 4–8 December 2018 (E–141; Nanoscale Advances Poster Prize by Royal Society of Chemistry, India Branch).
- 40. D–A–D Based Novel Quinoxaline Derivatives with Aggregation Induced Emmision (AIE) Activity for Organic Electronics.
 Pooja S. Singh and Rajesh M. Kamble, DAE-BRNS 7th Interdisciplinary Symposium on Materials Chemistry (ISMC-2018), Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai-400085, India, 4–8 December 2018 (E–142).

- 41. New Tetrazatetracene derivatives as Ambipolar materials for Organic Electronics. Deepali N. Kanekar and **Rajesh M. Kamble**, National Conference on Recent Developments in Chemical Sciences (RDCS-2018), Department of Chemistry, University of Mumbai, India, 8–9 March 2018 (OP–7 **Best Oral Award**).
- 42. Novel 2,3-dipheylquinoxaline derivatives: Yellow-Green Emitter and Ambipolar Materials for Organic Electronics.
 Pooja S. Singh and Rajesh M. Kamble, National Conference on Recent Developments in Chemical Sciences (RDCS-2018) Department of Chemistry, University of Mumbai, India, 8–9 March 2018 (PP–59).
- 43. Synthesis, Photophysical, Electrochemical and Theoretical Investigation of Anthraquinone—Amine Based Donor-Acceptor Derivatives for Ambipolar materials. Azam M. Shaikh and **Rajesh M. Kamble**, National Conference on Recent Developments in Chemical Sciences (RDCS-2018) Department of Chemistry, University of Mumbai, India, 8–9 March 2018 (PP–16 **Best Poster Award**).
- 44. Triarylamines based on acenaptho[1,2–b]pyrido[2,3–e]pyrazineas n-type materials for Organic Electronics.

 Manju Yadav, Manjinder K. Manni, Pooja Shigaonkar, Pooja S. Singh, Deepak M. Kapse and **Rajesh M. Kamble**, National Conference on Recent Developments in Chemical Sciences (RDCS-2018) Department of Chemistry, University of Mumbai, India, 8–9 March 2018 (PP–45 **Best Poster Award**).
- 45. Synthesis and Optoelectronic studies of Acenapthoquinoxaline derivatives. Bhakti G. Thali, Akash Paswan, Deepika Yadav, Deepali N. Kanekar, Suraj Mahadik and **Rajesh M. Kamble**, National Conference on Recent Developments in Chemical Sciences (RDCS-2018) Department of Chemistry, University of Mumbai, India, 8–9 March 2018 (PP–17).
- 46. Synthesis and Optoelectrochemical Studies of 2,3-di(thiophen-2-yl)quinoxaline Derivatives as Hole-transporting Materials for Organic Electronics. Suraj S. Mahadik and **Rajesh M. Kamble**, International Conference on Advances in Chemical Sciences (ICACS-2018), Department of Chemistry, Shivaji University, Kolhapur 416004, 1–3 February 2018 (PP–91).
- 47. Synthesis and Optoelectrochemical Studies of Pyrido[2,3-*b*]pyrazine Amine Derivatives as Green Light Emitter for Organic Electronics.

 Deepak M. Kapse and **Rajesh M. Kamble**, International Conference on Advances in Chemical Sciences (ICACS-2018), Department of Chemistry, Shivaji University, Kolhapur 416004, 1–3 February 2018 (OP–10) (Consolation Prize)
- 48. Synthesis, Characterization, Opto-electrochemical and Theoretical Studies of Functionalized Heteroaromatics for Organic Electronics.

 Azam M. Shaikh and **Rajesh M. Kamble**, 29th Research Scholar's Meet 2017, Indian Chemical Society (Mumbai Branch), and Dept. of Chemistry, St. Xavier's College, Mumbai-400001, 17–18 February 2017 (OP–12).

- 49. Novel small π -congugated organic materials based on Donor-Acceptor architecture for applications in Organic Electronics.
 - Bharat K. Sharma and **Rajesh M. Kamble**, 29th Research Scholar's Meet 2017, Indian Chemical Society (Mumbai Branch), and Dept. of Chemistry, St. Xavier's College, Mumbai-400001, 17–18 February 2017 (OP–8).
- 50. Anthraquinone-Imidazole Derivatives as Air Stable n-Type Materials for Organic Semiconductors: Synthesis, Optoelectronic, Thermal and Theoretical Studies.

 Bharat K. Sharma and **Rajesh M. Kamble**, DAE-BRNS 6th Interdisciplinary Symposium on Materials Chemistry (ISMC-2016), Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai-400085, India, 6–10 December 2016 (M–105; **Best Paper Award–1**st **Prize**).
- 51. Synthesis and Optoelectronic Investigations of 3,6,11-Trisubstitued-Dibenzo[a,c]Phenazine Derivatives as Hole Transport Materials for Organic Electronics.
 - Azam M. Shaikh and **Rajesh M. Kamble**, DAE-BRNS 6th Interdisciplinary Symposium on Materials Chemistry (ISMC-2016), Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai-400085, India, 6–10 December 2016 (M-103).
- 52. Indoloquinoxaline Derivatives of Anthraquinone as Red Fluorescent n-type Materials for organic Electronics.
 - Deepali N. Kanekar, Bharat K. Sharma and **Rajesh M. Kamble**, DAE-BRNS 6th Interdisciplinary Symposium on Materials Chemistry (ISMC-2016), Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai-400085, India, 6–10 December 2016 (M–106).
- 53. Colour Tuning in Indoloquinoxaline—based small molecules as Blue—Red Fluorescent Chameleons for Optoelectronic Applications.
 M. Manigandan, Supriya Gavande, Bharat K. Sharma and Rajesh M. Kamble, National UGCSAP Workshop on Advanced Functional Materials: Synthesis to Applications, Department of Physics, University of Mumbai, India, 21–22 March

2016 (PP).

- 54. Red Fluorescent Indoloquinoxaline derivatives of Anthraquinone as Efficient Emitters for Organic Red–Light–Emitting Diodes.

 Supriya Gavande, Bharat K. Sharma and **Rajesh M. Kamble**, National UGCSAP Workshop on Advanced Functional Materials: Synthesis to Applications, Department of Physics, University of Mumbai, India, 21–22 March 2016 (PP).
- 55. Optoelectronic and Thermal Studies of 6-methyl-6*H*-indolo[2,3-*b*]quinoxaline Derivatives for Organic Electronics.

 Sandesh Gaikwad, Azam M. Shaikh and **Rajesh M. Kamble**, National UGCSAP
 - Workshop on Advanced Functional Materials: Synthesis to Applications, Department of Physics, University of Mumbai, India, 21–22 March 2016 (PP).

- 56. Triarylamines based on benzo[g]quinoxalines: Donor-Acceptor Electroluminescent Materials.
 - Sandeep C. Surve, Azam M. Shaikh, Bharat K. Sharma and **Rajesh M. Kamble**, International Conference on Materials for the Millennium (MatCon 2016), Department of Applied Chemistry, Cochin University of Science and Technology, Kochi-682022, India, 14–16 January 2016 (OPM19).
- 57. Donor-Acceptor based Triarylamines containing Xanthone and Acridone/amine segments as Electroluminescent Materials.
 - Bharat K. Sharma and **Rajesh M. Kamble**, International Conference on Materials for the Millennium (MatCon 2016), Department of Applied Chemistry, Cochin University of Science and Technology, Kochi-682022, India, 14–16 January 2016 (OPM20).
- 58. Triarylamines based on Naphtho[2,3-*f*]quinoxaline-7,12-dione: Synthesis and Optoelectronic properties.
 - Azam M. Shaikh and **Rajesh M. Kamble**, International Conference on Materials for the Millennium (MatCon 2016), Department of Applied Chemistry, Cochin University of Science and Technology, Kochi-682022, India, 14–16 January 2016 (OPM21).
- 59. Synthesis, Optical, Electrochemical and Thermal Studies of Triarylamines based on Benzo[g]quinoxalines and Naphtho[2,3-f] quinoxaline-7,12-dione derivatives. Azam M. Shaikh and **Rajesh M. Kamble**, International Conference on New Horizons in Synthetic and Materials Chemistry (ICSMC-2015), Department of Chemistry, University of Mumbai, India, 26–28 November 2015 (OP–18).
- 60. Optoelectronic Investigation of Naphtho[2,3-f]quinoxaline-7,12-dione derivatives: Electron Deficient Molecules. Sukanya V. Kodere, Azam M. Shaikh, and **Rajesh M. Kamble**, International Conference on New Horizons in Synthetic and Materials Chemistry (ICSMC-2015), Department of Chemistry, University of Mumbai, India, 26–28 November 2015 (PP–87).
- 61. Synthesis, Photophysical and Electrochemical Properties of Acridone and Xanthoneamines based Donor-Acceptors as Hole-transporting Materials for Electroluminescent Devices.
 - Bharat K. Sharma, Azam M. Shaikh and **Rajesh M. Kamble**, International Conference on New Horizons in Synthetic and Materials Chemistry (ICSMC-2015), Department of Chemistry, University of Mumbai, India, 26–28 November 2015 (PP–151).
- 62. Annelated Thioxanthones 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).

- 63. 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).
- 64. 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)
- 65. 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).
- 66. 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 Paper Award–3rd Prize**).
- 67. 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).
- 68. 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).
- 69. 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).
- 70. Study of Physico-Chemical Characterstics 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).
- 71. 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).
- 72. 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).
- 73. 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).
- 74. 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).

Invited lectures delivered at various Universities and Research Institutes

- 1. Functional Organic Materials for Optoelectronic Applications.
 - "UGC Sponsored 4th Online Refresher Course in Chemistry" organized by UGC-Malaviya Mission Teacher Training Centre (UGC-HRDC) of Gujarat University, Ahmedabad, Gujarat (9th October to 22nd October 2023) (13th October 2023; Video lecture link is: https://www.youtube.com/watch?v=Feob_GdlIW0)
- 2. AIE active D-A-D based Functional Organic Materials for Organic Electronics.
 - National Conference on Emerging Trends in Chemical Sciences: Pioneering the Future (ETCS), 2nd December 2023, Organized by Department of Chemistry, Shri. Maneklal M Patel Institute of Sciences & Research, Kadi Sarva Vishwavidhyalaya, Gandhinagar, Gujarat, India
- Donor-Acceptor featured AIE active Functional Carbazole Materials for Optoelectronic Applications.
 International Hybrid Conference on Nano Structured Materials and Polymers (ICNP)
 - 2023) May 12–14, 2023 Organized by International and Inter University Center for

Nanoscience and Nanotechnology (IIUCNN) & School of Nanoscience and Nanotechnology & School of Energy Materials (SEM) Mahatma Gandhi University, P.D Hills P.O, Kottayam Kerala, India & Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram-Kerala, INDIA & Gdansk University of Technology, Chemical Faculty Gdansk, Poland & Wroclaw University of Technology Faculty of Electrical Engineering Wroclaw, Poland & University of Johannesburg, Johannesburg, South Africa IJL, University of Lorraine, Nancy, France (IL-120)

- 4. Donor-Acceptor featured AIE active Organic Functional Materials for Applications in Organic Electronics.
 - "National Seminar on Current Advances in Chemical Sciences (CACS-2023)" 6th April 2023, organized by Department of Chemistry, A. E. V. P. M. Women's College of BCA, Aurangabad, MS, India
- 5. Spectrofluorophotometry: Fundamentals and Applications. "Ph.D. Course Work in Chemistry", Sir Parashurambhau College, Pune, India on Tuesday, 20th December 2022.
- 6. D–A–D based Pyrido-pyrazino[2,3-b]indole Amines: Photophysical, AIE and Electrochemical studies. "UGC Sponsored 3rd Online Refresher Course in Chemistry" organized by Department of Chemistry and UGC Human Resource Development Centre, Gujarat University, Ahmedabad, Gujarat (21st June to 4th July 2022) (24th June 2022; Video lecture link is: https://youtu.be/XJ3V-2SetlE)
- 7. Functional Organic Materials for Application in Organic Electronics. "International Online Conference on Energy Sciences (ICES 2021)" 10th to 12th December 2021 Organized by School of Energy Materials (SEM), Mahatma Gandhi University, Kottayam, Kerala & National University Of Science and Technology, Oman & Wroclaw University of Technology Wroclaw, Poland (IL-13)
- 8. Organic Functional Materials for Optoelectronic Applications.
 Online 2nd Pre-Ph.D. Workshop organized by School of Basic Sciences, Department of Chemistry, Jaipur National University, Jaipur, Rajasthan, India from 1st to 3rd December, 2021 (2nd Dec. 2021)
- 9. ICT featured AIE active Carbazole derivatives for Optoelectronic Applications. UGC Sponsored Online Refresher Course on "Recent Advances in Chemical Science and Technology", UGC-HRDC Centre and Department of Chemistry, University of Mumbai, Mumbai, 24th September 2021 (15/09/2021 to 28/09/2021)
- Carbazole based Donor-Acceptor Functional Organic Materials for Applications in Organic Electronics.
 "UGC Sponsored 2nd Online Refresher Course in Chemistry" organized by

Department of Chemistry and UGC Human Resource Development Centre, Gujarat University, Ahmedabad, Gujarat (23rd August 2021; Video lecture link is: https://youtu.be/XJ3V-2SetlE)

- 11. Novel Functional Organic Materials for Applications in Organic Electronics. "UGC Sponsored 1st Online Refresher Course in Chemistry" organized by Department of Chemistry and UGC Human Resource Development Centre, Gujarat University, Ahmedabad, Gujarat (29th September 2020; Video lecture link is: https://youtu.be/eVH39QVigXs)
- 12. Donor-Acceptor based AIE active Heterocyclic Materials for Organic Electronics. UGC refresher course in "Recent Developments in Applied Chemistry (RDAC)" organized by Department of Chemistry under the aegis of the UGC Human Resource Development Centre, University of Mumbai (13th November 2019).
- 13. AIE Active—Bipolar Quinoxaline Derivatives for Organic Electronics. UGC refresher course in "Recent Advances in Chemical Sciences and Technology" organized by Department of Chemistry, University of Mumbai (28th November 2018).
- 14. Functionalized Triarylamines for Applications in Organic Electronics.
 54th Annual Convention of Chemists of Indian Chemical Society, Department of Chemistry, Uka Tarsadia University, Bardoli, Surat, Gujarat (25th December 2017)
 [ING(IL)-07]
- 15. Fundamentals and Applications of Gas Chromatography. UGC refresher course in "Advances in Materials Chemistry and Technology (AMCT)" organized by Department of Chemistry, University of Mumbai (10th November 2017).
- 16. Functionalized Heterocyclic Triarylamines for Applications in Optoelectronic Devices.

UGC refresher course in "Advances in Materials Chemistry and Technology (AMCT)" organized by Department of Chemistry, University of Mumbai (10th November 2017).

17. Functionalized Heteromatics for Organic Electronics.

UGC refresher course in "Advances in Chemical Sciences" organized by Department of Chemistry, University of Mumbai (18th October 2016).

- 18. 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).
- 19. Organic Semiconductors.

 UGC refresher course in "Frontiers in Chemical Sciences" organized by Department of Chemistry, University of Mumbai (18th November 2013).
- 20. 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).

- 21. 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).
- 22. 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).