

Department of Chemistry

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Qualification	Ph.D. (Organic Chemistry), M. Sc., NET, SET, GATE
Area of interest	Color Chemistry, Photovoltaics, Functional Materials, Renewable Energy Sources, Dye Sensitized Solar Cell, NIR-absorbing/emitting molecules, Green Chemistry, Synthetic Organic Chemistry,
EXPERIENCE (As on July-2017)	
Industrial	6 Months
Research	6 Years and 6 Months
Teaching	3 Years
Honors and awards	
<ul style="list-style-type: none"> ➤ UGC - Senior Research Fellowship, 2013-2016, Given by University Grants Commission, India. ➤ UGC - Junior Research Fellowship, 2011-2013, Given by University Grants Commission, India. ➤ CSIR-UGC National Eligibility Test (NET), December 19, 2010, given by All India Council of Scientific and Industrial Research and University Grants Commission, India. Eligibility for Lectureship and research fellowship. ➤ UGC State Eligibility Test (SET), December 12, 2010, given by University Grants Commission, Eligibility for Lectureship, conducted by University of Pune, India. ➤ Graduate Aptitude Test in Engineering (GATE), 2011, given by Indian Institute of Technology (IIT) Madras, on behalf of the National Coordination Board (NCB), Department of Higher Education (DHE), Ministry of Human Resource Development (MHRD), Government of India (GOI). ➤ Ph.D. Entrance Test (PET), July 10, 2010, eligibility for Ph.D. by Institute of Chemical Technology (ICT), Matunga, Mumbai, Maharashtra, India. ➤ Ph.D. Entrance Test (PET), September 15, 2010, eligibility for Ph.D. by University of Mumbai, Maharashtra, India. ➤ 2nd ranked prize in International Ozone Day Quiz Competition organized by Maharashtra Pollution Control Board, Institute of Chemical Technology and World Forum for Crystallization Filtration and Drying, (2011). ➤ Maharashtra State Government Eklavya scholarship in Post graduation level (2009-2010). ➤ Dr. Babasaheb Ambedkar Award - 1st ranked in M.Sc. (Organic Chemistry) (2009-2010). ➤ Kakasaheb Barve Award for 1st ranked in F.Y.B.Sc. (2005-06) and T.Y.B.Sc. (2007-08) of Bachelor degree at S.P.D.M. ACS College, Shirpur, Dist. Dhule, and Maharashtra, India. 	

- **Ideal Student Award (2006-07)** - S.P.D.M. ACS College, Shirpur, Dist. Dhule, Maharashtra, India.
- **2nd ranked prize in Fourth modified Leprosy-diagnosis and treatment Quiz Competition** organized by District Leprosy Society, Dhule, Maharashtra, (2002).

Guest Lecture delivered

- Visiting Lecturer as **Resource Person** delivered lecture on topic entitled as Chemistry & Career guidance, and also **1st State Level Workshop on NET/SET Exam preparation (2015)**.

List of Publications

- 1) Synthesis and Optical response to Acids and Bases of a new Substituted Dihydro Benzo[a]phenazines Chromophore.
***Tetrahedron* 2016, 72, 7968-7974.**
- 2) Lawsone – DAMN Based Colorimetric Chemosensor for Rapid Naked – Eye Detection of Mercury (II).
***New Journal of Chemistry*, 2016, 40, 6803-6811.**
- 3) NIR – Emitting Quinone – Fused Coumarin Dyes: Aqueous mediated, Catalyst Free Synthesis and their Optical properties.
***Tetrahedron Letters*, 2016, 57, 3100-3104.**
- 4) Disperse Styryl and Azo dyes for Polyester and Nylon Fibre: Synthesis, Optical Properties having the 1, 2, 4-triketo naphthoquinone Skeleton.
***Fibers and Polymers*, 2015, 16 (5), 1068 – 1074.**
- 5) Synthesis, Optical Properties, Dyeing study of Dihydropyrimidones (DHPM) skeleton: Green and Regioselectivity of Novel Biginelli Scaffold from Lawsone.
***Fibers and Polymers*, 2015, 16 (11), 2349 – 2358.**
- 6) Condensation Pigments for Pigment Printing of Cotton - Synthesis, Photophysical Properties, TD-DFT studies.
***Fibers and Polymers*, 2015, 16 (4), 809 – 818.**
- 7) Study on Synthesis and Fluorescence of Novel Benzofused phenazine π -conjugated skeleton with coumarin and isophoron cores.
***Journal of Fluorescence*, 2015, 25 (6), 1095 – 1102.**
- 8) Styryl dyes from 4-chloro-2-(diphenylamino)-1, 3-thiazole-5-carbaldehyde - Synthesis, Optical properties and TDDFT computations.
***Journal of Fluorescence*, 2015, 25 (6), 1787 – 1800.**
- 9) Phenazines and Thiazine: Green Synthesis, Photophysical Properties, Dichroic Behavior in Nematic Host.
***Canadian Chemical Transaction*, 2014, 2, 365 – 380.**
- 10) Solvatochromism, halochromism, and azo-hydrazone tautomerism in novel V-shaped azo-azine colorants – consolidated experimental and computational approach.
***Coloration Technology*, 2016, 132, 1-12.**

Seminar/ Conference / Symposia

- 1) Successfully participated and attended in one day workshop entitled “**Challenges emerging from RUSA and new education policy**” organized by Bombay University and College Teachers Union (BUCTU), University of Mumbai (2016).
- 2) Successfully participated and attended in one day workshop entitled “**Intellectual Property Rights (IPR)**” organized by University of Mumbai in collaboration with Rashtriya Uchchar Shiksha Abhiyan (RUSA) & Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIPM), Nagpur (2016).
- 3) **Successfully participated and presented paper entitled *A Lawsonite – DAMN Based Colorimetric Chemosensor for Rapid Naked – Eye Detection of Mercury (II) in International Multidisciplinary Conference – 2016*** organized jointly by International Association of academicians and Researchers (INAAR) & Adivasi Pragati Mandal Sanchalit, Comrade Godavari Shamrao Parulekar College of Arts, Commerce & Science, Talasari DT-Palghar (2016). (Oral presentation).
- 4) Selected and actively participated in the **102nd Indian Science Congress – 2015** organized at University of Mumbai (2015).
- 5) Selected and actively participated in the **Seventh Science Conclave & Inspire Internship Program - 2014**, organized at the Indian Institute of Information Technology (IIIT), Allahabad (2014).
- 6) Successfully participated and presented paper entitled “*Disperse dyes for Nylon and Polyester Fibre: Synthesis, Optical properties Novel Disperse styryl and azo Dyes having the 1, 2, 4-triketone naphthoquinone skeleton*” at **4th National Symposium on Functional Applications of Colorants (NSFAC- 2014)**, Organized by Institute of Chemical Technology, Matunga, Mumbai (2014). (Oral presentation).
- 7) Successfully participated and presented paper entitled “*NIR – Emitting Quinone – Fused Coumarin Dyes: Aqueous mediated, Catalyst Free Synthesis and their Optical properties*” at **4th National Symposium on Functional Applications of Colorants (NSFAC- 2014)**, Organized by Institute of Chemical Technology, Matunga, Mumbai (2014). (Oral presentation).
- 8) Successfully participated and presented paper entitled “*Biginelli reaction: A Green and Regioselective Protocol Using Microwave and Ultrasonic Irradiation and Study of their Photo-physical properties*” at **Innovations in Chemistry-Laboratory to Society (ICLS-2013)**, Organized by School of Chemical Sciences, North Maharashtra University, Jalgaon (2013). (Poster presentation).
- 9) Successfully participated and attended the **Convention on Colorants (COC)-2013**, organized jointly by Department of Dyestuff technology, Institute of Chemical Technology, Mumbai and Dyestuff Manufacturers Association of India (DMAI) at Gandhinagar, Gujarat, India.
- 10) Successfully participated and attended the **3rd National Symposium on Functional**

Applications of Colorants (NSFAC- 2013), Organized by Institute of Chemical Technology, Matunga, Mumbai (2013).

- 11) Successfully participated and attended the ***2nd National Symposium on Functional Applications of Colorants (NSFAC- 2012)***, Organized by Institute of Chemical Technology, Matunga, Mumbai (2012).
- 12) Successfully participated and presented paper entitled "*Aqueous mediated domino process for the synthesis of phenazines and quinoxalines under ultrasound irradiation*" at ***1st National Symposium on Functional Applications of Colorants (NSFAC- 2011)***, Organized by Institute of Chemical Technology, Matunga, Mumbai (2011).
(Poster presentation).
- 13) Successfully attended the ***Green Chemistry & Catalysis seminar - 2011***, organized by Institute of Chemical Technology, Matunga, Mumbai, India (2011).

Extra Curricular Activities

- Member of Organizing Committee in **International Multidisciplinary Conference - 2016** organized jointly by International Association of academicians and Researchers (INAAR) & Adivasi Pragati Mandal Sanchalit, Comrade Godavari Shamrao Parulekar College of Arts, Commerce & Science, Talasari DT-Palghar (2016).
- Member of Organizing Committee, Technical Committee and Accommodation Committee for **National Symposium on Functional Applications of Colorants (NSFAC-2011, 2012, 2013, 2014)** Organized by Department of Dyestuff Technology, Institute of Chemical Technology, Mumbai.
- **Bright performance & Runner up in Kabaddi - YUVAM 2015** Organized by Institute of Chemical Technology, Mumbai (2015).
- **Man of the series & 1st prize winner in Overarm Tennis ball cricket - SPORTSAGA 2014** Organized by Institute of Chemical Technology, Mumbai (2014).
- Successfully participated and completed **5.2 km race route at ICT MARATHON 2013, OUTRUNNING CANCER - SPORTSAGA 2013** Organized by Institute of Chemical Technology, Mumbai (2013).
- Successfully participated and Inspected as Scout for **MINI MARATHON 2015**, Organized by Adivasi Pragati Mandal Sanchalit, Comrade Godavari Shamrao Parulekar College of Arts, Commerce & Science, Talasari Dt-Palghar (2015).
- Successfully participated as **Examiner in the subject of chemistry drugs & dyes at TYBSc (Semester V) October 2014** examination to be held University of Mumbai (2014).
- **Bright performance & Runner up in Overarm Tennis ball cricket - YUVAM 2012** Organized by Institute of Chemical Technology, Mumbai (2012).