

Dr. Navanath J. Valekar

M.Sc., Ph.D.

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PERMANENT ADDRESS

A/P -Wakadi,
Tal-Paranda
Dist - Osmanabad-413502,
Maharashtra, India

PERSONAL DETAILS

Birth Date: 30th March 1987

Sex: Male

Nationality: Indian

Marital status: Married

ACADEMIC CREDENTIALS

Ph. D. in Chemistry

Department of Chemistry,
Shivaji University, Kolhapur 416004

Specialization: Organic Chemistry

Title of Ph. D. Thesis: “Metal Oxide Nanoparticles Catalysed Organic Transformations”

• Academic Record

Sr. No.	Course Name	Board/University	Subject studied	% of marks obtained	Class obtained	Year of passing
1.	Ph. D.	Shivaji University, Kolhapur	Chemistry	----	----	Awarded on 3 rd Nov 2015
2.	M. Sc.	SRTM University, Nanded	Organic Chemistry	62.91	First class	2010
3.	B. Sc.	Solapur University, Solapur	Chemistry	73.20	Distinction	2008

- **Doctoral Research**

- **2011 - 2015 Thesis Title:** “*Metal Oxide Nanoparticles Catalysed Organic Transformations*” Doctor of Philosophy (Ph.D.) in Chemistry submitted under the guidance of **Dr. P. V. Anbhule (Prof. in Organic Chemistry)** at Department of Chemistry, Shivaji University, Kolhapur
- **Work done/Duties performed:** Doctorate Research focused on synthesis of heterocyclic compounds using metal oxide nanoparticles

- **Teaching Experience**

- **2011 – 2014:** Worked as a **Contributory Teacher** for M.Sc. Industrial Chemistry, Analytical Chemistry and Organic Chemistry course, at Department of Chemistry, Shivaji University, Kolhapur
- **2015-2016:** Worked as a **Lecturer** for Diploma at RIT, Islampur
- **2016-Onward:** Worked as **Temporary Assistant Professor**, Applied Chemistry, Dept. of Chemistry, Shivaji University, Kolhapur

- **Duties performed** Teaching of theory & practical's to the M.Sc. students

Paper taught:

- ✓ Introduction of nanotechnology
- ✓ Instrumental methods of chemical analysis
- ✓ Organic Reactions
- ✓ Bio-organic Chemistry
- ✓ Medicinal Chemistry

- **Research Experience**

- **2013 – 2015:** Worked as a (UGC-BSR, Indian Government), **Junior Research Fellow (JRF)** on the doctoral work

Work done/Duties performed:

- **Synthesis of novel indeno-pyridine and indeno-pyran derivatives using CuO nanoparticles in water.**

• Awards/Achievements

- Awarded with the research **fellowship for meritorious student by University Grants Commission (UGC, Government of India) under UGC/BSR scheme in 2013-2015.**
- Passed the exam of “**Personality Development**” with ‘A’ grade (Maharashtra State) in 2003 (India).

LIST OF PUBLICATIONS

1. Electromagnetic shielding, magnetic and microwave absorbing properties of Polypyrrole/Ba_{0.6}Sr_{0.4}Fe₁₂O₁₉ composite synthesized via in-situ polymerization technique., Ninad Velhal, N.D. Patil, Gopal Kulkarni, S.K Shinde, **N. J. Valekar**, H.C. Barshilia, Vijaya Puri* *Journal of Alloys and Compounds, 2018, Volume 777, Pages 627-637.*
2. Glycerol Mediated Synthesis, Biological Evaluation and Molecular Docking Study of 4-(1H-pyrazol-4-yl)-polyhydroquinolines as Potent Antitubercular Agents. Dattatraya. K. Jamale, Santosh. S. Undare, **Navanath. J. Valekar**, Aniket P. Sarkate, Govind B. Kolekar, Prashant V. Anbhule* *Journal of Heterocyclic Chemistry, 2018, Doi.org/10.1002/jhet.3438*
3. An Efficient Protocol for the Synthesis of Pyrido[2,3-d]pyrimidines in Glycerol-Water Medium: Assessment by Green Chemistry Metrics : D. K. Jamale, **Navanath. J. Valekar**, S. P. Hangirgekar, Aniket P. Sarkate, Govind B. Kolekar, Prashant V. Anbhule*, *Macromolecular Symposia (Wiley Publisher) Just accepted Jan 2019.*
4. Unexpected Formation of 4,5-Dihydro-1 H-pyrazolo[3,4- b]pyridine Derivatives as a Potent Antitubercular Agents and its Evaluation by Green Chemistry Metrics : Dattatraya. K. Jamale, Sunil. S. Vibhute, Santosh. S. Undare, **Navanath. J. Valekar**, Kirti. T. Patil, Poojali. P. Warekar, Priyanka. T. Patil, Govind. B. Kolekar and Prashant. V. Anbhule* *Synthetic communications, 2018, VOL. 48, NO. 21, 2750-2760.*
5. Electroanalytical characterization of Nimesulide by Differential Pulse Polarography: Application to Pharmaceutical analysis. : Patil S. V.*, Kashid L. M., Kolekar G. B., **Valekar N. J.** and Tamhankar B. V.* *International Journal of Green and Herbal Chemistry (IJGHC) 2018 Sec. A; Vol7, No.4, 701.*
6. Synthesis and antimicrobial evaluation of 6-amino-4-(4-phenyl)-3-methyl-4,7-dihydro-1H-pyrazolo[3,4-b] pyridine-5-carbonitriles: **Navanath J. Valekar**, Santosh S. Undare, Dattatraya K. Jamale, Maruti J. Dhanavaded, Govind. B. Kolekar and Prashant V. Anbhule* *Bioorganic & Medicinal Chemistry Letters (Under Review)*
7. A simple and efficient one-pot novel synthesis of pyrazolo[3,4-b][1,8]naphthyridine and pyrazolo[3,4-d]pyrimido[1,2-a]pyrimidine derivatives as anti-inflammatory: Priyanka T Patil,

Poojali P Warekar, Kirti T Patil, Santosh S Undare, DK Jamale, SS Vibhute, **Navanath J. Valekar**, Govind B Kolekar, Madhukar B Deshmukh, Prashant V Anbhule *Research on Chemical Intermediates* **44 (2), 2018, 1119-11307.**

8. A bio-oriented anthranilic acid catalyzed synthesis of quinazolin-8 (4H)-one derivatives: Evaluation by Green Chemistry Metrics.: Sunil Vibhute, Dattatraya Jamale, Santosh Undare, **Navanath Valekar**, Kirti T. Patil, G. B. Kolekar and Prashant Anbhule *Synthetic communications*, **2017, 2017, 47, 1747-1757.**

9. An efficient, one-pot three components synthesis of [1,2,4] triazoloquinazolinone derivatives using anthranilic acid as green catalyst: Sunil S Vibhute, Dattatraya K Jamale, Santosh S Undare, **Navanath J Valekar**, Govind B Kolekar and Prashant V Anbhule* *Research on Chemical Intermediates*, **2017, Volume 43, Issue 8, pp 4561-4574.**

10. A simple and green synthesis of highly functionalized quinoline derivatives using zinc oxide nanoparticles **Navanath J Valekar**, Santosh S Undare, Dattatrya K Jamale, Sunil S Vibhute, Govind B Kolekar and Prashant V Anbhule* *IJC-B*, **2016, 12 (55B), 1548-1554.**

11. Uncatalyzed Four Component Synthesis of Pyrazolopyranopyrimidine Derivatives and Their Antituberculosis Activities: Kirti T. Patil, Dattatrya K. Jamale, **Navanath J. Valekar**, Priyanka T. Patil, Poojali, P. Warekar, Govind B. Kolekar & Prashant V. Anbhule* *Synthetic Communication*, **2017, VOL. 47, NO. 2, 111-120.**

12. Synthesis and characterization of 3,4-Dihydropyrimidine- 2 (1H)-one (DHPM)Derivatives Doped Acrylic Polymers for Thin Film Coatings: Balaji Walekar, Ramaraje Mane, Sameer Nadaf, **Navanath Valekar**, Popatrao Bhosale and Sambhaji Mane* *Macromolecular Symposia*, **2016, 361, 106-111**

13 Synthesis, anti-inflammatory, ulcerogenic and cyclooxygenase activities of indenopyrimidine derivatives. Santosh S. Undare, **Navanath J. Valekar**, Ajinkya A. Patravale, Dattatraya K Jamale, Laxman Walekar, Govind B. Kolekar, Madhukar B. Deshmukh, and Prashant V. Anbhule* *Bioorganic & Medicinal Chemistry Letters*, **2016, 26 (3), Pages 814-818.**

14 Sequence Selective Michael Addition for Synthesis of Indeno-Pyridine and Indeno-Pyran Derivatives in One-Pot Reaction Using CuO Nanoparticles in Water.: **Navanath J Valekar**, Prasad P Patil, Anil H Gore, Govind B Kolekar, Madhukar B Deshmukh, Prashant V Anbhule* *Journal of Heterocyclic Chemistry*, **2015, 52 (6), 1669-1676.**

15. One-pot synthesis and in vivo biological evaluation of new pyrimidine privileged scaffolds as potent anti-inflammatory agents. : Santosh S Undare, **Navanath J Valekar**, Ajinkya A Patravale, Dattatraya K Jamale, Sunil S Vibhute, Laxman S Walekar, Govind B Kolekar, MB Deshmukh and Prashant V Anbhule *Research on Chemical Intermediates*, **2016, Volume 42, pp 4373- 4386.**

Papers Presented in Conferences/Workshops/Seminars

1. Paper presented (Poster) in, Participated in two-day national Conference on *“National Conference on Innovative Research in Chemical Sciences”* on 1st & 2nd **January-2017**, hosted by Dept. of Chemistry, Shivaji University, Kolhapur
2. Paper presented (Poster) in, Participated in two-day national Conference on *“Recent Trends in Physical, Chemical and Biosciences [RTPCB-2016]”* on 16th & 17th **December 2106** and hosted by Dept. of Chemistry, Arts, Science & Commerce College Baramati
3. Paper presented (Poster) in, Participated in two-day national Conference on *“Recent Advances in Integrated Pest Management (RAIPM-2016)”* on 1st & 2nd **March-2016** and Organized by Dept. of AGPM, Shivaji University, Kolhapur
4. Paper presented (Poster) in, Participated in two-day national Conference on *“Frontiers in Chemical and Material Sciences”* in 16th & 17th **January 2015** and hosted by Dept. of Chemistry, Shivaji University, Kolhapur
5. Paper presented (Poster) in, International Conference *“Emerging Horizons in Biochemical*

Sciences & Nanomaterials" (EHBSCN-2013) held at Shri Shivaji Mahavidyalaya, Barshi during 28th to 30th **November, 2013**

6. Paper presented (Poster) in, "*Current Research in Chemical Sciences*" (CRCS-2013, National) held at Shivaji University, Kolhapur during 22nd and 23rd **January, 2013**
7. National conference on "*Current Trends in Chemical and Nano Sciences*" held at Department of Chemistry, Shivaji University, Kolhapur 17th-18th **January, 2014**
8. Paper presented (Poster) in "*National Seminar on Recent Advances in Synthetic Chemistry and Nanomaterials [RASCN-2012]*" held on 21st & 22th **January, 2012** organized by Department of Chemistry, Shivaji University, Kolhapur
9. Paper presented (Poster) in, Participated in two-day workshop on "*Research Writings, Ethics, Plagiarism and Publishability*" held at Shivaji University, Kolhapur during 26th & 27th **July, 2012**

