

Dr. Valekar Navanath Janrdhan,
(M.Sc., Ph.D.)

Assistant Professor,
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❖ **PROFESSIONAL INTEREST:**

- To create skills and interest in the students about Chemistry for the welfare of society.
- To create 'Research interest' in students' mind about Chemical Science to solve problems of society.

❖ **TEACHING / WORK EXPERIENCE:**

Teaching: **10 years Teaching Experience**

02/07/2016 to Till Today:- **Assistant Professor** Department of Applied Chemistry,
Shivaji University, Kolhapur, Maharashtra.

06/ 07/2015 to 11/04/2016:- **Lecturer** in Diploma, RIT, Islampur, Dist. Sangali

01/07/2011 to 10/05/2014:- **Contributory Teacher** Department of Industrial Chemistry,
Shivaji University, Kolhapur, Maharashtra

Awards: :- ***Awarded by UGC-BSR Meritorious Fellowship from UGC New Delhi.***

Research Topic: **11th July 2011 to 30th June 2015:** "Research Title "*Metal Oxide Nanoparticles Catalyzed Organic Transformations*".

❖ **ACADEMIC PROFILE:**

Class/ Degree	Board/University	Subject	Year	Marks (%) / remarks
Ph. D.	Shivaji University Kolhapur	Chemistry	Nov. 2015	Awarded
M. Sc.	Swami Ramanand Teerth Marathwada University, Nanded	Organic Chemistry	Aug. 2010	62.91(I st Class)
B. Sc.	Solapur University, Solapur	Chemistry	Apr. 2008	73.20 (I st Class With Distinction)
H.S.C.	Pune Board	Chemistry, Biology, Hindi, English etc.	Feb. 2005	60.83 (I st Class)
S.S.C.	Latur Board	Marathi, Hindi, English, maths, Science, Social Sciences etc.	Mar 2003	68.00 (I st Class)

❖ **Bibliometrics of Research Publications**

Total number of Publications = **20**

Granted Patent : **01 (German Patent on Breast cancer)**

Book Chapter = **02**

Books = **03**

Cumulative Impact Factor (Thomas and Reuters): **50.26**

Average Impact factor: **4.20**

➤ **Google Scholar citation Indices**

Citations = **281**

h-index = **10**

*i*10-index = **11**

➤ **SCOPUS Citation indices**

Author ID: 56938960700

Citations = **241**

h- index = **10**

❖ ***List of Publications:***

1. 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, 1669-1676, (6) 52, ISSN:1943-5193,(**IF. 2.035**), <https://doi.org/10.1002/jhet.2228>
2. 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, Prashant V Anbhule*, *Research on Chemical Intermediates*, 2016, (6) 42, 4373–4386, ISSN 1568-5675 (**IF. 2.8**), <https://doi.org/10.1007/s11164-015-2281-1>
3. 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, Madhukar B Deshmukh, Prashant V Anbhule*, *IJC-B*, 2016, 12, 55B, 1548,1554,ISSN03764699,09750983,(**IF.0.456**),<http://nopr.niscpr.res.in/handle/123456789/38594>
4. Synthesis, anti-inflammatory, ulcerogenic and cyclooxygenase activities of indenopyrimidine derivatives, Santosh S. Undare , **Navanath J. Valekar**, Ajinkya A. Patravale, Dattatraya K. Jamale , Sunil S. Vibhute , Laxman S. Walekar, Govind B. Kolekar, M. B. Deshmukh , Prashant V. Anbhule, *Bioorganic & Medicinal Chemistry Letters*, 26 (2016) 814–818, ISSN 0960-894X, (**IF.2.5**), <https://doi.org/10.1016/j.bmcl.2015.12.088>
5. 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. Wareka,Govind B. Kolekar, Prashant V Anbhule*,*Synthetic Communications*, 2017, 47, 111-120, ISSN 0039-7911, (**IF.1.8**), <https://doi.org/10.1080/00397911.2016.1252046>
6. 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,Sambhaji Mane,, *Macromolecular Symposia*, 2016,361,106–111,ISSN.ISSN:15213900.(**Research Impact Score 1.6**).
<https://doi.org/10.1002/masy.201400236>
7. An efficient, one-pot three components synthesis of [1,2,4] triazoloquinazolinone derivatives using anthranilic acid as green catalyst, Sunil Vibhute , Dattatraya Jamale, Santosh Undare, **Navanath Valekar**, Govind Kolekar, Prashant Anbhule*, *Research on Chemical Intermediates*,2017,43,(2)4561–4574,ISSN1568-5675,(**IF.2.8**),
<https://doi.org/10.1007/s11164-017-2896-5>.

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 Patil, Govind Kolekar & Prashant Anbhule*, *Synthetic Communications*, 2017, 47, (19), 1747-1757, ISSN 0039-7911, **(IF.1.8)**, <https://doi.org/10.1080/00397911.2017.1348526>
9. 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, ND Patil, Gopal Kulkarni, S K Shinde, **N J Valekar**, HC Barshilia, Vijaya Puri*, *Journal of Alloys and Compounds*, 2019, 777, 627-637, ISSN0925-8388, **(IF. 65.8)**, <https://doi.org/10.1016/j.jallcom.2018.11.041>
10. 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 agents, Priyanka T. Patil, Poojali P. Warekar, Kirti T. Patil, Santosh S. Undare, D. K. Jamale, S. S. Vibhute, **N. J. Valekar**, Govind B. Kolekar, Madhukar B. Deshmukh & Prashant. V. Anbhule* *Research on Chemical Intermediates*, 2018, 44, 1119–1130, , ISSN 1568-5675 **(2.8)**. <https://doi.org/10.1007/s11164-017-3155-5>
11. Unexpected formation of 4,5-dihydro-1H-pyrazolo[3,4-*b*]pyridine derivatives as a potent antitubercular agent and its evaluation by green chemistry metrics, D. K. Jamale, S. S. Vibhute, S. S. Undare, **N. J. Valekar**, K. T. Patil, P. P. Warekar, P. T. Patil, G. B. Kolekar & P. V. Anbhule*, *Synthetic Communications*, 2018, VOL. 48, NO. 21, 2750–2760, ISSN 0039-7911, **(IF. 1.8)**, <https://doi.org/10.1080/00397911.2018.1524491>
12. 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 Chemistry, Section B: Herbal Chemistry* 7, 701-714.E-ISSN2278-3229,**(IF.3.156)**, <https://doi.org/10.1016/j.molstruc.2023.137202>
13. Glycerol Mediated Synthesis, Biological Evaluation, and Molecular Docking Study of 4-(1 H -pyrazol-4-yl)-polyhydroquinolines as Potent Antitubercular Agents, Dattatraya K. Jamale, Santosh S. Undare, **Navanath Janardhan Valekar**, Aniket P. Sarkate & Govind Kolekar, P. V. Anbhule*, *Journal of Heterocyclic Chemistry*, 2019, 56, 608, ISSN:1943-5193, **(IF.2.4)** <https://doi.org/10.1002/jhet.3438>

14. An Efficient Protocol for the Synthesis of Pyrido[2,3-d]pyrimidines in Glycerol–Water Medium:Assessment by Green Chemistry Metrics, Dattatraya K Jamale, Vashishtha M Gurame, **Navanath J Valekar**, Shankar P Hangirgekar, Govind B Kolekar, Prashant V Anbhule*, Macromolecular. Symposia, 2019,387, 1800202,. ISSN:1521-3900.(**IF 0.247**). <https://doi.org/10.1002/masy.201800202>

15. A total and convergent synthesis of (7Z,11Z,13E)-7,11,13-Hexadecatrienal, the major sex pheromone component of the citrus leafminer, *Phyllocnistis citrella*, Ramchandra Awalekar, Priyanka Mohire, **Navanath Valekar**, Shams Usmani, Shilpa Salunkhe, Dattatraya Jamale, Shankar Hangirgekar, Govind Kolekar & Prashant Anbhule*, Chemical Data Collection, 2020, 30, 100567, ISSN: 2405-8300, (**IF.0.217**). <https://doi.org/10.1016/j.cdc.2020.100567>

16. Oleaginous microbes for biodiesel production using lignocellulosic biomass as feedstock (**Book Chapter**)Falak Shaheen, Palvi Ravinder, Rahul Jadhav, **Navanath Valekar**, Sangchul Hwang, Ranjit Gurav, Jyoti Jadhav, *Green Approach to Alternative Fuel for a Sustainable Future*, 2023, 271-296,ISBN-978-0-12-824318-3,<https://doi.org/10.1016/B978-0-12-824318-3.00020-5>.

17. Fe₃O₄@Thiosemicarbazide-Cu(II): An efficient magnetically separable catalyst for greener synthesis of 1,2,3-triazoles using click reaction, Rutuja Zond , Archana Yadav , Reshma Yadav, **Navanath Valekar** , Santosh Pore , Dattatraya Chandam , Shankar Hangirgekar, Sandeep Sankpal, *Journal of Organometallic Chemistry*, 2024,1004,122925, ISSN: 0022-328X , (**IF. 2.1**). <https://doi.org/10.1016/j.jorganchem.2023.122925>

18. Benzylpyrazolyl naphthoquinones as potential VEGFR-2, GPCR and PPAR inhibitors: Synthesis, anti-cancer evaluation, molecular docking and DFT studies, Pradnya Patil, Pruthanka Patil, Padma Dandge, Prakash Bansode, Bajarang Kumbhar, Wilson Chandane , Sanket Rathod, Prafulla Choudhari , Suraj Khot, **Navanath Valekar** , Dattaprasad Pore , Gajanan Rashinkar, *Journal of Molecular Structure*, 2024, 1301, 137202 ISSN : 0022-2860 (**IF. 2.1**) <https://doi.org/10.1016/j.molstruc.2023.137202>

19. Synthesis, Characterisation and Determination of Lethal Dose (LD50) of 1-Butyl-3-Methylimidazolium Hydroxide against *Mus musculus*, C. S. Bhasme, G. S. Rashinkar, **N. J. Valekar**, P. S. Dhotare, K. D. Sonawane and N. A. Kamble, Solovyov Studies ISPU, 2024, | ISSN: 2076-9210, VOLUME 72, ISSUE 1, (**IF4.7**) <https://solovyov-studiesispu.com>

20. The Application and Challenges of Augmented Reality (AR) and Virtual Reality (VR) Technologies in the Education Sector Patil V. S. 1 , Pol U.R. 2 , Bhosale J. P. 3 , Valekar N. J.*, NAVJYOT,2024, 112-115 , Vol. XIII, Issue –II, ISSN 2277-8063, <https://navjyot.net/wp-content/uploads/2024/07/26>.

21. Synthesis and antimicrobial evaluation of 6-amino-4-(4-phenyl)-3-methyl-4,7-dihydro-1H-pyrazolo[3,4-b] pyridine-5-carbonitriles using ZnO nanoparticles in water, **Navanath J. Valekar** , Santosh S. Undare, Dattatraya K. Jamalec , Maruti J. Dhanavade ,Shankar P. Hangirgekar , Govind. B. Kolekar a and Prashant V. Anbhule * Under Review, Bioorganic & Medicinal Chemistry Letters, ISSN 0960-894X, (IF.2.7).
22. THE ROLE OF NANOPARTICLES IN CHEMISTRY
Dr. Navanath J. Valekar, Dr. A. D. Gophane, Dr. J. P. Bhosale, Year 2025, Pages 1-78, ISBN No. 978-81-992962-2-0, VYD Publisher
23. AQUACULTURE 2.0 Pioneering Sustainable Solutions
Dr. Madhav Bhilave, **Dr. Navanath Valekar**, Year 2025, Pages 1-86, ISBN: 978-81-992962-0-6, VYD Publisher
24. The Honeycomb: Nature's Perfect Architecture Dr. A. D. Gophane, **Dr. N. J. Valekar**, Dr. A. S. Lokhande , Dr. J. P. Bhosale, Year 2025, Pages 1-111, ISBN: 978-93-7143-385-3,
<https://doi.org/10.5281/zenodo.17919642>

❖ Co-curricular and extracurricular activities: -

1. To deliver as the **Guest Lecture** on “Today’s Young Generation and Social Media” Conducted by KIT College, Kolhapur for NSS students in Kasba Valve (Radhanagri Taluka) dated on 19th Jan. 2026.
2. Worked as **External Examiner** in Shivaji University, Kolhapur.
3. Worked as **Committee member** for "Free Education Scheme for Marathi Speaking Students in Border Dispute areas" for 2024-2025 academic year in Shivaji University, Kolhapur
4. Worked as Sports **Committee member** in Shiv-Spandan Krida Mahotsav-2023-24, Shivaji University, Kolhapur
5. Worked as **Protest Committee member** in Shiv-Spandan Krida Mahotsav-2023-24, Shivaji University, Kolhapur.
6. Worked as **External senior supervisor** in Shivaji University, Kolhapur.
7. Worked as **Committee member** in Science Week under the theme "AZADI KA AMRIT MAHAOTSAV" organized by SAIF, DST Center, Shivaji University, Kolhapur as a part of STUTI Programme.
8. Worked as **Committee member** for "Free Education Scheme for Marathi Speaking Students in Border Dispute areas" in Shivaji University, Kolhapur.
9. Worked as **Co-ordinator** of University Level Employability Assessment Week organized during 4-11 December 2020 by Central Placement Cell, SUK
10. Worked as Examination paper **Evaluator** in Ranichannama University, Belgao.
11. Worked as Examination paper **Evaluator** in Shivaji University, Kolhapur.

12. Worked as **External Examiner** in PDVP Mahavidyalaya, Tasgaon from 2nd to 4th July 2022.
13. Worked as **External Examiner** in Dr. Ghali College, Gadhinglaj from 7th to 9th July 2022. -Exam evaluation in Rani Channamma University, Belgavi on 26th Nov. 2022-27th Nov.2022.
14. Worked as **Senior Internal Supervisor** for M. Sc. Chemistry Examination March/April 2022, at Dept of Chemistry, SUK.
15. To Deliver as the **Guest lecture** on preparation of examination on 3rd June 2023 in Padmashri Dr. G. G. Jadhav Mahavidyalaya, Gaganbawada
16. To Deliver as the **Guest lecture** on preparation of examination on 3rd June 2023 in Padmashri Dr. G. G. Jadhav Mahavidyalaya, Gaganbawada
17. Acted as **External Examiner** for B.Sc. M. Sc. Nanoscience and Technology (Integrated) at the Practical Examination.
18. Acted as **Evaluator of Chemjoy** Seminar Power point presentation and Chem Chroma Poster Display in Chem-O-Joy-2019 in Willingdon College, Sangli.
19. Actively participated in Employability Enhancement Program on 6th October 2018 in Shivaji University, Kolhapur.
20. Participated in One Day Workshop on "UGC-SWAYAM AND MOOCS" organized by Shivaji University, Kolhapur.
21. Actively participated in two day Workshop on Research Writings, Ethics, Plagiarism and Publishability" organized by IQAC Cell, Shivaji University, Kolhapur.
22. Participated in a Workshop on 'A Brain Storming Session for Application of Technology for Sustainable Development in the State of Maharashtra' organized by Maharashtra Academy Of Sciences and Shivaji University, Kolhapur during 26th and 27th November 2012.
23. Actively participated in the One Day Workshop on "Intellectual Property Rights (IPR), 2018, Organized by IPR Cell, Shivaji University, Kolhapur.
24. Participated in CMI-2018 held on 30th June 2018
25. Participated in the **Seventh Personality** (General Knowledge) Test passed with "A" grade on 27th Sept. 2001 at all India Level.

Thanking You,

Yours Sincerely,

(Dr. N. J. Valekar)