

Nandkumar Ajinath Borade, M.Sc.,Ph.D

Present position

Associate Professor, Department of Chemistry, Fergusson College (Autonomous), Pune.

Contact Details



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Work Experience

- **Teaching: 18 years**
- **Research: 05 years**

Personal Profile

I joined as a lecturer in 2004, on very second day of completion of M.Sc. With hard work and dedication during these 18 year's long journey of teaching, many young lives been trained for their survival. I have worked in the colleges with varied background of students such as Parner College, Shrivardhan College and Kirti College. I have worked in NSS and presently working as NCC officer with the intention to create leadership in youths.

Course(s) Taught (Only Titles)

1. Organic Chemistry
2. Inorganic Chemistry
3. Drugs and Dyes
4. Polymer Chemistry
5. NCC Studies

Field of Specialization/Areas of Interests

- Organic chemistry
- Ontology

Education

- **Ph.D. – (Chemistry):** from-2017 to 2021
Title of the Thesis: “Design and Synthesis of novel thiazoles containing triazoles and imidazole derivatives and study of their antimicrobial properties.”
Year of Award-2021
Kirti M. Doongursee College, Mumbai, University of Mumbai
- **Master of Science - (Organic Chemistry):** 2004
New Arts, Commerce and Science College, Ahemadnagar.
- **Bachelor of Science- (Chemistry):** 2001
Shri Shivaji College, Barshi, Dist.:- Solapur.

Member of College Committees/ Professional Bodies and Others

College Level	Professional Bodies	Others
<ul style="list-style-type: none"> • Member of Code and ethics committee 	Member of Association of Chemistry Teachers.	Member on BOS in chemistry at Kirti College, Mumbai. Member on BOS in NCC Studies at Kirti College, Mumbai, Khalsa College, Mumbai, SIES College, Mumbai, Patkar College, Mumbai.

Employment History

- 1) **Organization** : New Arts, Commerce & Science College, Parner, Dist.-Ahmednagar.
Role : Lecturer
Duration : 01/12/2004 to 03/10/05

Responsibilities	<ul style="list-style-type: none"> • Teaching Organic Chemistry to T.Y. B.Sc. Students • Organizing Industrial Visits and competitive examinations.
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- 2) **Organization** : GES, ASC College, Shrivardhan, Dist.: - Raigad.
Role : Lecturer
Duration : 04/10/2005 to 16/10/2008

Responsibilities	<ul style="list-style-type: none"> • Teaching Chemistry to B.Sc. Students • N.S.S. Program Officer, Examination Chairman, Discipline committee chairman, Sports In charge.
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- 3) **Organization** : DES, Kirti M. Doongursee College, Mumbai.
Role : Associate Professor
Duration : 17/10/2008 to 30/11/2020.

Responsibilities	<ul style="list-style-type: none"> • Teaching Chemistry to all B.Sc. Classes, SY BSc Practical In charge, Organizer 15 days workshop on “Basic Concepts in Chemistry”, ACT Concept Test Organizer, Organizing guest lectures, organizing Industrial /Institutional visits. • N.S.S. Program Officer, N.C.C. Officer, CDC Member, Administrative In charge for conducting teacher’s promotion program, Result committee member, Students council Election Committee member, Annual Prize distribution core committee member, Discipline Committee member.
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- 4) **Organization** : DES, Fergusson College Pune.
Role : Associate Professor
Duration : 01/12/2020 Till date.

Research Projects

Title of the Project	Name of Funding Agency	Amount (Rs)	Duration (Year) (From To)	Type (Minor/Major)	Outcome
Organic transformations in micellar media.	BCUD, University of Mumbai	30,000	2011-12	Minor	Developed a greener media to carry out organic synthesis
Greener methods for the synthesis of industrially useful Intermediates	UGC	2,20,000	2015-17	Minor	Developed a greener method to synthesize industrially useful intermediates

Research Publications in National and International Journals

1. Dinanath D. Patil³, Gurumeet. C. Wadhawa⁴, Vitthal S Shivankar ⁴ Pallavi Tiwari Roy, **Nandkumar A. Borade**, Nitin A. Mirgane*¹. A Green, Sustainable Diels-Alder Protocol for the Synthesis of Tetrahydro1H-isoindole-1,3(2H)-dione Catalyzed by Chiral Ionic Liquid. International Journal of Advanced Science & Technology Vol. 29, No.(2020), pp. 5588-5592.
2. Gurumeet C. Wadhawa¹, Dinanath D. Patil², Vitthal S. Shivankar¹, **Nandkumar A. Borade**³, Sandip B. Kotwal⁴, Yashwant Gaikwad¹, Maryappa C. Sonawale⁵, Nitin A. Mirgane*⁶. Dye Adsorbent Capacity Of Waste Tunic From Onion (Allium Cepa L.). International Journal of Advanced Science and Technology Vol. 29, No. 12s, (2020), pp. 860-869.
3. **Nandkumar A. Borade**¹, Dadasaheb B. Shinde². Optostructural, Morphological and Compositional Analysis of Nanocrystalline ZnO, TiO₂ and Composite TiO₂-ZnO Thin Films. JETIR November 2018, Volume 5, Issue 11, www.jetir.org (ISSN-2349-5162) JETIR1811B67.
4. Seema R Sapale & **N. A. Borade**. Nonlinear Optical Properties (NLO) Study of Some Novel Fluorescent 2-Chloroimidazo [1,2-A] Pyridine Derivatives. European Journal of Molecular & Clinical Medicine ISSN 2515-8260 Volume 7, Issue 11, 2020.
5. Abhijit P. Chavan, Rujuta R. Deshpande, **Nandkumar A. Borade**, Abhijit Shinde, Pravin C. Mhaske, Dhiman Sarkar & Vivek D. Bobade. Synthesis of new 1,3,4-oxadiazole and benzothiazolythioether derivatives of 4-arylmethylidene-3-substitutedisoxazol-5(4H)-one as potential antimycobacterial agents. Medicinal Chemistry Research-ISSN 1054-2523 Volume 28 Number 11 Med Chem Res (2019) 28:1873-1884 DOI 10.1007/s00044-019-02420-7.
6. Nandkumar Ajinath Borade, Seema Rajendra Saple, Nitin B. Gaikwad & Siddheshwar D. Jadhav. Hybrids of Fluconazole: Synthesis and Antimicrobial Activity. Natural volatiles and Essential Oils. Nat. volatiles and essential oils, 2021; 8(5): 8573-8584.
7. **Nandkumar A. Borade**, Siddheshwar D. Jadhav, Sanjay Mhaske. Fastness properties, Electrophilicity Index, and Thermo gravimetric Analysis study of Novel class of styryl disperse dyes based 2-chloroimidazo[1,2-a] pyridine-3- carbaldehyde. YMER || ISSN : 0044-0477 VOLUME 21 : ISSUE 10 (Oct) - 2022 <http://ymerdigital.com.17>.
8. Firke, N.P.*, **Borade, N.A.** An explicit application of Google form in chemistry viva-voce examination. YMER, 2022; 21(10); 308-327.

Participation in Conferences/Seminars/Symposia/Workshop:

1. Presented paper in UGC Sponsored conference on Green Chemistry titled “Organic Transformations in Micellar Media’ organized by M.D. College, Parel on 3rd December, 2013 and paper is published in proceeding ISBN-978-81-925005-2-2.
2. Presented a paper titled ‘’ Mixture of Dodecyl Benzene Sulfonic Acid and Its Sodium Salt as Efficient Greener Recyclable Heterogeneous Catalysts for Aza Cope Rearrangement of N- Allylanilines in Aqueous Medium’ in international conference on Innovations in Chemical Research and Applied Chemical Sciences on 12th -13th Jan. 2015 organized by CHM College, Ulhas-Nagar.
3. Present a paper titled “Anionic Surfactants are found excellent Media for Efficient and Facile one Pot synthesis of 2, 4, 5-Triaryl-1-H-Imidazoles from Benzyl and Aromatic Aldehydes” in UGC Sponsored National Workshop on Green Chemistry on 21st Jan. 2015 organized by Government of Maharashtra’s Elphinstone College, Mumbai.