



Dr. Ashokrao Bhagawan Patil

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Assistant Professor

Department of Chemistry

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K.T.S.P Mandal's

K.M.C. College, Khopoli, Raigad.

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NAAC Reaccredited with 'B' grade

Academic Qualifications

Year of passing	Degree	University
Dec.2011	Ph. D.	Savitribai Phule Pune University, Pune (INDIA)
1996	B. Ed.	Shivaji Univesity, Kolhapur
1995	M. Sc. (Inorganic Chemistry)	Shivaji Univesity, Kolhapur
1993	B. Sc. (Chemistry)	Shivaji Univesity, Kolhapur

Research Area:

- Photocatalysis
- Materials for energy storage
- Green Chemistry

Research

- **Total research Publications: 10**
- PUBLICATIONS IN INTERNATIONAL JOURNALS**
1. Efficient photocatalytic hydrogen production over Ce/ZnO from aqueous methanol solution, , Ashokrao B. Patil , Balaso D. Jadhav, Poonam V. Bhoir, **Materials for Renewable and Sustainable Energy**, (2021) 10-14
 2. Optical band gap modification of Ce/ZnO for visible light photocatalytic H₂ production from aqueous methanol solution, Ashokrao B. Patil , Balaso D. Jadhav, Poonam V. Bhoir, **Optical Materials** 121 (2021) 111503
 3. Optical and morphological characterization of Bi³⁺ doped zinc oxide and its solar photocatalytic application, Satish K. Pardeshi, Balaso D. Jadhav, Ashokrao B. Patil, **Journal of**

Awards and Recognitions:

- Summer Research Fellowship 2017 (Teacher, After Ph.D.) by Indian Academy of Sciences Bengaluru, Indian National Science Academy New Delhi, The National Academy of Sciences Allhabad.
- “Prof. G. Gopala Rao Centenary Commemorative Award” for best paper presentation in 28th

Optoelectronics and Advanced Materials, 23 (1-2), 63-71,
2021

4. Solar photocatalytic degradation of BisphenolA from industrial waste water over Cu-doped Zinc oxide, Ashokrao B. Patil and Satish K. Pardeshi, International Journal of Research and Analytical Reviews, 6 (1), 214-224, **2019**
5. Solar Photocatalytic Degradation of 2,4-Dichloroindophenol by La-ZnO Nanocrystallites
Rohidas M. Jagtap, Sachin R. Bhor, **Ashokrao B. Patil**, and Satish K. Pardeshi*, **Journal of Nanoengineering and Nanomanufacturing**, 5 (3), 186-191, **2015**
6. Enhancement of oxygen vacancies and solar photocatalytic activity of zinc oxide by incorporation of nonmetal impurities, **A.B. Patil**, K.R. Patil, S.K. Pardeshi, **Journal of Solid State Chemistry** **184 (2011) 3273–3279**
7. Ecofriendly Synthesis and Solar Photocatalytic Activity of S-doped ZnO, **A.B. Patil**, K.R. Patil, S.K. Pardeshi, **Journal of Hazardous Materials** **183 (2010) 315-323**.
8. Effect of morphology and crystallite size on solar photocatalytic activity of zinc oxide synthesized by solution free mechanochemical method, **A.B. Patil** and S.K. Pardeshi, **Journal of Molecular Catalysis A: Chemical** **308 (2009) 32–40**.
9. Solar photocatalytic degradation of resorcinol a model endocrine disrupter in water using zinc oxide **A.B. Patil** and S.K. Pardeshi, **Journal of Hazardous Materials** **163 (2009) 403-409**.
10. A simple route for photocatalytic degradation of phenol in aqueous zinc oxide suspension using solar energy, **A.B. Patil** and S.K. Pardeshi, **Solar energy**, **82 (2008) 700-705**.

INVITED TALKS

1. “Systematic Literature Review and Research Paper Writing Skills”, Three days Training Program on Research

National Conference of Indian Council of Chemists held at Hemchandrachrya North Gujarat University, Patan from 7th – 10th November, 2009.

- Best Paper Award for research paper presentation in national seminar on Recent Advances in Material Sciences (RAMS-2014), held at Department of Chemistry, Mahatma Phule Arts, Science and Commerce College, Panvel, Navi Mumbai, Raigad-410206 (Maharashtra-India), 18th January 2014, ISBN-978-81-924995-5-0, page-25.
- Received “Prof. P. B. Punjabi Award-2016” for the best ORAL presentation in Analytical and Environmental Chemistry Section in the 35th National Conference of Indian Council of Chemists, held at H. V. Desai College and College of Engineering, Pune, during 22nd-24th December, 2016.
- Fellow of Indian Council of

Methodology, Organized by Internal Quality Assurance Cell (IQAC), Pillai HOC College of Arts, Science & Commerce, Rasayani, during 19 – 21 May, 2021.

• **Total Citations:**

Citations	839
h-index	5
i10-index	5

<http://scholar.google.co.in/citations?hl=en&user=&user=8Cq5BIAAAAAJ>

Chemists, India (LF-1489)

RECOGNITIONS

- 1) A teacher to guide students of Ph.D. degree in Chemistry (University of Mumbai) with effect from 04/02/2020
- 2) A teacher to guide students of M. Sc (By Papers). degree in the subject of Inorganic Chemistry (University of Mumbai) with effect from 04/09/2018
- 3) A teacher to guide students of M. Sc (By Research). degree in the subject of Inorganic Chemistry (University of Mumbai) with effect from 04/09/2018

Teaching experience:

- UG- 8 Years
- PG – 6 Years

Academic Distinctions:

- Chairman, College Research Cell,
- Member of IQAC Committee

