



## FACULTY PROFILE



**NAME** : Dr Bipin S. Shinde  
**QUALIFICATION** : M.Sc, NET, Ph.D  
**Email ID** : [bshinde@kbpcollegevashi.edu.in](mailto:bshinde@kbpcollegevashi.edu.in)  
**DEPARTMENT** : Chemistry  
**DESIGNATION** : Assistant Professor  
**EXPERIENCE (Yrs.)** : 12  
**SPECIALIZATION** : Physical Chemistry

### **PUBLICATIONS:**

**Granted an Australian Innovation Patent dated on 3<sup>rd</sup> November 2021.**

Application no: 2021105862 for the invention entitled "A Method for Synthesis of tetra-hydro-benzo[A]- xanthen-11-Ones with biological screening"



Australian Government  
IP Australia

## CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2021105862

The Commissioner of Patents has granted the above patent on 3 November 2021, and certifies that the below particulars have been registered in the Register of Patents.

**Name and address of patentee(s):**

Prasad Uddhav Mane of Department of Chemistry, Karmaveer Bhaurao Patil College, (Autonomous College)  
Vashi Navi Mumbai Maharashtra 400703 India

**Title of invention:**

A METHOD FOR SYNTHESIS OF TETRA-HYDRO-BENZO[A]- XANTHEN-11-ONES WITH BIOLOGICAL SCREENING



## FACULTY PROFILE

### Research Publications in Journals-

Research Outputs	
Papers in International Journals	
1.	Novel catalytic application of Ni@ ZnO nanoparticles and ZnO nanoflakes in aqueous solution of NaPTS hydrotrope at room temperature via a green synthesis of 3, 4 ... <b>B Shinde</b> , S Kamble, P Gaikwad, V Ghanwat, S Tanpure, P Pagare, ... Research on Chemical Intermediates 44 (5), 3097-3113
2.	pH-Transformed ZnO-NPs/NaPTS: The First Room-Temperature Brisk Synthesis of Flavanones in Aqueous Medium <b>B Shinde</b> , SB Kamble, DM Pore, P Gosavi, A Gaikwad, HS Jadhav, ... ChemistrySelect 3 (46), 13197-13206
3.	The Eggshell Waste Transformed Green and Efficient Synthesis of K-Ca(OH) <sub>2</sub> Catalyst for Room Temperature Synthesis of Chalcones S Tanpure, V Ghanwat, <b>B Shinde</b> , K Tanpure, S Lawande Polycyclic Aromatic Compounds 42 (4), 1322-1340
4.	Sodium acetate/MWI: a green protocol for the synthesis of tetrahydrobenzo [α] xanthen-11-ones with biological screening P Mane, <b>B Shinde</b> , P Mundada, V Gawade, Research on Chemical Intermediates 46 (1), 231-241
5.	Enhanced catalytic activity of bio-fabricated ZnO NPs prepared by ultrasound-assisted route for the synthesis of tetraketone and benzylidenemalonitrile in hydrotropic aqueous ... SR Attar, <b>B Shinde</b> , SB Kamble Research on Chemical Intermediates 46 (10), 4723-4748
6	Biogenic synthesis of ZnO nanoparticles from Parthenium hysterophorus extract and its catalytic activity for building bioactive polyhydroquinolines P Mane, <b>B Shinde</b> , P Mundada, Research on Chemical Intermediates 47 (5), 1743-1758
7	The Calotropis procera Transformed Green NiO and Fe-NiO Nanoparticles for Diaryl Pyrimidinones Synthesis in Hydrotropic Medium at Room Temperature <b>B Shinde</b> , SB Kamble, HS Jadhav, ,



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	Chemistry Select 3 (46), 13140-13153
8	'In water' exploration of Alpinia zerumbet-fabricated CuO NPs in the presence of NaPTS at room temperature: green synthesis of 1, 8-dioxooctahydroxanthene derivatives <b>B Shinde</b> , S Kamble, H Jadhav, P Mane, K Khude, H Kim, ... Research on Chemical Intermediates 47 (3), 1221-1237
9	A comprehensive study on structural, magnetic and dielectric properties of Ni <sub>0.3</sub> Cu <sub>0.3</sub> Zn <sub>0.4</sub> Fe <sub>1.8</sub> Cr <sub>0.2</sub> O <sub>4</sub> nanoparticles synthesized by sol-gel auto combustion route SM Suryawanshi, DS Badwaik, <b>BS Shinde</b> , KD Gaikwad, M Shkir, ... Journal of Molecular Structure 1272, 134173
10	Pharma Research Library International Journal of Chemistry and Pharmaceutical Sciences <b>BS Shinde</b> , SV Thite, BA Kore, VT Aparadh
Papers presented in Conferences and Workshops:	
1.	Poster presented in International Conference on "Recent Advances in Renewable Energy and Hygiene Devices 5-6 March 2018 at Yashavantrao Chavan Institute of Science, Satara.
2.	Poster presented in International Conference on Interdisciplinary approach in chemical research 13-14 Dec. 2017 at S. M. Joshi College, Hadpsar, Pune.
3.	Poster presented in National Conference on Recent trends in nanomaterial 28 Sept. 2017 at Yashavantrao Chavan Institute of Science, Satara.
4.	Poster presented in interdisciplinary Approach in Chemical Research (IACR 2017) Sep Jant 27,28,2017 at Yashavantrao Chavan Institute of Science, Satara.
5.	Participated in one day international conference "Energy Efficient Campus and Exchange of Research on Energy and Environment -2013" conducted 30th May 2013 at Yashavantrao Chavan Institute of Science, Satara.



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6.	Participated in a One Day National E-Conference On "Recent Trends in Chemistry" jointly organized by Department of Chemistry & Internal Quality Assurance Cell, Arts Science & Commerce College, Ramanandnagar (Burli),
7.	International E-Conference on "Strategies & Challenges in Higher Education during COVID-19 Lockdown Period in India with reference to the World" organized by Government Vidarbha Institute of Science & Humanities, Amravati, India on 15th - 17th May, 2020.
Research Project Completed	
1	2 Minor Research Project completed
2	One MRP is ongoing
Patents/ Copyrights/IPR Published/Granted:	
1	A method for synthesis of tetra-hydro-benzo[ $\alpha$ ]- xanthen-11-ones with biological ... AU AU2021105862A4 <b>Bipin Shinde</b> Mane, Prasad Uddhav Mr. Priority 2021-08-18 • Filed 2021-08-18 • Granted 2021-11-18 • Published 2021-11-18
2	
Number of students (PG/Ph.D.) guided So far:	
PG	50
Ph.D.	-



## **FACULTY PROFILE**

Papers Published in conference proceedings- 02

- ② Green Approach for one pot synthesis of flavanone using methane sulfonic acid catalyst. R. B. Gavade, P. U. Mane, **B.S.Shinde**, S.D. Jadhav, A.S. Burungale\*, Bionano Frontier, Vol. 8 (3): [31-34 ISSN 0974-0678 ONLINE 2320-9593), April 2015.
- ② Insilico screening of 3-styrylchromones lead compounds for human mitochondrial DHODH inhibition. S.G. Pawar, P.U. Mane, B. **S. Shinde**. R.B. Gaikar, B, K Karale, A.S. Burungale\*, Bionano Frontier, vol. 8 (3): 66 - 73 ISSN 0974-0678 ONLINE 2320-9593) April 2015.



## **FACULTY PROFILE**

### PAPERS PRESENTED:

Research Papers presented in international conferences- 04

- ☒ Presented a paper in INTERNATIONAL CONFERENCE “International Conference on Chemistry, Environment and Energy” conducted from 16th and 18th February 2019 at Yashavantrao Chavan Institute of Science, Satara (Autonomous).
- ☒ Presented a paper in INTERNATIONAL CONFERENCE “Recent Advances in Renewable Energy and Hygiene Devices” conducted from 5th and 6th March 2018 at Yashavantrao Chavan Institute of Science, Satara (Autonomous).
- ☒ Presented a paper in INTERNATIONAL CONFERENCE “Advances in Chemical Sciences” conducted from 18th and 19th December 2018 at S. M. Joshi College, Hadapsar, Pune.
- ☒ Presented a paper in INTERNATIONAL CONFERENCE “Contemporary Research in Chemical and Life Sciences” conducted from 22nd and 23th April 2015 at Sadguru Gadage Maharaj College, Karad.

Research Papers presented in national conferences- 02

- ☒ Presented a paper in NATIONAL CONFERENCE “Emerging Trends and Techniques in Chemistry” conducted from 10th to 12th October 2013 at Yashvantrao Chavan Institute of Science, Satara.
- ☒ Presented a poster in NATIONAL SEMINAR “Specialized Aspects of Organic Chemistry” conducted from 18th to 19th December 2012 at Karmaveer Bhaurao Patil College, Vashi, Navi Mumbai.

### ACTIVITIES ORGANIZED:

FDP/TRAINING COURSES COMPLETED: 03

- ☒ Participated in TWELVE DAY WORKSHOP on “Faculty Development Programme in Entrepreneurship” held from 28th January 2019 to 7th February 2019 at Yashavantrao Chavan Institute of Science, Satara (Autonomous), sponsored by NSTEDB, Dept. of Science and technology, Govt. of India.
- ☒ Participated in One Month Faculty Induction Program (FIP) on “Faculty



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- in Universities/Colleges/Institutes of Higher Education” held from 4th June 2020 to 1st July 2020 at Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of Ministry Of Human Resource Development Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching.
- ☐ Participated in One Month Faculty Induction Program (FIP) on “Faculty in Universities/Colleges/Institutes of Higher Education” held from 19th August 2021 to 19th September 2021 at Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of Ministry Of Human Resource Development Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching.



## **FACULTY PROFILE**

### **RESEARCH PROJECTS:**

**“De Novo Phytogetic Synthesis of Nano- materials for green Heterocycle synthesis”.**

Submitted to RPEC Committee, Karmaveer Bhaurao Patil College, Vashi, Navi Mumbai (Autonomous), Under: In-house project scheme of Rashtriya Uchchar Shiksha Abhiyan (RUSA)

Principal Investigator : **Dr. Bipin S Shinde**  
Funding Agency : RUSA  
Amount : **Rs. 2, 00, 000/-**  
Status : Ongoing (2021-2023)