



## Profile of the Faculty

### 1. General Information:

Name of the Faculty	:	Dr. Shaheen Abdul Rasheed Shaikh
Name of the Department	:	Chemistry
Educational Qualifications	:	M.Sc., Ph.D. SET, GATE
Present Position	:	Assistant Professor of Chemistry
Address for Correspondence	:	Department of Chemistry, Changu Kana Thakur Arts, Commerce and Science College, New Panvel (Autonomous), Plot-No.01, Sector-11, Khanda Colony, New Panvel (W), Dist. Raigad, Maharashtra, India-410206
E-mail	:	<a href="mailto:shaikhshaheen244@gmail.com">shaikhshaheen244@gmail.com</a>
Contact Number	:	8446298166
Specialization	:	Organic Chemistry
Total teaching experience	:	9 Years
Courses taught	:	Inorganic chemistry and Organic Chemistry
Research experience	:	9
Number of students registered for Ph.D. degree	:	---
Number of students awarded Ph.D. degree	:	---
Number of students registered for P.G degree by research	:	---
Number of students awarded P.G degree by research	:	---

## 2. Publication of Research Papers:

Peer reviewed journals	:	08
Non-peer reviewed journals	:	01
Conference proceedings	:	Nil

### List of Publication of Research Papers:

- CuCeO<sub>2</sub> NPs: An efficient catalyst for the synthesis of 1, 4-dihydropyridine derivatives, **Shaikh, S.A.**, Kamble, V.S., Patil, P.A., & Aghav, B.D. (2025), *Journal of Porous Materials*, 32(3), 1207-1221.
- Bimetallic CoCeO<sub>2</sub> oxide nanoparticles: An efficient and reusable heterogeneous catalyst for synthesis of 2-amino-3-cyano-4H-pyran derivatives, **S.A. Shaikh**, V.S. Kamble, R.H. Gupta, A.G. Awale, S.T. Salunkhe, B.D. Aghav\*, *Journal of Heterocyclic Chemistry*, Vol. 60, Issue 06 (2023) p. 1004-1013.
- A green and one-pot synthesis of 6-amino-1,4-dihydropyran[2,3-c]-pyrazole-5-carbonitrile derivatives using CoCeO<sub>2</sub> nanoparticles as an efficient, reusable and heterogeneous catalyst, **Shaheen A. Shaikh**, Vishal S. Kamble, Rohan K. Zemase, Sanjay K. Patil, Balasaheb D. Aghav\*, *Research on Chemical Intermediate*, (2023) 49(12), 5255-5272.
- Efficient Synthesis of Xanthenediones Using CuCeO<sub>2</sub> Nanoparticle Catalyst in Aqueous Medium, **S.A. Shaikh**, V.S. Kamble, S.T. Salunkhe, S.K. Patil, and B.D. Aghav\*, *Organic Preparations and Procedures International*, Vol. 55, Issue 05 (2023) p. 393-403.
- CoCeO<sub>2</sub> Nanoparticles: Green Synthesis, Characterization, Photocatalytic Degradation of Organic Pollutants, Catalytic Reduction of 4-Nitrophenol, and Antimicrobial Activity, Patil, P.A., **Shaikh, S.A.**, & Aghav, B.D. (2026), *ChemistrySelect*, 11(1), e06086.
- Improved toxic NO<sub>2</sub> gas sensing aptness of Cu-doped ZnO thin-film sensors derived by simple co-precipitation route, V.S. Kamle, R.K. Zemase, R.H. Gupta, B.D. Aghav, **S.A. Shaikh**, J.M. Pawara, S.K. Patil, S.T Salunkhe, *Optical Materials*, (2022) 112706.
- X-Ray Diffraction Studies for the Determination of Crystallite Size of ZnO Nanoparticles: Scherrer Formula and Williamson-Hall Plot Approach, B.D. Aghav, V.S. Kamle, **S.A. Shaikh**, J.M. Pawara, S.T Salunkhe, *Indian Journal of Natural Sciences*, (2022) Vol-3 Issue- 73.
- A Green and Efficient One Pot Synthesis of Polyhydroquinoline Derivatives Catalyzed by Ammonium Chloride Under Aqueous Media, B.D. Aghav, **S.A. Shaikh**, N. Roy, K.N. Vidhate, *Vidyabharti International Interdisciplinary Research Journal*, (2021) 2319-4979.
- Green synthesis of CuCeO<sub>2</sub> nanoparticles using Averrhoa carambola fruit extract for its photocatalytic application and antimicrobial activity, Patil, P.A., **Shaikh, S.A.**, & Aghav, B.D. (2026), *Current*

*organocatalysis* (Accepted).

### 3. Minor Research Project Completed: As Co-Investigator

Title of the project	Date of sanction	Duration	Grant received	Funding agency
Preparation, characterization and use of metal doped ceria and ceria nanoparticles in the synthesis of heterocyclic compounds	Date of Sanction: 10-10-2020 Date of Submission: March 2022	01 year	Rs. 1,00,000/-	RUSA

### 4. Membership:

- Life Member, Interdisciplinary symposium of material chemistry (ISMC)

### 5. Participation in conferences, symposia, seminars and workshops:

Level	Presented paper	Only attended
International	01	01
National	02	02
State	01	01

### 6. Conferences, symposia, seminars and workshops organized as convener/co-convener:

Level	Convener	Co-convener
National	----	----
College	----	01

### 7. Experience on the various committees at the college

- Member, Avishkar Research Convention Committee (2018-19 to till date)
- Member, RUSA Cell Committee (2022-23 to till date)
- Member, Board of Studies Committee (2019-20 to till date)

### 8. Experience on the NAAC/ IQAC of the college

- Member, Criterion VI-Governance Leadership Management (2022-23 to till date)