

Faculty Profile



- 1. Name in Full** : **Dr. Dewal Sureshrao Deshmukh**
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Email: dewalsdeshmukh@rediffmail.com
- 3. Date of Birth** : 23rd May 1990
- 4. Designation** : Assistant Professor, Department of Chemistry, Shri Shivaji College of Arts, Commerce & Science, Akola
- 5. Educational Qualification** :
- | Degree | Year | University |
|--------|------|---|
| B.Sc. | 2011 | Sant Gadge Baba Amravati University, Amravati |
| M.Sc. | 2013 | Savitribai Phule Pune University, Pune |
| B.Ed. | 2014 | Sant Gadge Baba Amravati University, Amravati |
| GATE | 2014 | |
| SET | 2015 | |
| Ph.D. | 2020 | Institute of Chemical Technology, Mumbai |
- 6. Teaching Experience** : Total 03 years 4 months
- 7. Research Experience** : 06 years
- 8. Guidance rendered to research scholars** : 03 M.Sc. student for master's degree project
- 9. Professional membership and other expertise** : 1. Life Member of Amravati University Chemistry Teachers Association Life Member,
2. Indian Science Congress Association, Kolkata (L40605)
- 10. Project Completed** : -

11. Books written

: Book chapter entitled 'Insights into Sustainable C–H Bond Activation' in book 'Catalysis for Clean Energy and Environmental Sustainability - Biomass Conversion and Green Chemistry - Volume 1' (Springer Publications)

12. Research Publications :

1. N-Tosylhydrazone as an Oxidizing Directing Group for the Redox-Neutral Access to Isoquinolines via Cp*Co(III)-Catalyzed C–H/N–N Activation; D. S. Deshmukh, N. Gangwar and B. M. Bhanage; **Journal Of The Indian Chemical Society** 2021, 98, 100001 (Impact factor: 0.284)
2. Rapid and Atom Economic Synthesis of Isoquinolines and Isoquinolinones by C-H/N-N Activation using Homogeneous Recyclable Ru(II) Catalyst in PEG Media; D. S. Deshmukh, N. Gangwar and B. M. Bhanage; **Eur. J. Org. Chem.** 2019, 18, 2919-2927. (Impact factor: 3.029)
3. Ruthenium-Catalyzed Annulation of N-Cbz Hydrazones via C–H/N–N Bond Activation for the Rapid Synthesis of Isoquinolines; D. S. Deshmukh and B. M. Bhanage; **Synthesis** 2019, 51, 2506-2514. (Impact factor: 2.867)
4. Cp*Co(III)-catalyzed annulation of azines by C–H/N–N bond activation for the synthesis of isoquinolines; D. S. Deshmukh, P. A. Yadav and B. M. Bhanage; **Org. Biomol. Chem.** 2019,17, 3489-3496. (Impact factor: 3.490)
5. Cp*Co(III) catalyzed annulation of N-Cbz hydrazones for the redox-neutral synthesis of isoquinolines via C-H/N-N activation; D. D.

Subhedar, D. S. Deshmukh and B. M. Bhanage;
Synthetic Communications 2019, Article in
press. (Impact factor: 1.439)

6. N-Tosylhydrazone directed annulation via C-H/N-N bond activation in Ru(ii)/PEG-400 as homogeneous recyclable catalytic system: a green synthesis of isoquinolines; D. S. Deshmukh and B. M. Bhanage; **Org. Biomol. Chem.** 2018, 16, 4864-4873. (Impact factor: 3.490)

7. Molecular Iodine Catalysed Benzylic sp³ C–H Bond Amination for the Synthesis of 2-Arylquinazolines from 2-Aminobenzaldehydes, 2-Aminobenzophenones and 2-Aminobenzyl Alcohols; D. S. Deshmukh and B. M. Bhanage; **Synlett** 2018, 29, 979–985. (Impact factor: 2.418)

13. Participation in Seminars, Workshops and Conference:

1. Paper presented entitled “Redox-neutral synthesis of isoquinolines using cp*Co(III) catalysed annulation of N-cbz hydrazones via C-H/N-N bond activation” in the Second International web Conference on “**Advanced Material Science and Nanotechnology**” organised by Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar, Dist. Amravati on 23rd to 25th November 2021.

2. Attended **Online Refresher Course In Chemistry For Higher Education** organized by S.G.T.B. Khalsa College, University of Delhi held from 01st Dec 2020 to 31st Mar 2021.

3. Attended online “**Faculty Induction Programme/Orientation Programme**”

organized by Teaching Learning Centre (TLC), Ramanujan College in association with Research Development and Services Cell, Ramanujan College, University of Delhi under MHRD-sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), held from 4th June, 2020 to 1st July, 2020.

4. Paper presented entitled "Iodine-Catalyzed Benzylic sp³ C–H Bond Amination for the Synthesis of Quinazolines from 2-Aminobenzaldehyde, 2-Aminobenzophenone and 2-Aminobenzyl Alcohol" in the online National Conference on "**Recent Advances in Chemical Sciences (NCRACS-2020)**" organised by Department of Chemistry and IQAC, Shankarlal Khandelwal Arts, Science and Commerce College, Akola on 1st and 2nd May 2020.

5. Presented a paper entitled 'Synthesis of isoquinolines: *N*-tosylhydrazone directed annulation via C-H/N-N bond activation using recyclable Ru(II)/PEG-400 catalytic system,' at **International Conference on Frontiers in Chemical Sciences (FICS 2018)**: 6th – 8th December 2018; Indian Institute of Technology, Guwahati, India.

6. Presented a paper entitled 'Molecular Iodine-Catalyzed Benzylic sp³ C–H Bond Amination for Synthesis of 2-Arylquinazolines from 2-Aminobenzaldehyde, 2-Aminobenzophenone and 2-Aminobenzyl Alcohol,' at **Indo-Japan Conference (IJC-2018)**: 18th – 19th January 2018; CSIR-NCL, Pune, India.

7. Presented a paper entitled 'A green synthesis of *N*-containing heterocycles *via* C-H bond functionalization reactions,' at **National Conference on Innovative Research in Science and Technology (NCIRST-2019)**: 17th and 18th December 2019; Shri Shivaji Science College, Amravati, Maharashtra, India. (2nd prize for oral presentation)
8. Presented a paper entitled 'A green synthesis of isoquinolines and isoquinolinones *via* C-H bond activation reactions,' at **National Conference on Multidisciplinary Research in Science and Technology (NCRMST-2020)**: 24th January 2020; Shri R. L. T. College of Science, Akola, Maharashtra, India. (Best oral presentation prize)
9. Participated in **American Chemical Society School Festival**, held at Institute of Chemical Technology, Mumbai, India on 19th and 20th March, 2018.
10. Participated in **Advances in Organometallic and Bio-Organometallic Chemistry (AOBOC-2018)**, held at Institute of Chemical Technology, Mumbai, India on 20th and 21st February, 2018.
11. Participated in **Workshop on Laboratory Safety-Pitfalls and Remedies**, held at Institute of Chemical Technology, Mumbai, India on 27th and 28th February, 2017.
12. Participated in **Workshop cum Training Programme on Analytical Instrumentation Phase – II**, held at Institute of Chemical Technology, Mumbai, India on 21st and 22nd February, 2017.

13. Participated in Asia-Pacific Congress on Catalysis (APCAT-7) held at Hotel The Lalit, Mumbai, India on 17th to 21st January, 2017.

14. Participated in The international Symposium on “The Recent Developments in Chromatography & Mass Spectrometry”, held at Institute of Chemical Technology, Mumbai, India on 18th and 19th November, 2016.

15. Participated in Workshop on Nanomaterials: Emerging trends, held at Institute of Chemical Technology, Mumbai, India on 16th and 17th September, 2016.

16. Participated in 16th Orientation Programme in Catalysis Research, held at National Centre for Catalysis Research, Indian Institute of Technology Madras, Chennai, India from 24th November to 12th December 2015.