

# Curriculum Vitae

**Dr. Dipak Subhash Gaikwad**

**M.Sc. Ph.D. Organic Chemistry**

**Permanent Address:** A/p- Mohol, Gaikwad Wasti, Narkhed road, Tal-Mohol, Dist-Solapur, Maharashtra, India 413213

**Current Address:** 167/2, Samarth Park, Shantinagar, Pachgaon, Tal-Karveer, Dist. Kolhapur, Maharashtra, India 416013

**Contact:** +91-8087806022, +91-7972286435

**Email:** [dgchemistry@gmail.com](mailto:dgchemistry@gmail.com); [dipak.solapur@gmail.com](mailto:dipak.solapur@gmail.com)



## **Personal Details:**

Date of Birth : 7<sup>th</sup> March, 1985  
Gender : Male  
Nationality : Indian  
Caste-Subcaste : Hindu-Maratha  
Blood Group : 'A'+ve  
Marital status : Married

## **Educational Qualifications:**

Degree/ Course	University/Board	Subject/Specialization	Year of Passing	Marks/Class
Ph.D.	Shivaji University, Kolhapur	Organic Chemistry	Sep. 2013	--
M.Sc.	Shivaji University, Kolhapur	Organic Chemistry	Apr. 2007	72.00 % I <sup>st</sup> Class with Dist.
B.Sc.	Shivaji University, Kolhapur	Chemistry	Apr. 2005	75.80 % I <sup>st</sup> Class with Dist.
H.S.C.	Pune Board	Physics, Chemistry, Biology	Feb. 2002	65.00 % I <sup>st</sup> Class
S.S.C.	Pune Board	Languages, Science, Social science, Maths	March 2000	72.66 % I <sup>st</sup> Class

➤ Doctor of Philosophy, Organic Chemistry June 2009- September 2013

Ph.D. Degree Awarded on 16<sup>th</sup> Sep 2013

Department of chemistry, Shivaji University Kolhapur, Maharashtra, India.

Title: **“Synthetic studies in coupling and multi-component reactions”**

Under the guidance of

**Dr. D.M. Pore (M.Sc., Ph.D.)**

Assistant Professor in Organic Chemistry, Department of Chemistry Shivaji

University Kolhapur, Maharashtra, India

**Academic Projects:**

- A Major Project completed sanctioned by Science and Engineering Research Board (SERB) New Delhi, Under the Scheme for Young Scientist, "Title: Catalysis in ionic liquids (ILs): A Greener approach for Organic Transformations" Worth Rupees 28,60,000/- from **Sep 2015-Aug 2018**.

**Research Thrust area:**

1. Organic Synthesis, Catalysis
2. Organometallic Chemistry: Synthesis and application of Palladium metal complex
3. A Green Chemistry approach for Organic transformation
4. Catalysis in Ionic Liquid: Synthesis and applications
5. Synthesis and applications of Metal Nanoparticles

**Teaching Experience:**

- Worked as Teaching Assistance under the Scheme "Teaching Assistantship Programme" of Shivaji University, Kolhapur, Maharashtra, India at Department of Chemistry, Shivaji University, Kolhapur.

**Sep 2010-Apr 2011**

- Working on Clock Hour Basis B.Sc. & M.Sc. (Organic Chemistry) at Department of Chemistry, Vivekanand College, Kolhapur, Maharashtra, India.

**June 2013-Present**

**Research/ Industrial Experience:**

- *Trainee Research Associate R&D* **June 2007–August 2007**  
Excel Industries Ltd., Roha, Raigad, Maharashtra, India.

- *Research Associate R&D* **August 2007–Sep 2009**  
Jubilant Chemsys Ltd., Noida, Uttar Pradesh, India.

📖 *Instruments handled:* IR Spectrometer, NMR instrument, Flash column chromatography, Microwave (Biotage, Discovery), Orbital shaker, Parallel synthesizer, Ozonizer apparatus and Parr-shaker hydrogenation apparatus.

**Other Achievements:**

- Ekalavya Merit Scholarship From Govt. of Maharashtra, India  
**2005-2007**

- Senior Research Fellow from CSIR New Delhi, India.

**April 2013-Oct 2013**

### **List of Publications:**

- 1 Multi-functionalized ionic liquid with in situ-generated palladium nanoparticles for Suzuki, Heck coupling reaction: a comparison with deep eutectic solvents  
**Gaikwad, D.S.**, Undale, K.A., Patil, D.B., Pore, D.M.  
Journal of the Iranian Chemical Society, 2019, 16, 2, 253–261  
<https://link.springer.com/article/10.1007/s13738-018-1503-z>
- 2 A new dual basic ionic liquid promoted synthesis of spiro[naphthalene-2,5'-pyrimidine]-4-carbonitrile  
**D. S. Gaikwad**, V. B. Gawade, A. B. Kamble, N. H. Nimbalkar, Y. B. Pujari, K. A. Undale, D. B. Patil, D. M. Pore  
[Research on Chemical Intermediates](https://doi.org/10.1007/s11164-018-3565-z), 2018, 44, 12, 7437–7447  
<https://link.springer.com/article/10.1007/s11164-018-3565-z>
- 3 Synthesis of magnetically separable catalyst Cu-ACP-Am-Fe3O4@SiO2 for Huisgen 1,3-dipolar cycloaddition  
**S.P.Vibhute**, **P.M.Mhaldar**, **S.N.Korade**, **D.S.Gaikwad**, **R.V.Shejawal**, **D.M.Pore**  
[Tetrahedron Letters](https://doi.org/10.1016/j.tetlet.2018.06.043) Volume 59, 41, 2018, 3643-3652  
<https://www.sciencedirect.com/science/article/pii/S0040403918310463>
- 4 A task-specific biodegradable ionic liquid: a novel catalyst for synthesis of bicyclic ortho-aminocarbonitriles  
**Gaikwad, D.S.**, Undale, K.A., Patil, D.B., Patravale, A.A., Kamble, A.A.  
[Journal of the Iranian Chemical Society](https://doi.org/10.1007/s13738-018-1315-1) May 2018, 15, 5, 1175–1180  
<https://link.springer.com/article/10.1007/s13738-018-1315-1>
- 5 Triton X-100 stabilized Pd nanoparticles and their catalytic application in one-pot sequential Heck and Hiyama coupling in water  
**Gaikwad, D.S.**, Undale, K.A., Patil, D.B., Pore, D.M., Kamble, A.A.  
[Research on Chemical Intermediates](https://doi.org/10.1007/s11164-017-3102-5) 2018, 44, 1, 265–275  
<https://link.springer.com/article/10.1007/s11164-017-3102-5>
- 6 In-situ-generated palladium nanoparticles in novel ionic liquid: an efficient catalytic system for Heck–Matsuda coupling  
**D. S. Gaikwad**, K. A. Undale, D. B. Patil D. M. Pore S. N. Korade A. A. Kamble  
[Research on Chemical Intermediates](https://doi.org/10.1007/s11164-017-2888-5) 2017, 43, 8, 4445–4458  
<https://link.springer.com/article/10.1007/s11164-017-2888-5>
- 7 Dual functionalized task specific ionic liquid promoted in situ generation of palladium nanoparticles in water: synergic catalytic system for Suzuki-Miyaura cross coupling

- Patil, J.D., Korade, S.N., Patil, S.A., **Gaikwad, D.S.**, Pore, D.M.  
**RSC Adv.**, 2015, **5**, 79061-79069  
<https://pubs.rsc.org/en/content/articlelanding/2015/ra/c5ra17186e#!divAbstract>
- 8 Catalyst-free access to pseudo multi-component synthesis of benzopyranopyrimidines  
[Shaikh, T S](#), [Patil, J D](#), [Gaikwad, D S](#), [Hegade, P G](#), [Patil, P B](#), [Undale, K A](#), [Mane, M MPore, D M](#)  
IJCB 53B 2014, (10) 1288-1294  
<http://nopr.niscair.res.in/handle/123456789/29475>
- 9 Green access to multi-component synthesis of spiropyranopyrazoles  
Pore, D.M., Hegade, P.G., **Gaikwad, D.S.**, Patil, P.B., Patil, J.D.  
Letters in Organic Chemistry, Volume 11 , Issue 2 , 2014  
<http://www.eurekaselect.com/115836/article>
- 10 Green access to novel spiropyranopyrazole derivatives  
[D.M.Pore](#), [P.B.Patil](#), [D.S.Gaikwad](#), [P.G.Hegade](#), [J.D.Patil](#), [K.A.Undale](#)  
Tetrahedron Letters 54, 44, 2013, 5876-5878  
<https://www.sciencedirect.com/science/article/pii/S0040403913014706>
- 11 Ferrocene-tagged N-heterocyclic carbene-Pd complex for Suzuki-Miyaura coupling  
Pore, D.M., **Gaikwad, D.S.**, Patil, J.D.  
[Monatshefte für Chemie - Chemical Monthly](#) 2013, 144, **9**, 1355–1361  
<https://link.springer.com/article/10.1007/s00706-013-0970-2>
- 12 Palladium-nanoparticle-catalyzed Matsuda-Heck reaction in water  
**Dipak S. Gaikwad**, Dattaprasad M. Pore  
Synlett 2012; 23(18): 2631-2634  
<https://www.thieme-connect.com/products/ejournals/pdf/10.1055/s-0032-1317477.pdf>
- 13 Potassium phosphate catalyzed efficient synthesis of 3-carboxycoumarins  
Undale, K.A., **Gaikwad, D.S.**, Shaikh, T.S., Desai, U.V., Pore, D.M.  
Indian Journal of Chemistry - Section B Organic and Medicinal Chemistry  
2012, 51, 1039-1042  
[http://nopr.niscair.res.in/bitstream/123456789/14362/1/IJCB%2051B\(7\)%201039-1042.pdf](http://nopr.niscair.res.in/bitstream/123456789/14362/1/IJCB%2051B(7)%201039-1042.pdf)
- 14 A novel hydrophobic fluoros ionic liquid for ligand-free Mizoroki-Heck reaction  
**Gaikwad, D.S.**, Park, Y., Pore, D.M.

- [Tetrahedron Letters](#), **53**, **24**, 2012, 3077-3081  
<https://www.sciencedirect.com/science/article/pii/S004040391200603X>
- 15 Envirocat EPZ-10: An efficient catalyst for the synthesis of 3-acetoacetylcoumarins  
Shaikh, T.S., Undale, K.A., **Gaikwad, D.S.**, Pore, D.M.  
*Comptes Rendus Chimie* **14**, **11**, 2011, 987-990  
<https://www.sciencedirect.com/science/article/pii/S1631074811001470>
- 16 An efficient multi-component synthesis of (2-amino-3-cyano-4H-chromen-4-yl) phosphonic acid diethyl ester  
**Gaikwad, D.S.**, Undale, K.A., Shaikh, T.S., Pore, D.M.  
*Comptes Rendus Chimie* **14**, **10**, 2011, 865-868  
<https://www.sciencedirect.com/science/article/pii/S1631074811000373>
- 17 One-pot multi-component synthesis of polyhydroquinolines at ambient temperature  
Undale, K.A., Shaikh, T.S., **Gaikwad, D.S.**, Pore, D.M.  
*Comptes Rendus Chimie* **14**, **5**, 2011, 511-515  
<https://www.sciencedirect.com/science/article/pii/S1631074810002602>
- 18 A green protocol for catalyst-free synthesis of 1-oxo-hexahydroxanthenes in aqueous medium  
Pore, D.M., Shaikh, T.S., Undale, K.A., **Gaikwad, D.S.**  
*Comptes Rendus Chimie* **13**, **12**, 2010, 1429-1432  
<https://www.sciencedirect.com/science/article/pii/S1631074810001876>

**Participation in Conferences/ Workshops/ Seminars:**

1. Presented a poster in National seminar on "Advanced Synthetic Methodologies and Functional Materials" 2009 organized by Dept. of chemistry Shivaji University Kolhapur, Maharashtra, India.
2. Attended a National seminar on "Advances in Coordination chemistry" August 2010 organized by Rajarshi Chhatrapati Shahu college, Kolhapur Maharashtra, India.
3. Presented a poster in National seminar on "Applications of Spectroscopic Methods in Chemical Science, (ASMCS-2010)" organized by Arts, science college of Parner, Ahmadnagar, Maharashtra, India.
4. Presented a poster in National seminar on "Advanced Synthetic Methodologies and New Materials" 2011 organized by Dept. of chemistry Shivaji university Kolhapur, Maharashtra, India.
5. Poster presented in National Conference on "Recent Trends in Organic

Synthesis” Feb-2011 organized by Bhartidasan University, Tiruchirapalli, Tamilnadu, India.

6. Attended a National conference on “Current Research in Chemical Sciences” Jan 22 & 23 2013, organized by Dept. of chemistry Shivaji university Kolhapur, Maharashtra, India.

**References:**

**Prof. (Dr.) D. M. Pore**

**(M.Sc., Ph.D.)**

Professor (Organic Chemistry)

Department of Chemistry

Shivaji University Kolhapur,

Maharashtra, India-416004

Email: [p\\_dattaprasad@rediffmail.com](mailto:p_dattaprasad@rediffmail.com)

Contact: +91-8087268810

**Prof. (Dr.) G. B. Kolekar**

**(M.Sc., Ph.D.)**

Professor

Department of Chemistry

Shivaji University, Kolhapur,

Maharashtra, India-416004

Email: [gbkolekar@yhao.co.in](mailto:gbkolekar@yhao.co.in)

Contact: +91-9423281085

**Declaration:**

I hereby declare that particulars in the resume are correct to the best of my knowledge. Thank you for pursuing my personnel information.



Yours faithfully  
Dipak S. Gaikwad