

Curriculum Vitae

- ❖ Name: Dr. Rajendra Dhanraj Patil
- ❖ Department: School of Chemical Sciences
- ❖ Current Designation: Assistant Professor
- ❖ Gender: Male
- ❖ Specialization: Organic Chemistry
- ❖ Educational Details (UG and above):



Degree	Specialization	Year	University	Percentage/ Grade
B.Sc.	Chemistry	2004	North Maharashtra University, Jalgaon, Maharashtra.	80.73 (Distinction)
M.Sc.	Organic Chemistry	2006	North Maharashtra University, Jalgaon, Maharashtra.	68.95 (First Class)
Ph.D.	Chemistry	2012	CSIR-CSMCRI, Bhavnagar, Gujarat. Affiliated to Bhavnagar University, Bhavnagar, Gujarat.	--

- ❖ Experience (academic):

Sr. No	Position	Institute/University	Period
1	Assistant Professor	KCES, M. J. College, Jalgaon	September 2019-till the date
2	Assistant Professor	Sandip University, Nashik, Maharashtra	June 2016-September-2019
3	UGC-DSK Postdoctoral Fellow	Department of Chemistry, MS University, Baroda, Gujarat	May 2016-June 2016
4	Postdoctoral Fellow	Hebrew University of Jerusalem, Israel	January 2014-December 2015
5	Postdoctoral Fellow	Nanyang Technological University, Singapore	September 2012-October 2013

- ❖ Awards/Recognition:

Sr. No.	Awards/ Recognition	Year	Description
1	First Prize-Oral Presentation	2020	National conference-“RTICS”, 2020, Organized by Dadasaheb D. N. Bhole College, Bhusawal, Maharashtra.
2	Resource Person	2019	National Conference-“MGCMCE-2019” Organized by LVH Naik College, Nashik (sponsored by Pune University, Pune).
3	Invited Speaker	2019	Nanotsav-19 organized by Sandip University, Nashik

4	Session Co-Chair	2018	International conference-“ICEMELTS-2018” Organized by Sandip University.
5	UGC-DSK PDF	2016	UGC, New Delhi (April-2016, 63th List).
6	Postdoctoral Fellowship	2013	College of Health Sciences, University of Kwazulu-Natal, Durban, South Africa.
7	CSIR-Senior Research Fellowship	2010	Council of Scientific and Industrial Research, Govt. of India.
8	Young Scientist Award	2010	ETIC-2010, SP-University of Pune, Maharashtra, India.
9	Best Paper Award	2010	International conference-“ISMC-2010”, Bhabha Atomic Research Center, Trombay, Mumbai, Maharashtra, India.

❖ Research:

Research Area: Green Chemistry, Corbocatalysis, Nano-catalysis, Synthesis of biologically active molecules and Development of synthetic methodology.

Research Publications: 21

Citations = 571, h-index = 10, i10-index = 12

Sr. No.	Author(s)	Journal, Year	Title	Impact Factor*
1	N. K. Reddy, S. N. Rao, Rajendra D. Patil , S. Adimurthy	<i>Adv. Mater. Sci.</i> 2018 , 3(1), 1-7.	Transition metal-free hydration of nitriles to amides mediated by NaOH	--
2	Rajendra D. Patil ,* B. Fuchs, N. Taha, Y. Sasson	<i>ChemistrySelect</i> , 2016 , 1, 1-7.	Solvent-free and selective autooxidation of alkylbenzenes with dioxygen co-catalyzed by Co/NHPI under phase transfer conditions	1.81
3	Rajendra D. Patil ,* Y. Sasson	<i>Catal. Lett.</i> , 2016 , 146, 991.	Naphthalenes oxidation by aqueous sodium hypochlorite catalyzed by ruthenium salts under phase-transfer catalytic conditions	2.48
4	Rajendra D. Patil ,* Y. Sasson	<i>Synfacts</i> , 2016 , 12, 206	Water/Iron Powder as a Hydrogen Source in Olefin Hydrogenation	--
5	Rajendra D. Patil ,* Y. Sasson	<i>Asian JOC</i> , 2015 , 4, 1258-1261.	Generation of hydrogen from zero valent iron and water: catalytic transfer hydrogenation of olefins in presence of Pd/C	3.13

6	Rajendra D. Patil, Y. Sasson	<i>Applied Catalysis A: General</i> , 2015 , 499, 227-231.	Selective transfer hydrogenation of phenol to cyclohexanone on supported palladium catalyst using potassium formate as hydrogen source under open atmosphere	5.00
7	Rajendra D. Patil,* Y. Sasson	<i>Organic Chem. Curr. Res.</i> , 2015 , 4, doi:10.4172/2161-0401.1000154.	Chemoselective reduction of nitroarenes to aromatic amines under mild and non-hazardous reaction conditions	--
8	Rajendra D. Patil, S. Adimurthy	<i>Asian JOC</i> , 2013 , 2, 726-744.	Catalysts and methods for imine syntheses. One of the most downloaded paper in the Asian JOC in 2014	3.13
9	Rajendra D. Patil, S. Adimurthy	<i>Adv. Synth. Catal.</i> , 2011 , 353, 1695-1700 This work has been highlighted under —synthetic methods on Wiley website	Copper-catalyzed aerobic oxidation of amines to imines under neat conditions with low catalyst loading.	5.85
10	Rajendra D. Patil, S. Adimurthy	<i>RSC Advances</i> , 2012 , 2, 5119-5122	Copper(0)-catalyzed aerobic oxidative synthesis of imines from amines under solvent-free conditions	3.11
11	Rajendra D. Patil, G. Joshi, S. Adimurthy, B. C. Ranu	<i>Tetrahedron Lett.</i> , 2009 , 50, 2529-2532	Facile one pot synthesis of α -bromoketones from olefins using bromide/bromate couple as a nonhazardous brominating agent	2.27
12	Rajendra D. Patil, G. Joshi, S. Adimurthy,	<i>Ind. Eng. Chem. Res.</i> , 2010 , 49, 8100-8105	HBr-H ₂ O ₂ : A facile protocol for regioselective synthesis of bromohydrins and α -bromoketones and oxidation of benzylic/secondary alcohols to carbonyl compounds under mild aqueous conditions	3.57
13	Rajendra D. Patil, G. Joshi, S. Adimurthy	<i>Chemical Monthly</i> , 2010 , 141, 1093-1099	KHSO ₄ – A highly efficient and reusable heterogeneous catalyst for hydroarylation of styrenes	1.34
14	Rajendra D. Patil, S. Adimurthy	<i>Synth. Commun.</i> , 2011 , 41, 2712-2718	Direct and selective conversion of benzyl bromides to benzaldehydes with aqueous H ₂ O ₂ without catalyst	1.79
15	Rajendra D. Patil, S. Bhadra, S. Adimurthy, B. C. Ranu	<i>Synth. Commun.</i> , 2010 , 40, 2922-2999	Green oxidation of methylarenes to benzoic acids with recyclable bromide/bromate in water	1.79
16	Rajendra D. Patil, S. Adimurthy, B. C. Ranu	<i>Synth. Commun.</i> , 2010 , 40, 3233-3239	Easy Access to α -bromoketones and epoxides from vic-dibromides under aqueous conditions	1.79
17	D. Chandra Mohan, Rajendra D. Patil, S. Adimurthy	<i>Eur. J. Org. Chem.</i> , 2012 , 3520-3525.	H- β -Zeolite catalyzed hydroarylation of styrenes.	2.88

18	R. R. Donthiri, Rajendra D. Patil , S. Adimurthy	<i>Eur. J. Org. Chem.</i> , 2012 , 4457-4461 The article has been cited under most accessed articles of July 2012.	NaOH—catalyzed imine syntheses: aerobic oxidative coupling of alcohols and amines.	2.88
19	G. Joshi, Rajendra D. Patil , S. Adimurthy	<i>RSC Advances</i> , 2012 , 2, 2235-2239	Green bromine: <i>in-situ</i> generated catalyst for selective oxidation of alcohols using H ₂ O ₂ as benign oxidant.	3.11
20	S. Adimurthy, G. Joshi, Rajendra D. Patil	<i>Indian J. Chem.</i> , 2010 , 49B, 1678-1680	High atom efficient and environment-friendly preparation of herbicides bromoxynil and ioxynil.	0.51
21	V. Pappula, R. R. Donthiri, Rajendra D. Patil , S. Adimurthy	<i>J. Energy Chem. Eng.</i> 2013 , 1, 27-50.	Oxidative rearrangement of vinyl bromides to α - bromoketones and direct synthesis of α , α - dibromoketones from alkynes using HBr/H ₂ O ₂ system.	--
22	Rajendra D. Patil ,* Maneesh Kumar Gupta	<i>Adv. Synth. Catal.</i> , 2020 (Communicated)	Methods of nitriles synthesis from amines through oxidative dehydrogenation.	5.85
23	Jayashri D. Bhirud, Rajendra D. Patil ,* Hemant P. Narkhede	<i>Bioorg. Med. Chem. Lett.</i> , 2020 (Communicated)	Sulfamic acid catalyzed synthesis of new 3,5- [(sub)phenyl]-1H-pyrazole bearing N1-isonicotinoyl: and their pharmacological activity evaluation.	2.57

*Corresponding Author **2019 Impact factor.

For publications details, please visit:

<https://scholar.google.co.in/citations?user=iIGRCGcAAAAJ&hl=en>

- ❖ Research Guide with student details: Recognized guide of KBC-NMU, Jalgaon
Ph.D. Students = 0, Ph.D. Students Vacancy = 4
- ❖ Book Published: 02

1. A textbook of Organic Chemistry; F.Y.B.Sc Syllabus by **Rajendra D. Patil**, Jayashri D Bhirud, R. M. Rathod, Prashant Publications, **2020**.

2. A textbook of Practical Chemistry by Jayashri D Bhirud, **Rajendra D. Patil**, R. M. Rathod, Prashant Publications, **2020**.

- ❖ Patent : 1

An improved process for the eco-friendly preparation of 3,5-dibromo-4- hydroxybenzoxynitrile (Bromoxynil)

Publication Number: US20130331596 A1, **Application number:** US 13/981,647

PCT number: PCT/IN2010/000111 **Publication date:** Dec 12, 2013

Inventors: S. Adimurthy, G. Ramachandraiah, G. Joshi, **Rajendra D. Patil**, M. R. Gandhi, P. Maity, S. M. Reddy

❖ Conferences (Presented) : 07

Sr. No.	Author(s)	Details of Conference
1	Rajendra D. Patil	Green chemistry for sustainable future. National conference on Innovative ideas in chemical science and environmental science for sustainable development Organized by H. J. Thim College of Arts and Science, Mehrun, Jalgaon. (M.S.) on 21 st January 2020. (Oral Presentation).
2	Rajendra D. Patil	Green chemistry and Nanocatalysis for sustainable future. National conference on recent trends and innovations in chemical sciences , Organized by Dadasaheb D. N. Bhole College, Bhusawal, Maharashtra (Affiliated to KBC, NMU, Jalgaon) on 3 rd January 2020. (Oral Presentation).
3	Rajendra D. Patil , S. Adimurthy	Green brominating reagent i.e. bromide/bromate couple is a versatile & ecofriendly reagent for an oxidation of olefins, methyl arenas to corresponding α -bromoketones, benzoic acid respectively. International Conference on Emerging Trends in Chemistry (ETIC-2010) held on January, 5 th -7 th , 2010 pp 41-42. Dept. of Chemistry, Pune University, Maharashtra. (Oral Presentation).
4	Rajendra D. Patil , S. Adimurthy	HBr-H ₂ O ₂ : A facile protocol for regioselective synthesis of bromohydrins and α -bromoketones and oxidation of benzylic/secondary alcohols to carbonyl compounds under mild aqueous conditions. The 3rd International Symposium on Materials Chemistry, ISMC-2010 held on December, 7 th -11 th , 2010, pp 480-481. Chemistry Division, Bhabha Atomic Research Center (BARC), Trombay, Mumbai. (Poster Presentation).
5	D. Chandra Mohan, Rajendra D. Patil , S. Nageswara Rao S. Adimurthy	Copper-Catalyzed Aerobic oxidative C-N bond formation and cyclization. National Symposium on Transcending Frontiers in organic Chemistry held on October 9-11, 2014, pp 133. Organised by CSIR-National Institute for Interdisciplinary Science and Technology, (CSIR-NIIST), Thiruvananthapuram, Kerala, India.
6	G. Joshi, Rajendra D. Patil , S. Adimurthy	KHSO ₄ -A highly efficient and reusable heterogeneous catalyst for hydroarylation of styrenes The 3rd International Symposium on Materials Chemistry, ISMC-2010 held on December, 7 th -11 th , 2010, pp 466-467. Chemistry Division, Bhabha Atomic Research Center (BARC) Trombay, Mumbai. (Poster Presentation).
7	Rajendra D. Patil , Girdhar Joshi, K. C. Chunavala, S. Adimurthy	A sustainable approach for important organic functional group transformations. Western India Research Scholars Meet (WIRSM-2011) held on September, 17 th , 2011. Dept. of Chemistry, MS University of Baroda, Vadodara. (Oral Presentation).

❖ Conferences (Attended): 02

1. 80th Annual meeting of the Israel Chemical Society conference; held on 17-18 February 2015 organized at the David Intercontinental Hotel, Tel Aviv, Israel.
2. Attainment of Work-shop on “Outcome Based Education (OBE)” organized at Sandip University, Nashik in 22nd-24th August 2017.

❖ Invited talks/Guest Lectures: 02

1. Department of Chemistry, MS University of Baroda, Vadodara, Gujarat, India, on 9th March 2016. Topic, “Transfer hydrogenation and phase transfer catalysis: for upgradation of sustainable organic chemistry”.
2. Department of Chemistry, Indian Institute of Technology (IIT), Indore, M.P., India, on 26th March 2013. Topic, “Development of novel and sustainable method for important functional group transformations”.

❖ Responsibilities Shouldered:

1. Committee member, NAAC Criteria VI.
2. Chemistry Talent Search, Exam Coordinator conducted at Chalisgaon, Maharashtra (Date: 05/01/2020).
3. Educational Industrial Tour to Mapro Industry, Panchgani, Maharashtra. (Date: 18/01/2020 to 21/01/2020).

❖ Participation in Extracurricular activity:

1. **Coordinator** : Webinar on "Challenges and opportunities for family in this corona virus pandemics" organized by School of Chemical Sciences, M. J. College, Jalgaon, In Collaboration with the Bahai Academy, Panchgani, held on 7th May, 2020.
2. **TSCCIL-2020 Workshop Treasurer**: “Training and Safety in Chemical, Clinical and Industrial Laboratories – 2020” organized by School of Chemical Sciences, M. J. College, Jalgaon, held on 11th January, 2020.
3. **Coordinator**: Guest Lecture on “Biodegradable Polymer”, Speaker: Dr. B. B. Idge, Former Scientist, NCL Pune, held on 15th January 2020.
4. **CIPRPS-2020 Organizing committee member**: “Challenges in Intellectual Property Rights and Patent System-2020” organized by School of Chemical Sciences, M. J. College, Jalgaon, held on 26th February, 2020.

❖ Academic Services:

1. Member of Israel Chemical Society.
2. Chairman, Board of Studies in Chemistry, School of Science, Sandip University, Nashik (Year, 2018).
3. Reviewer: ACS, RSC, Willey and Bentham Publications.
4. Participated in syllabus enclosing and attended BOS in Chemistry, School of Chemical Sciences, M. J. College, Jalgaon.

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