

Dr. Sandip B Rathod



Present Designation: Assistant Professor
Department of Chemistry,
Waghire College of Arts, Commerce and Science, Saswad,
Purandar, Pune-412301

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Personal Details

Date of Birth: 21st November 1981

Gender : Male

Nationality: Indian

Marital Status: Married

Language Known: Marathi, Hindi, English

Blood group : AB+

Academic Details

2010	Ph.D. Chemistry Awarded	Dr. Babsaheb Ambedkar Marathwada University, Aurangabad, India
2005	M.Sc, Physical Chemistry	Dr. Babsaheb Ambedkar Marathwada University, Aurangabad, India
2003	B.Sc Chemistry	Dr. Babsaheb Ambedkar Marathwada University, Aurangabad, India

Research Specialization

- Synthesis of metal/mixed metal oxides
- Photo catalytic degradation studies of transition metal/mixed metal oxides
- Material chemistry
- Heterogeneous catalysis

Teaching Experience

- U.G. : 08 years
- P.G. : 05 years

Recognition/Awards

- Recipient of the Young Scientist Prof. A.K. Dey, Memorial Awards for the Presentation of a paper entitled “Synthesis, Characterization and Catalytic Application of mixed metal oxides” in the Inorganic Chemistry Section of the Annual Conventions of Chemists 2009 held at VIT, University, Vellore, Tamilnadu, India during December 02-06, 2009.
- Recipient of First Prize Best Oral Paper Presentation Award for paper entitled “Synthesis of metal/mixed metal oxides and their applications ”in National Conference on “Recent Trends in Chemistry” (NCRTC-2012) organized by Shivaji Arts, Commerce and Science college, Kannad, Aurangabad, M.S. India during September- 22-23,2012.
- M.Phil. Chemistry, Research Guide Recognition of Savitribai Phule Pune University, Pune in 2018.
- PG Teacher Recognition of SPPU, Pune from 2018.

Refresher/ Orientations Programmes

Sr.No.	Name of the course	Duration	Place
1	Orientation Course	03.11.2014 to 30.11.2014	UGC-HRDC Savitribai Phule Pune University, Pune
2	Refresher Course in Chemistry	10.07.2015 to 30.07.2015	UGC-HRDC Central University, Hyderabad.
3	Refresher Course in Environmental Sciences	09/12/2019 to 22/12/2019	UGC-HRDC Savitribai Phule Pune University, Pune
4	Online Refresher Course In Chemistry For Higher Education	15 week Started on 1 Sep 2019	SWAYAM ARPIT ONLINE COURSE

International Research Publications

1	Synthesis and characterization of FeTiO ₃ ceramics. A.B. Gambhire, M.K.Lande, S.B. Rathod , B.R.Arbad, K.N.Vidhate, R.S. Gholap, <i>Arabian Journal of Chemistry.</i> , 9, 429-432, (2016)	IF-4.553
2	Preparation Characterization and catalytic Application of MoO ₃ /CeO ₂ -ZrO ₂ as a heterogeneous catalyst for synthesis of β-Enaminones. S.B. Rathod , M.K. Lande, B.R.Arbad, <i>Arabian Journal of Chemistry.</i> , 7, 253-260, (2014)	IF-4.553
3	Preparation, characterization and catalytic application of Nanosized Ce ₁ Mg _x Zr _{1-x} O ₂ solid catalyst for the synthesis of Tetrahydrobenzo[b]pyran derivatives. Sandip Rathod , Balasaheb Arbad, Machhindra lande, <i>Chinese Journal of Catalysis.</i> , 31 (1) (2010) 631-636.	IF-1.964
4	Degradation of Methylene Blue <i>via</i> Photocatalysis of transition metal loaded sulfated TiO ₂ .Anil Gambhire, Balasaheb Arbad, Sandip Rathod , M.E. Navgire, Machhindra Lande, <i>Materials Chemistry and Physic.</i> , 125 (2011) 807-512.	IF-2.083
5	Effect of Polyethylene Glycol-400 and Carbon on MoO ₃ Nanocomposite Materials and its catalytic activity for Biginelli reactions. Madukar Navgire, Machhindra Lande, Balasaheb Arbad Sandip Rathod , Ajit Yelwande, <i>Bulletin of Material Science.</i> , 34 (3) (2011) 535.	IF-0.899
6	Indium Modified Mesoporous Zeolite Al/MCM-41 as a Heterogenous Catalyst for the Knoevenagel Condensation reaction .Santosh S. Katkar, Machhindra K.Lande, Sandip B. Rathod , Balasaheb R. Arbad <i>Bull.Kor.Chem.Soc.</i> 31 (1) (2010) 5.	IF-0.899
7	An Efficient Green Synthesis of Quinoxaline Derivatives using Carbon doped MoO ₃ -TiO ₂ as a Heterogeneous Catalyst. Madukar navgire, Machhindra Lande, Balasaheb Arbad, Sandip Rathod , Ajit Yelwande, <i>Journal of Industrial and Engineering Chemistry.</i> , 18, 277-282, (2012)	IF-2.873

8	Synthesis, Characterization and Catalytic Application of MoO ₃ /CeO ₂ -ZrO ₂ Solid Heterogeneous Catalyst for the Synthesis of Benzimidazole Derivatives. Sandip Rathod , Machhindra Lande, Balasaheb Arbad, <i>Bull.Kor.Chem.Soc.</i> 31,(2) (2010),339-343.	IF-0.899
9	Synthesis, Characterization and catalytic activity of Ce ₁ Mg _x Zr _{1-x} O ₂ (CMZO) solid heterogeneous catalyst for the synthesis of 5-arylidine barbituric acid derivatives. Sandip Rathod , Anil Gambhire Machhindra Lande, Balasaheb Arbad, <i>Bull. Kor.Chem. Soc.</i> 31, (10) (2010), 2835-2840.	IF-0.899
10	Preparation of Mg doped CeO ₂ -ZrO ₂ solid catalyst for the synthesis of 5-arylidene-2,4-thiazolidinedione Sandip Rathod , M.Navgire, B.Arbad, Machhindra Lande, <i>S.Afr.J.Chem.</i> (2012), 65,196-201.	IF-0.672
11	Ce ₁ Mg _x Zr _{1-x} O ₂ (CMZO): An efficient and eco-friendly solid heterogeneous catalyst for the synthesis of 5-arylidene malononitrile derivatives. Sandip B.Rathod , Machhindra Lande, Balasaheb R.Arbad, <i>Org.Chem.Ind.J.</i> (2009),5(4)	-

Participation in National/International Seminar / Conferences/Workshops

Sr.No.	Name of Conference/Seminar	Duration	Level	Attended/Title of paper if presented	Chairperson/ resource person
1	Application of Nanotechnology in Science	11 th and 12 th January 2019	National	-	Member of organizing committee
2	Recent Trends in Green Chemistry	28 th -29 th December 2018	National		participant
3	“Recent Trends in chemical and biological sciences”(RTCBS-2018)	06 Feb 2018 To 08 Feb 2018	National Conference	Organizing Committee Member	Chair Person
4	“Recent Trends in chemical and biological sciences”(RTCBS-2018)	06 Feb 2018 To 08 Feb 2018	National Conference	Poster Presented on Preparation, Characterization - --	-
5	“Characterization Techniques in Materials”(CTM-2017)	09Feb-2017	State Level Seminar	Participant	-
6	“Water Olympiad Competitions-2018”	10 Jan 2018	One day Workshop	Participant	-
7	“National Teacher Congress , MIT Pune India”	23 Sep 2016 To 25 Sep 2016	National	Teachers Participant	-
8	“Quality Enhancement in colleges through IQAC” (QEC-2015)	16 Feb 2015 To 17 Feb 2015	National conference	Chip-In	-

9	Emerging Trends in Physical, Chemical and Life Sciences	16 Feb 2015 To 17 Feb 2015	National Conference	Organizing Committee Member	-
10	Human Rights Education (HRE-2015)	17 Feb 2015 To 18 Feb 2015	National Conference	Chief-In	-
11	Recent trends in Chemistry (NCRTC-2012)	22 Sep 2012 To 23 Sep 2012	National Conference	Participant and oral paper presented	-
12	Recent Advances in chemical and environmental Sciences (RACES-2012)	10 Feb 2012 To 12 Feb 2012	National Seminar	Participant	-
13	Probing Electronic states in molecules and molecular materials	21 Oct 2010 To 25 Oct 2010	Workshop	Participant	-
14	Recent Advances in Spectroscopy and its Applications	04 Feb 2010 To 05 Feb 2010	State Level Seminar	Participant	-
15	Recent Research Trends in Chemical Sciences	02 Dec 2009 To 06 Dec 2009	International Conference	Oral Paper Presented	-
16	Bio-catalysis and Bio-mimetic Catalysis in Organic Synthesis	20 Mar 2009 To 21 Mar 2009	National Seminar	Participant	-
17	Radiochemistry and Application of Radioisotopes	11 Aug 2008 To 18 Aug 2008	National Workshop	Participant	-
18	Kinetics and Mechanistic studies of Chemical and Biochemical Transformations	26 Feb 2005 To 27 Feb 2005	National Seminar	Participant	-

Responsibilities and other Activities

- ❖ Working as NSS Programme Officer from (2016-17, 2017-18, and 2018-2019).
- ❖ Participation in extra co-curricular activities such as working as Programme Officer, organizing University Level Camp on “Role of Youth for Water Conservation” at Ketkawale, Tal: Purandar, Dist:Pune during 29th April to 2017 to 03rd May 2017.
- ❖ Working as Criterion-I (Curricular Aspects) Chairman for the year (2013-14, 2014-15, and 2015-16).
- ❖ As a Research Committee member.
- ❖ Member of Criterion V Students Progression
- ❖ Working as Organizing Committee Member of National conference (RTCBS-2018).
- ❖ As a Chairperson, of chairing the session of Ms. Princy Achankunju, Lupin Pharma Ltd. as a resource person delivered lecture on “Project Management” in national conference 6th to 8th Feb-2018,(RTCBS-2018) organized by Department of Chemistry, Waghire College, Saswad.
- ❖ As an Editorial Member of WCS Multidisciplinary Research Journal.
- ❖ Working as External Senior Supervisor (Oct/Nov-2017) for University Examination at S.P.College, Jejuri, Purandar, Pune.

- ❖ Working as External Senior Supervisor for University Examination at Anantrao Thopate College, Bhore, Pune.
- ❖ Appointed as Internal Examiner in conducting T.Y.B.Sc. Physical Chemistry Practical Examination (Mar/April-2015) from 22, 23 and 24 March 2015 at Waghire College, Saswad, Pune.
- ❖ Appointed as External Examiner in conducting T.Y.B.Sc. Physical Chemistry Practical Examination (Mar/April-2016) from 18, 19 and 20 March 2016 at Divekar Arts, Commerce & Science College, Warwand, Pune.
- ❖ Appointed as External Examiner in conducting T.Y.B.Sc. Physical Chemistry Practical Examination (Mar/April -2017) from 18, 19 and 20 March 2017 at M.S. Kakade College, Someshwarnagar.
- ❖ Appointed as External Examiner in conducting T.Y.B.Sc. Physical Chemistry Practical Examination (Mar/April-2017) at T.C. College, Baramati, Pune.
- ❖ Appointed as External Examiner in conducting M.Sc. Physical Chemistry Practical Examination (April-2017) during 17, 18, 19 and 20 April 2017 at D.Y.Patil College, Pimpri-chinchwad, Pune.
- ❖ Appointed as Internal Senior Supervisor for (Oct/Nov 2017) University Examination, at PDEA'S Waghire College, Saswad.
- ❖ Appointed as Examiner for theory paper assessment of S.Y.B.Sc. and T.Y.B.Sc. for SPPU, university examination.
- ❖ Appointed as External Examiner in conducting T.Y.B.Sc. Physical Chemistry Practical examination March-2018, during 17, 18 and 19 March 2018 at Anantrao Thopte College, Bhore. Pune
- ❖ Appointed as Internal Examiner in conducting T.Y.B.Sc. Physical Chemistry Practical examination March-2018, during 21, 22 and 23 March 2018 at PDEA'S Waghire College, Saswad.
- ❖ Appointed as External Examiner in conducting T.Y.B.Sc. Physical Chemistry Practical examination March-2018, during 24, 25 and 26 March 2018 at Someswar Science College, Someshwarnagar, Tal Baramati, Dist: Pune.