Name of the Faculty: Dr. Sawant Rajashri Bhimraj

Designation: Assistant Professor

Name of the department: Chemistry

Email: rajashriahire@gmail.com

Qualification: M.Sc., B.Ed., M.Phil., Ph.D.

Administrative Experience: Head, Department of Chemistry

Teaching Experience: 17 years

Research Guidance for: Ph. D

Research Projects: 01



Funding	Title of Project	Amount	Duration	Completed/ on
agency		sanctioned		going
UGC	New Synthetic Methodology forConversion of Nitro Group to Amines as well as Ring Opening of Isoxazolidine Ring by Using	405000/-	2017- 2019	Completed
	Molybdenum Metal			

Research paper published:

Sr.	Name of	Title of the paper	Name of the	ISSN No.	Vol	National/
No.	the Author		Journal		Year	International
						/State
1	Mehdi Hasan,	Densities, viscosities, speed of	J. Chem.	0021-9614	43(1),	International
	Sawant Arun	sound, and IR spectroscopic	Thermodynamics		2011	
	B,. Sawant	studies of binary Mixtures of				
	Rajashri B.	tert-butyl acetate with				
	Loke	benzene, methylbenzene,				
	Pratibha G	ethylbenzene at T= (298.15				
		and 308.15)K				
2	Ahire Kailas	Wiener Index and Wiener	Bull. Marathwada	0976-6049	14(2),	International
	S,	Polynomials in Isomers of	Mathematical		2013	
	SawantRaja	organic Compounds	Society			
	shri B.					
3	V R Bagul	New Prospective of Nano-	Souvenir	ISBN 978-	Jan.	State
	R B Sawant	material in Surface Coating	National Seminar on	93-82414-	2013	
	ΑV		Advances in Nano	43-4		
	Gajbhiye		Structured Materials			
			and			
			TheirApplications			

	SawantRaja shri B	Human Values: Higher Education	ScholarsWorld MAAZ Publication	E-2320- 3145	cial	International
					issue) 2016	
5	S,	Hyper-Wiener Index, Hyper- HosoyaPolynomial For Tree of Isomers of Pentane	International Journal of Mathematics And Computer Research	2320-7167	4(1) 2016	International
6	Sawant Rajashri B	Renewable Energy Sources	Scholar's World	2319-5789	6Specia 1 Issue VI, 2016	International
7	Sawant Rajashri B	Molecular Interaction and IR, NMR Spectroscopic Studies of Binary Mixtures of Tert-Butyl Acetate with aromatic Hydrocarbns at T=(303.15 and 313.15) K.	Research Journey MAAZ Publication	2348-7143	Special issue-I, 2016	International
8	Sawant Rajashri B	Molecular Interaction and NMR studies of Binary Mixtures of Tert-Butyl Acetate with Isopro-pylbenzene, isobutylbenzene and Methoxybenzene at T= (303.15 and 313.15)K	Researchers World Edu.Research Multimedia and Publications India	2231-4172	4(4), VII2016	
9	Ahire Kailas S, Sawant Rajashri B	On The Minimum Atom bond Connectivity Index and Geometric Arithemetic Index and Laplacian matrix for Chemical Trees of Isomers	Researchers WorldEdu. Research Multimedia and Publi.India	2231-4172	4(5), VII2016	International
10	Sawant Rajashri B	Volumetric, Viscometric, Acoustic and IR Spectroscopic Studies of Binary Mixtures of Tert-butyl Acetate with Isop- ropylbenzene,Isobutylbenzene, and Methoxybenzene at T= 298.15 and 308.15 K	Journal of Physical Chemistry & Biophysics	2161-0398	6(4), 2016	International
11	Sawant Rajashri B	Oxidation Technology at	Research Journey Academic Book publication		12Specia l Issue 12, 2017	International
12	Sawant Rajashri Bhimraj	Volumetric, Viscometric and Speed of Sound Studies of Binary Mixtures of Tert-butyl Acetate with Fluorobenzene, Chlorobenzene and Bromo- benzene at (298.15 and 308.15) K and at Atmospheric Pressure 0.087 MPa Innovations in Teaching and	Chemistry	0095-9782 2319-9318	47(4), 2018	International

	Sawant	Learning Methods of Chemistry			Dec.201	
14	Ahire Kailas S, Sawant Rajashri B	THE SCHULTZ Index, Modified Schultz Index And Geometric Arithmetic Index, Theoretical Bond Length And Bond Angle Of Chemical Trees of Pentane Isomers	International Journal of Engineering, Science and Mathematics	2320-0294	8(2), 2019	International
15	Rajashri Sawant Dinesh Shirude, UjjanKadam	Densities, viscosities, speed of sound, and IR spectroscopic studies of binarybinary Mixtures of tert-butyl acetate with Fluorobenzene, Chlorobenzene and bromobenzene at T= (303.15 and 313.15)K and at Atmospheric Pressure 0.087MPa.	Journal of Emerging Technologies and Innovative Research	2349-5162	7(11) Nov.20 20	International
16.	Kailas S Ahire Rajashri BSawant	The Topological Indices and Physical Properties of n-heptane Isomers	International Journal of Application or Innovation in Engineering & Management	2319-4847	10 (6) 2021	International
17	Sawant Rajashri B Depre Jaydeep	Environmentally Safe Approaches for the Biosynthesis of Silver Nanoparticles and their Applications	World Journal of Current Scientific Research		1(1) 2021	International
18	Rajeshri B Sawant	Hand Sanitizers: A review on its formulation preventive measures	Vidyavarta	2319- 9318	2022	International

Book/ Chapter in Book/ Editor

Sr.	Name of the	Title of	Name of the	ISBN No.	Year	National/	Name of the
No.	Author	the Book	Chapter			International/	Publisher
						State/ Other	
1	R. B. Sawant	Role of	Women's	978-	Oct.	National	MAAZ
		Women in	Participation	81927005-	2013		Publication
		India	in Indian	5-7			Malegaon
			Politics				

Research paper Presented

Sr. No.	Title of the Paper	Theme of Conference/ Seminar/Workshop	Duration	Organizers	National/ Internationa l/ State/ Other
1	Green Methodology in Nanotechnology: Novel Development of Metal Nanostructures and Its Applications as Catalyst: A review	Current Research In Chemistry and Nano- sciences	18-20 Jan. 2022	L.V.H. College, Panchavati, Nashik	International e- conference
2.	Study of IR, NMR with density, viscosity and speed of sound of tertiary-butyl acetate with benzenes	Innovations in Nano materials and their Applications	18-20 Jan. 2018	L.V.H College, Panchavati (Nashik)	International
3	Waste water Treatment by Oxidation Technology at Ambient Conditions	Role of Environmental Chemistry in Our Life	03 Feb. 2017	S.P.H.Mahila Mahavidyalaya, Malegaon camp	State
4	Molecular Interaction and Studies of Binary Mixtures of tert-butyl acetate with Isopropyl benzene, Isobutyl benzene, and Methoxy benzene at T= 303.15 and 313.15 K	International Conference On Pure and Applied Sciences 2016	12-14 Dec. 2016	M.S.G.College Malegaon-camp	International
5	Molecular Interaction and IR, NMR Spectroscopic Studies of Binary Mixtures of tert-butyl acetate with Aromatic Hydroca-rbons at T= 303.15 and 313.15 K	Emerging Trends and Issue in Research & Development	17-18 Feb. 2016	M.S.G.College Malegaon-camp	International
6	Human Values: Higher Education	Human Values and Role of Higher Education	12-13 Feb. 2016	S.P.H.Mahila Mahavidyalaya, Malegaon camp	National
7	Renewable Energy Sources, Solution to Energy Crises	Eco-Restoration, Environmental Conservation and Management	06-07 Feb.2015	M.S.G.College, Malegaon - Camp	National
8	Women's Participation In Indian Plotics	Women Empowerment"	23-24 Oct. 2013	S.P.H.Mahila Mahavidyalaya, Malegaon camp	National
9	New Perspective of Nano Material in Surface	Advances in Nano- structured Materials & their Applications	22-23 Jan. 2013	Arts, Comm. & Sci. College, Taloda.Nandurba	National

	Coating			r	
10	Wiener Index in Isomers	Recent Developments in	14 -16	T. C.College,	National
	of Organic compounds	Mathematics & Statistics	Feb. 2013	Baramati	

Conference / Seminar/ Workshop organized

Name of the Seminar	Level	Funding	Nature of	Date
		Agency	Contributions	
Role of Environmental Chemistry in	State level	BCUD Pune Uni.	Coordinator	03 Feb.
Our Life	Seminar			2017

Conference / Seminar/ Workshop attended

Sr. No.	Title of Conference/ Seminar/ Workshop	Name of organization	Conference/ Seminar/ Workshop	Duration	National/ International/ State/ Other
1	Chemical Pesticides and Impact on Environment and Human Health	Arts, Sci. & Comm. College, Manmad	Conference	06-07- Jan.2020	State
2	Recent Applications of Mathematics and Statistics	S.P.H.Mahila Mahavidyalaya, Malegaon camp	Conference	03 Feb. 2018	State
3	E-Content Development On Higher Education	M.S.G. College, Malegaon camp	Workshop	12-13 Dec. 2019	State
4	Innovations in Nano materials and their Applications	L.V.H College, Panchavati (Nashik)	Conference	18-20 Jan. 2018	International
5	Emerging Trends and Innovative Practices in Teaching Chemistry	Arts, Sci., and Comm. College, Manmad	Conference	10-11 Jan. 2018	State
6	Water Resources Management: Thrust and Challenges	Arts, Sci., and Comm. College, Surgana	Conference	08 Feb. 2017	State
7	Role of Environmental Chemistry in Our Life	S.P.H.MahilaMahavidyalaya, Malegaon camp	Seminar	03 Feb. 2017	State
8	New Research Trends in Chemistry and Its Application in Environmental Science	Arts, Sci. & Com. College, Chandwad	Conference	26-27 Feb. 2016	State
9	Emerging Trends and Issue in Research & Development	M.S.G.College Malegaon-camp	Conference	17-18 Feb. 2016	International
10	Human Values and Role of Higher Education	S.P.H.MahilaMahavidyalaya, Malegaon camp	Conference	12-13 Feb. 2016	National
11	International Conference On Pure and Applied Sciences 2016	M.S.G.College, Malegaon -Camp	Conference	12-14 Dec. 2016	International
12	Eco-Restoration, Environmental Conservation and Management	M.S.G.College Malegaon -Camp	Conference	06-07 Feb.2015	National
13	"Women Empowerment"	S.P.H.MahilaMahavidyalaya, Malegaon camp	Conference	23-24 Oct. 2013	National

14	Advanced Analytical Techniques in Chemistry & Pharmacy	M.S.G.College, Malegaon-camp	Conference	8-9 Oct. 2013	National
15	Recent Developments in Mathematics & Statistics	T. C.College, Baramati	Conference	14 -16 Feb. 2013	National
16	Advances in Nano-structured Materials & their Applications	Arts, Comm. & Sci. College, Taloda. Nandurbar	Seminar	22-23 Jan. 2013	National
17	Interdisciplinary Seminar on Recent Advances in Biodiversity	S.P.H.MahilaMahavidyalaya, Malegaon camp	Seminar	10-11 Feb. 2012	State
18	Interdisciplinary Applications of Nanotechnology	S.P.H.MahilaMahavidyalaya Malegaon-Camp	Seminar	24-25 Feb. 2011	State
19	Biodiversity & Pollution Control	Arts, Sci. & Comm. College, Nampur	Seminar	3-4 Feb. 2011	State
20	Preparation of Nonmaterial's & Their Applications	Arts,Comm. & Sci. College, Nandgaon	Seminar	20-22 Feb. 2010	National
21	Environmental Crisis	S.P.H.Mahila,Mahavidyalaya, Malegaon-Camp	Seminar	30 Jan. 2009	State
22	Advanced Trends in Chemistry	M.S.G. College, Malegaon-Camp,	Seminar	22-23 Sept. 2008	State
23	One Day Workshop in Chemistry for Post –Graduate Teachers	M.S.G. College, Malegaon- Camp	Workshop	19 Dec. 2006	State

Experience as resource person: 01

Sr.	Title of Conference/Seminar/	Name of the Organization/Institute/	Date
No.	Symposium/Workshop	College/University	
1	Ph.D. Course work	M.S.G. College ,Malegaon camp	12 -26 May 2019

E-content Developed: Only PPT link.

1. https://drive.google.com/file/d/1VqTRjAfkEoN1doT cp26E5tpWSoe0ld7/view?usp=sharing

2.https://drive.google.com/file/d/1FQfGtj66fdAmvdUnjD6 1 yGTFsbaXqL/view?usp=sharing

 $3. \underline{https://drive.google.com/file/d/1Mk7FDI4AZHIQcgaEBuNSDJRoMMgqMaCk/view?usp=sharing}$

4.https://drive.google.com/file/d/1 ijBSZraUcdhiozJ0cjuFNdNafXM8bAF/view?usp=sharing

 $5. \underline{\text{https://drive.google.com/file/d/1KfAxzdJKAw4KCB}} \ \ \underline{\text{A2kxpaxRvHkJy6ME5/view?usp=sharing}}$

6. https://drive.google.com/file/d/1BFnYKfNjyEJyxnFl5pNUj4tBh83idJ4p/view?usp=sharing

YouTube link: 1. https://youtu.be/430w4klwKtg

2. https://youtu.be/KGMGIGRbWR4