

## RESUME

- 01) **Name** : **Dr. Anjali S. Rajbhoj**
- 02) **Designation** : **Senior Professor**
- 03) **Pay Scale** : **AL-15, basic Pay-224100, Scale-182200 – 224100**
- 04) **Department** : Department of Chemistry,  
Dr. Babasaheb Ambedkar Marathwada  
University, Chhatrapati Sambhajinagar 431004  
(M.S.)
- 05) **Specialization** : Physical Chemistry
- 06) **Date of Birth** : 04<sup>th</sup> Nov, 1969
- 07) **Mailing Address** : “Samyak” 188(B), Nandanvan Colony, Chh. Sambhajinagar-431002.
- 08) **Contact No.** : **Office** - 0240-2403311 **Residence**-0240-2952720  
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- 10) **Academic Qualification:** M.Sc., Ph.D.



Examination/Degree	Board /University	Name of Institute	Subjects/Specialization	Year of Passing	Division /CGPA	Percentage of Marks
S.S.C.	M.S.B.S.H.S . Education, Pune	Holy Cross English High School, Chhatrapati Sambhajinagar	English, Hindi, Marathi, Science, Mathematics, Social Science.	March 1984	I <sup>st</sup>	73.71
H.S.C.	M.S.B.S.H.S . Education, Pune	Deogiri College, Chhatrapati Sambhajinagar	English, Physics, Chemistry, Biology	March 1986	I <sup>st</sup>	60.17
B.Sc.	Dr. B.A.M.U., Chhatrapati Sambhajinagar	Deogiri College, Chhatrapati Sambhajinagar	Chemistry, Physics, Mathematics	March/April 1989	I <sup>st</sup>	61.20
M.Sc.	Dr. B.A.M.U., Chhatrapati Sambhajinagar	Department of Chemistry, Dr. B. A.M. U., Chhatrapati Sambhajinagar	Physical Chemistry	March/April 1991	Merit First	72.50

Ph.D.	Dr. B.A.M.U., Chhatrapati Sambhajanagar	Department of Chemistry, Dr. B. A.M. U., Chhatrapati Sambhajanagar	“Studies in adsorption, diffusion, coordination behavior, ultrasonic velocities and some other related physical properties of toxic metalions”	Sept 2004	Awarded	-
MS-CIT.	M.S.B.T. Education, Mumbai	MKCL	Information Technology	July 2005	I <sup>st</sup>	86.00

## 11) Experience:

### i) Teaching Experience: 33 Years

Name of Institute	Post Held	Period		Total Experience
		From	To	
MSP Mandal's, Balbhim College, Beed & its other Colleges	Lecturer	21.08.1991	24.06.2004	13Years
Shri. Shivaji College, Parbhani	Lecturer	25.06.2004	01.12.2004	6 Months
R. B. Attal College, Georai	Reader	02.12.2004	03.09.2005	10 Months
Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Chh. Sambhajanagar	Associate Professor	04.08.2005	28.02.2011	06 Years
Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Chh. Sambhajanagar	Professor	01.03.2011	21.03.2022	11Years
Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Chh. Sambhajanagar	Head	01.07.2014	10.07.2017	3 Years
Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Chh. Sambhajanagar	Senior Professor	21.03.2022	Onwords	

### ii) Research Experience: 25 Years

Sr. No.		All	Since 2019
i)	Citation	871	635
ii)	H-index	13	11
iii)	i10 - index	20	13

## 12) Administrative Experience: 06 Years

- i) **Head**, Department of Chemistry, Dr. B.A.M.U., Chh. Sambhajanagar 10/07/2014 to 09/07/2017
- ii) **Chairperson**, Internal Complaint Committee, Dr. B. A. M. U., C.S. nagar since 04.06.202

**13) Paper Presented/Attended in Conference, Symposia, Seminar and Workshops, etc.:72**

<b>Sr. No.</b>	<b>Name of the Seminar, Conference, Symposia, Workshops etc.</b>	<b>Name of Organizing Agency</b>	<b>Date</b>
01	A Seminar on Chemistry	Indian Society of Analytical Scientists XIV ISAS National Symposium.	10 <sup>th</sup> Oct1999
02	A Seminar on Disaster Management and Safety Awareness in Chemistry Laboratory	Department of Chemistry, Dr. B.A.M.U. Chhatrapati Sambhajinagar.	10 <sup>th</sup> Jan 2002
03	Quality of Higher Education: A Need of the Hour	Balbhim College Beed.	15-16 <sup>th</sup> Feb 2003
04	Regional Mahila Probodhini Shibir.	Dr. B.A.M.U. Aurangabad and Balbhim College Beed.	26-27 <sup>th</sup> March 2002
05	Seminar on Study of Intellectual Property Right.	Ministry of Human Resource Development, Dept. of Education, Govt. of India and Balbhim College Beed.	17 <sup>th</sup> March 2003
06	Regional Mahila Probodhini Shibir.	Dr. B.A.M.U. Chh. Sambhajinagar and Balbhim College Beed.	27, 28 <sup>th</sup> Feb 2003
07	State Level Seminar on Effect of Different Chemical Reactions and Chemical processes on the Imbalance of Environment.	UGC and Deogiri College, Chhatrapati Sambhajinagar.	24 <sup>th</sup> Jan 2004
08	Symposium on “Coordination Chemistry”	K. S. K. College, Beed.	4-5 <sup>th</sup> Dec 2004
09	National Seminar on Kinetic Studies of Chemical and Bio-chemical Transformations.	Dept. of Chemistry, Dr. B. A. M. U. Chhatrapati Sambhajinagar.	26-27 <sup>th</sup> Feb 2005
10	The Role of Internal Quality Assurance Cell as Quality Sustenance Measure	M.S.P. Mandal’s R.B. Attal Arts, Science and Commerce College Georai, Dist. Beed	15-16 <sup>th</sup> Jan 2005
11	Second National Conference on Thermodynamics o f Chemical and Biological Systems.	Veer Narmada South Gujrat University, Surat.	30 <sup>th</sup> Oct- 1 <sup>st</sup> Nov 2006
12	Annual Convention of Chemists	Dept. of Chemistry, Dr. B. A. M. U. Chhatrapati Sambhajinagar.	23-27 <sup>th</sup> Dec 2006
13	One-Day Workshop on “High Performance Liquid Chromatography”.	Dr. B.A.M.U. Dept. of Chemical Technology Chhatrapati Sambhajinagar.	07 Jan 2007
14	International Conference on Advances in Drug Discovery Research	Indian Society of Chemists and Biologists, CDRI, Lucknow and Department of Chemistry, Dr. B. A. M. U. Chhatrapati Sambhajinagar.	24-26 <sup>th</sup> Feb 2007
15	Annual Convention of Chemists	Mahatma Gandhi Institute of applied Sciences, Jaipur.	23-27 <sup>th</sup> Dec 2007
16	Recent Advances in Chemical kinetics, Coordination and nanochemistry (RACKCNC-09)	Rajarshi Shahu Mahavidyalaya, Latur	23-24 <sup>th</sup> Jan 2009

17	Biocatalysis and Biomimetic Catalysis in Organic Synthesis	Department of Chemistry, Dr. B. A. M. U. Chhatrapati Sambhajinagar.	20,21 <sup>st</sup> March 2009
18	State Level Disaster Relief Training Camp – (Avhan-2009) Appreciation Certificate.	Chancellor office and Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.	9-20 <sup>th</sup> June 2009
19	Eleventh National Conference of Indian Association for Science Fiction Studies (IASFS) on “Science Fiction in Indian Literature”.	IASFS, Vellore, S.B.E.S. College of Science and Vigyan Prasara, New Delhi	14-15 <sup>th</sup> Nov 2009
20	Science Academies Lecture Workshop on “Probing Electronic States in Molecules and Molecular Materials”.	Indian Institute of Science Bangalore & Dept. of Chemistry Dr. B.A.M.U., Chhatrapati Sambhajinagar.	21-25 <sup>th</sup> Jan 2010
21	47 <sup>th</sup> Annual convention of chemists 2010 and International conference on recent advances in chemical Sciences, Indian Chemical Society.	Indian Chemical Society, Pt. Ravishankar Shukla University Raipur, Chhattisgarh.	23-27 <sup>th</sup> Dec 2010
22	Advances in Material Chemistry.	Dept. of Chemistry, Dr. B. A. M. University, Chhatrapati Sambhajinagar.	28-29 <sup>th</sup> Jan 2011
23	Workshop on Soft Skills Development	Academic Staff College, Dr. B. A. M. University, Chhatrapati Sambhajinagar.	23 <sup>rd</sup> Nov 2011
24	Copper oxide nanoparticle an efficient antimicrobial agent	48 <sup>th</sup> Annual convention of chemists 2011. Indian Chemical Society, Kolkata and Dept. of Chemistry, Allahabad University, Allahabad	3-7 <sup>th</sup> Dec 2011
25	Copper- Silver Bimetallic, Antibacterial activity nanoparticle.	49 <sup>th</sup> Annual Convention of Chemists 2012 Indian Chemical Society, Kolkata and NITTTR, Bhopal.	12-15 <sup>th</sup> Dec 2012
26	“Titanium Oxide Nanoparticles Reusable catalyst”	100 <sup>th</sup> Indian Science Congress Association (ISCA) University of Kolkata, Kolkata.	3-7 <sup>th</sup> Jan 2013
27	“Molybdenum Oxide Nanoparticles Antimicrobial activity”	100 <sup>th</sup> Indian Science Congress Association (ISCA) University of Kolkata, Kolkata.	3-7 <sup>th</sup> Jan 2013
28	National Conference on Pharmaceutical Analysis	Department of Chemical Technology, Dr. B. A. M. U., Chhatrapati Sambhajinagar.	
29	“Nickel Nanoparticles as ...quinazolines”	50 <sup>th</sup> Annual Convention of Chemists 2013, Chandigarh Indian Chemical Society & Punjab University Chandigarh, Chandigarh.	04-07 <sup>th</sup> Dec 2013
30	Potentiometric study of Mixed ligand amino acid,	50 <sup>th</sup> Annual Convention of Chemists 2013, Chandigarh Indian Chemical Society & Punjab University Chandigarh, Chandigarh.	04-07 <sup>th</sup> Dec 2013
31	Effect of temperature on vitamin K <sub>3</sub> ...	50 <sup>th</sup> Annual Convention of Chemists 2013. Chandigarh Indian Chemical Society & Punjab University Chandigarh	04-07 <sup>th</sup> Dec 2013
32	Workshop on Awareness of Antiplagiarism Software	Knowledge Resource Centre, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.	12 <sup>th</sup> Dec 2013
33	“Titanium Nanoparticles- .....catalysts”	National Conference on recent trends in chemistry education, Sir Sayyad College, Chhatrapati Sambhajinagar.	13-14 <sup>th</sup> Dec 2013

34	“Synthesis and Characterization of conducting polymer PPy-MoO <sub>3</sub> nanocomposites”	International Conference on GOLD-CT-2014 Jalgaon North Maharashtra University, Jalgaon	6-8 <sup>th</sup> Feb 2014
35	Science academics Lecture workshop on Fundamental Concepts in Chemical Sciences	Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.	March 21-24 <sup>th</sup> 2014
36	Training Program on Awareness of Scifinder Database	Knowledge Resource Centre, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.	22 <sup>nd</sup> July 2014
37	“Green synthesis of Ce nanoparticles”,	51 <sup>th</sup> Annual Convention of Chemists 2014 Kuruskhetra Indian Chemical Society & University of Kuruskhetra, Kuruskhetra	09-12 <sup>th</sup> Dec 2014
38	“Electrochemical Synthesis of ...nanoparticles”	51 <sup>th</sup> Annual Convention of Chemists 2014 Kuruskhetra Indian chemical Society & University of Kuruskhetra, Kuruskhetra	09-12 <sup>th</sup> Dec 2014
39	“Synthesis, Characterization, antibacterial and antifungal studies”	Pre Science Congress-2014 Indian Science Congress, Chhatrapati Sambhajinagar.	30-31 <sup>st</sup> Dec 2014
40	Potentiometric study of vitamin C”	Pre Science Congress Chhatrapati Sambhajinagar, Chapter in Indian Science Congress – 2014	30-31 <sup>st</sup> Dec 2014
41	Role of Nanomaterials for various Applications in Chemistry: An eco friendly approach	School of Studies in Chemistry, Jiwaji University, Gwalior	6-8 <sup>th</sup> April 2015
42	University- Industry Interaction Summit 2015	Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.	29-30 <sup>th</sup> Oct 2015
43	Scientific writing & Publishing Scholarly Articles	Knowledge Resource Centre, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.	04 <sup>th</sup> Nov 2015
44	Third National Workshop On materials Chemistry- NWMC- 2015 (Optical Materials)	Chemistry Div. Bhabha Atomic Research Centre, Mumbai & Society For Materials Chemistry, Mumbai	20-21 <sup>st</sup> Nov 2015
45	Synthesis of novel squaraine dye efficiency of dye-sensitized solar cell...	52 <sup>nd</sup> Annual Convention of Chemists 2014 Indian Chemical Society & JECRC University, Jaipur	28-30 <sup>th</sup> Dec 2015
46	PPy-WO <sub>3</sub> -nanocomposites for electrochemical ascorbic acid sensor	52 <sup>nd</sup> Annual Convention of Chemists 2014 Indian Chemical Society & JECRC University, Jaipur	28-30 <sup>th</sup> Dec 2015
47	Recent Trends and Advances in Chemical Sciences	Godavari Shikshan Prasark Mandal's, B. Raghunath Arts, Commerce and Science College, Parbhani	12 <sup>th</sup> Jan, 2016

48	Nanotechnology	Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar.	27 <sup>th</sup> May 2016
49	Vibrational Spectroscopy	Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar.	08 <sup>th</sup> June 2016
50	One day Workshop on“ Intellectual Property Rights”	RUSA, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar.	22 <sup>nd</sup> Aug 2016
51	Workshop on Right to Information Act 2005	Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar.	27 <sup>th</sup> Sept 2016
52	“Polypyrrole-WO <sub>3</sub> Nanocomposites Modified Gold Electrode as Electrochemical Ascorbic Acid Sensor”	6 <sup>th</sup> International Science congress, ISCA, Hutatma Rajguru Mahavidyalay, Rajgurunagar, Pune	8-9 <sup>th</sup> Dec 2016
53	“Synthesis, characterization and antimicrobial screening of $\beta$ -diketone and its Mn (II), Fe (III), Co (II), Ni (II) and Cu (II) complexes”	6 <sup>th</sup> International Science Congress, ISCA, Hutatma Rajguru Mahavidyalay, Rajgurunagar, Pune	8-9 <sup>th</sup> Dec 2016
54	“Synthesis, Spectral Characterization, Antimicrobial and Antioxidants Screening of Biologicallyactive1, 3-diones with their Metal (II) Complexes”.	6 <sup>th</sup> International Science Congress, ISCA, Hutatma Rajguru Mahavidyalay, Rajgurunagar, Pune	8-9 <sup>th</sup> Dec 2016
55	Electrochemical Synthesis and Characterization of $\gamma$ -Alumina Nanoparticles”,	6th International Science Congress, ISCA, Hutatma Rajguru Mahavidyalay, Rajgurunagar, Pune	8-9 <sup>th</sup> Dec 2016
56	Training Program on Awareness of SCOPUS and Indian Citation Index	KRC, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar.	22 <sup>nd</sup> Dec 2016
57	Advanced Trends in Green Chemistry	Mula Education Society's Shri. Dnyaneshwar Mahavidyalaya, Newasa, Ahmednagar.	16-17 <sup>th</sup> Jan 2017
58	Chemistry Research with Responsibilities	Maulana Azad College of Arts, Science & Commerce, Chhatrapati Sambhajanagar.	30-31 <sup>st</sup> Jan 2017
59	Recent Trends in Chemistry	Yashwantrao Chavan College of Arts, Commerce and Science, Sillod, Chhatrapati Sambhajanagar.	06 <sup>th</sup> Feb 2017

60	New Emerging Trends in Environment to Control and Prevent Pollution	Pratisthan Mahavidyalaya, Paithan	24-24 <sup>th</sup> March 2017
61	International Conference on advances in Functional Materials	Department of Physics, Electronic Science and Chemistry, Savitribai Phule Pune University, Pune	12-13 <sup>th</sup> Jan 2018
62	Industrial and Applied Chemistry	Indian Chemical Society, Kolkatta 2018	28-30 <sup>th</sup> Dec 2018
63	Exploring new horizons in chemical sciences	Deogiri College, Chhatrapati Sambhajnagar.	10-12 <sup>th</sup> Jan 2019
64	Academic and Administrative Audit-Tool for Quality Higher Education	Arts, Science & Commerce College, Rahata, Ahmednagar	21-22 <sup>nd</sup> Jan 2019
65	Centre for materials for Electronics Technology (C-MET), Pune & University of Leeds, UK	Q- Dot and nanostructured Materials, Characterizations, Processing and Device Fabrication (Q-DOT-NMAT 2019)	20-21 <sup>st</sup> Feb 2019
66	Application of Green Catalysts and Green Solvents for Sustainable Industrial Development	Department of Chemistry, Dada Patil Mahavidhyalaya, Karjat, Dist- Ahmednagar.	24 <sup>th</sup> Jan 2020
67	Green Technology for Sustainable Development	Arts, Science and Commerce College, Kolhar, Tal:Rahata Dist:Ahemadnagar.	14-15 <sup>th</sup> Feb 2020
68	Recent Advances in Chemical Sciences	Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University Aurangabad, Sub-Campus Osmanabad.	24 <sup>th</sup> Feb 2020
69	Post Covid Challenges and Opportunity in Higher Education in Chemistry	Smt. S. K. Gandhi Arts, Amolak Science and P. H. Gandhi Commerce College, Kada, Beed.	03 <sup>rd</sup> June 2020
70	Post COVID-19 : Science and Technology	S. R. M. University, Andhra Pradesh	29 <sup>th</sup> May 2020
71	Philosophy of Ultimate Success in Science Life	S. R. M. University, Andhra Pradesh	28 <sup>th</sup> Nov 2020
72	Innovation Research in Science and Technology	Kalikadevi Arts, Commerce and Science College, Shirur	25 <sup>th</sup> July 2022

**14) Invited Speaker/Resource Person in the National Conference/Seminar/Workshop/Refresher Course/Orientation Course etc.: 46**

<b>Sr. No.</b>	<b>Title of Lectures delivered</b>	<b>Title of conference/ Seminar/workshop/ Refresher</b>	<b>Organized by</b>	<b>Date</b>
01	Fundamental of Thermodynamics	Refresher Course in chemistry/Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Chhatrapati Sambhajanagar.	17 <sup>th</sup> Nov 2010
02	Fundamental of Coordination Chemistry	Refresher Course in chemistry /Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Chhatrapati Sambhajanagar.	17 <sup>th</sup> Dec 2010
03	Fundamental of Thermodynamics	Refresher Course in chemistry /Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Chhatrapati Sambhajanagar.	11 <sup>th</sup> Nov 2011
04	Basics of Thermodynamics	Refresher Course in chemistry/Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Chhatrapati Sambhajanagar.	23 <sup>rd</sup> Nov 2011
05	Applications of Spectroscopy	Refresher Course in chemistry/Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Chhatrapati Sambhajanagar.	07 <sup>th</sup> Dec 2011
06	Introduction to Nanotechnology	Refresher Course in chemistry /Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Chhatrapati Sambhajanagar.	28 <sup>th</sup> March 2012
07	Applications of spectroscopy	Refresher Course in chemistry/Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Chhatrapati Sambhajanagar.	23 <sup>rd</sup> July 2012
08	Applications of coordination Chemistry	Refresher Course in chemistry /Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Chhatrapati Sambhajanagar.	22 <sup>nd</sup> Aug 2012
09	Vibrational Spectroscopy	Refresher Course in chemistry /Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Chhatrapati Sambhajanagar.	27 <sup>th</sup> Aug 2012
10	Nanotechnology and its Applications in Catalysis	Refresher Course in chemistry /Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Chhatrapati Sambhajanagar.	05 <sup>th</sup> July 2013
11	Fundamental of Polymer Chemistry	Refresher Course in chemistry /Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Chhatrapati Sambhajanagar.	19 <sup>th</sup> July 2013
12	Introduction to Conducting Polymers	Refresher Course in chemistry /Chem. Tech/ Pharmacy	UGC-Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar.	06 <sup>th</sup> June 2014
13	Fundamentals of Thermodynamics	Refresher Course in Chemistry /Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Chhatrapati Sambhajanagar.	11 <sup>th</sup> June 2014
14	Vibrational Spectroscopy	Refresher Course in chemistry /Chem. Tech/Pharmacy”	UGC-Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, C.S.nagar	14 <sup>th</sup> Nov 2014



15	Applications of Nanomaterials in Catalysis	Refresher Course in chemistry /Chem. Tech/ Pharmacy	UGC-Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.	06 <sup>th</sup> June 2014
16	Coordination Chemistry	Refresher Course in chemistry /Chem. Tech/ Pharmacy	UGC-Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.	11 <sup>th</sup> June 2014
17	Applications of Spectroscopy	Special Winter School Programme	UGC-Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.	14 <sup>th</sup> Nov 2014
18	Applications of Nanotechnology	Special summer school Programme on “Nano Chemistry”	UGC-Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.	12 <sup>th</sup> June 2014
19	Journal of Medicinal Chemistry and drug Discovery	Analytical Chemistry Teachers and Researchers Association	Journal of Medicinal Chemistry and Drug Discovery, Chhatrapati Sambhajinagar.	18 <sup>th</sup> Jan 2015
20	Nanotechnology and its Applications	National seminar on Role of chemical sciences in overall development of human being	Adarsh Mahavidyalaya, Omerga Dist. Osmanabad.	24 <sup>th</sup> Jan 2015
21	Spectroscopy	Refresher Course in chemistry/ Chem. Tech/ Pharmacy,	Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.	15 <sup>th</sup> June 2015
22	Applications of Conducting Polymers	Refresher Course in chemistry/ Chem. Tech/ Pharmacy	UGC-Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.	27 <sup>th</sup> June 2015
23	Fundamental Thermodynamics	Refresher Course in chemistry/ Chem. Tech/ Pharmacy	UGC-Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.	15 <sup>th</sup> June 2015
24	Applications of Nanomaterials	Refresher Course in chemistry/ Chem. Tech/ Pharmacy,	UGC- Human Resource Development Centre Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.	27 <sup>th</sup> June 2015
25	Applications of I.R. Spectroscopy	M.Sc. Course	Milind College of Science, Chhatrapati Sambhajinagar.	21 <sup>st</sup> Jan 2016
26	National Seminar	Analytical Chemistry Teachers and Researchers Association	Rajkunwar Mahavidyalaya, Dhawada, Tq. Bhokardan, Dist. Jalna	28 <sup>th</sup> Feb 2016

27	Fundamental of Chemistry	Refresher course in Basic Science	UGC- Human Resource Development Centre Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajnagar.	20 <sup>th</sup> Sept 2016
28	Recent Innovation in Nanomaterial and Technology	National Conference	Rajarshi Shahu Arts, Commerce and Science College, Pathri, Chhatrapati Sambhajnagar.	03 <sup>rd</sup> Jan 2017
29	Advanced Trends in Green Chemistry	National seminar	Mula education society's Shri Dnyaneshwar Mahavidyalaya, Ahmednagar	17 <sup>th</sup> Jan 2017
30	Recent trends in Chemistry	State level Seminar	Yeshwantrao Chavan College of Arts, Commerce and Science	06 <sup>th</sup> Feb 2017
31	New Emerging Trends in Environment to Control and Prevent Pollution	National conference	Pratisthan Mahavidyalaya, Paithan	25 <sup>th</sup> March 2017
32	Interdisciplinary National Conference on Bioinspired Materials in Science	National Conference	New Arts, Commerce and Science College, Ahmednagar	20 <sup>th</sup> Jan 2018
33	Recent Advances in Chemical and Biochemical Sciences (RACBS-2018)	National Conference	Savitribai Phule Pune University, Pune	17 <sup>th</sup> Feb 2018
34	Nanotechnology and its Applications	National Conference on Recent Trends in Environmental Science	Adv. Manoharrao Nanasaheb Deshmukh Arts, Science & Commerce College, Rajur, Ahmednagar	19 <sup>th</sup> Jan 2019
35	Inaugural lecture	ACT-CONTECH-20	Department of Chemistry, Dr. Rafiq Zakaria College for Women, Aurangabad	31 <sup>st</sup> Jan 2020
36	Recent Trends in Physics, Chemistry and Mathematics (RTPCM-2020)	National Conference	Sundarrao Solanke Mahavidyalaya, Majalgaon, Dist. Beed	04 <sup>th</sup> Feb 2020
37	Recent Advances in Chemical Sciences (RACS-2020)	National Conference	Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University Sub-Campus, Osmanabad	24 <sup>th</sup> Feb 2020
38	Recent Trends in Chemistry Education and Research	Refresher Course in Chemistry	Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajnagar.	4 <sup>th</sup> Dec 2020
39	One Day International E-Conference on Innovative Research in Science and Technology (ICIRST-2021)	International E-Conference	Adarsh Shikshan Sansthan's Kalikadevi Arts, Commerce and Science College, Shirur (Ka.) Tq. Shirur (Ka.) Dist. Beed	25 <sup>th</sup> July 2021

40	Online refresher course in Disaster Management	Refresher Course in Chemistry	Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Chh. Sambhajanagar.	23 <sup>rd</sup> Aug 2021
41	Online refresher course in Disaster Management	Refresher Course in Chemistry	UGC- Human Resource Development Centre Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar.	01 <sup>st</sup> July 2022
42	Polymer Chemistry	Refresher Course in Chemistry	UGC- Human Resource Development Centre, Sant Gadagebaba Amravati University, Amravati	12 <sup>th</sup> Oct 2022
43	Workshop on Choice Based Credit System Curriculum in the subject of Chemistry & Analytical Chemistry	Workshop on National Education Policy	Dr. Rafiq Zakaria College for Women, Chhatrapati Sambhajanagar	27 <sup>th</sup> July 2023
44	Online Refresher Course in Chemistry	Refresher Course in Chemistry	UGC- Human Resource Development Centre Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar.	19 <sup>th</sup> July 2023
45	Online Refresher Course – IKS-Based Chemistry and Metallurgy	Refresher Course in Chemistry	UGC-Malaviya Mission Teacher Training Centre, Sant Gadge Baba Amravati University, Amravati	16 <sup>th</sup> Jan 2024
46	Online Refresher Course in Nanotechnology and Catalysis	Refresher Course in Chemistry	UGC-Malaviya Mission Teacher Training Centre, Sant Gadge Baba Amravati University, Amravati	08 <sup>th</sup> June 2024

15) **Invited Chair Person in the National Conference/Seminar/Workshop etc: 22**

Sr. No.	Title of conference/Seminar/workshop/Refresher	Organized by	Date
01	Recent Advances in Chemical kinetics, Coordination and Nanochemistry (RACKCNC-09)	Rajarshi Shahu Mahavidyalaya, Latur	23-24 <sup>th</sup> Jan 2009
02	Biocatalysis and Biomimetic Catalysis in Organic Synthesis	Department of Chemistry, Dr. B. A. M. U. Chhatrapati Sambhajanagar.	20,21 <sup>st</sup> March 2009
03	Science Academies Lecture Workshop on “Probing Electronic States in Molecules and Molecular Materials”.	Indian Institute of Science Bangalore & Dept. of Chemistry Dr. B. A.M. U. Chhatrapati Sambhajanagar.	21-25 <sup>th</sup> Jan 2010
04	Refresher Course in chemistry /Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Chhatrapati Sambhajanagar.	17 <sup>th</sup> Nov 2010
05	Refresher Course in chemistry /Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Chhatrapati Sambhajanagar.	23 <sup>rd</sup> Nov 2011
06	Refresher Course in chemistry /Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Chhatrapati Sambhajanagar.	28 <sup>th</sup> March 2012

07	Refresher Course in chemistry /Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Aurangabad,	27 <sup>th</sup> Aug 2012
08	Refresher Course in chemistry /Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Chhatrapati Sambhajinagar.	19 <sup>th</sup> July 2013
09	National conference	Department of Chemical Technology, Dr. B. A. M. U., Chhatrapati Sambhajinagar.	19 <sup>th</sup> Oct 2013
10	National conference	Sir Sayyed College of Arts, Commerce And Science, Chhatrapati Sambhajinagar.	13-14 <sup>th</sup> Dec 2013
11	Science academies Lecture workshop on Fundamental Concepts in Chemical Sciences	Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar.	21-24 <sup>th</sup> March 2014
12	Refresher Course in chemistry /Chem. Tech/ Pharmacy	UGC, Academic Staff College, Dr. B. A. M. U., Chhatrapati Sambhajinagar.	11 <sup>th</sup> June 2014
13	Pre-Science Congress-2014	ISCA-Aurangabad, Dr. Babasaheb Ambedkar Marathwada University Chhatrapati Sambhajinagar.	30-31 <sup>st</sup> Dec 2014
14	Special summer school Programme on “Nano Chemistry”	UGC-Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Chh. Sambhajinagar.	12 <sup>th</sup> June 2014
15	Refresher Course in chemistry/Chem. Tech/Pharmacy	UGC-Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Chh. Sambhajinagar.	27 <sup>th</sup> June 2015
16	Dr. Ahamed Zaheer Lecture series	Dr. Rafiq Zakaria College for Women	11 <sup>th</sup> Dec 2016
17	New Emerging Trends in Environment to Control and Prevent Pollution	Pratisthan Mahavidyalaya, Paithan	24 <sup>th</sup> March 2017
18	National Conference	Dr. Rafiq Zakaria Campus-I	31 <sup>st</sup> Jan 2017
19	National conference	Adv. M. N. Deshmukh Arts, Science and Commerce College, Rajur	12 <sup>th</sup> Jan 2018
20	District level	Nath Valley school, Paithan Road, Chhatrapati Sambhajinagar.	24 <sup>th</sup> Aug 2018
21	Exploring new horizons in Chemical sciences	Deogiri college, Chhatrapati Sambhajinagar.	12 <sup>th</sup> Jan 2019
22	Application of Green Catalysts and Green Solvents for Sustainable Industrial Development	Department of Chemistry, Dada Patil Mahavidhyalaya, Karjat, Dist-Ahmednagar.	24 <sup>th</sup> Jan 2020

#### 16) Research Publications in Peer-reviewed/Referred International Research Journals: 95

Sr. No.	Title of the Publication	Name of the National/International Journal	Month and Year of Publication
01	Removal of toxic metals from aqueous solutions by Chemically treated Tur Pods and Banyan Leaves.	Asian Journal of Chemistry	2005
02	Stability constants of ternary complexes of drugs And amino acids	Int. J. Chem. Sci.	2005

03	“A quantitative equilibrium studies on mixed ligand complexes of cadmium with nitrogen, oxygen and Sulphar containing drugs and amino acids”	Journal of Indian Chemical Society	2007
04	“Copper oxide nanoparticles: synthesis, characterization And their antibacterial activity”	Journal of Cluster Science	2011
05	Copper oxide nanoparticles: Highly efficient heterogeneous catalyst for the synthesis of 3,4-dihydropyrimidin-2[1 <i>H</i> ] –ones	Organic Chemistry: An Indian Journal	2011
06	Synthesis, Characterization and Study of Some of the Properties of Zn <sub>1-x</sub> Hg <sub>x</sub> Te(X=0to1) thin Films.	Scholars Research Library Archives of Applied Science Research	2011
07	Photo-electrochemical properties of Zn <sub>1-x</sub> Hg <sub>x</sub> Te thin films	Research Library Archives of Applied Science Research	2012
08	Potentiometric study of menadione complexes with transition metals in DMSO- water and DMF-water medium	Journal of Chemical, Biological and Physical Sciences	2012
09	Potentiometric study of vitamin E and vitamin D complexes with transition metals in acetonitrile-water medium	Pelagia Research Library-Der Chemica Sinica Journal.	2012
10	Potentiometric study of Vitamin C complexes with Transition metal ions Co (II), Ni (II), Cu (II) & Zn (II)	Pelagia Research Library-Der Chemica Sinica,	2012
11	Potentiometric study of vitamin K3 complexes with transition metals in methanol-water and Acetonitrile-Water medium	International Journal of Chem. Tech Research,	2012
12	Potentiometric study of vitamin C (Ascorbic acid) with transition metals in MeOH-water and EtOH-Water medium	Asian journal of Research in Chemistry	2012
13	Efficient Ultrasound synthesis of β-diketone and its metal complexes	Der Pharma Chemica,	2012
14	Study of mixed ligand complexes of copper (II)with Enalapril maleate as primary ligand and some peptides as secondary ligand	Pelagia Research Library Der Chemica Sinica Journal	2012
15	Efficient ultrasound synthesis, characterization and Antimicrobial screening of novel cyclic β-diketone.	Chemical Science Transaction.	2013
16	Ultrasound synthesis and antimicrobial screening of metal complexes of 1(5 chloro-2hydroxy phenyl)-3-(2,4-Dichlorophenyl propane-1-3-Dione.).	International Journal of recent Technology and Engineering	2013
17	A study on ternary complexes involving drugs and Amino acids of cadmium metal.	Pelagia Research Library Der Chemica Sinica Journal	2013
18	Potentiometric studies on mixed ligand complex formation copper (II) complexes with enalapril maleate and some amino acids	Pelagia Research Library-Der Chemica Sinica	2013
19	Ultrasound Synthesis, Characterization and Thermal Study of Some Transition Metal Complexes of B – Diketone Ligand	International Journal of Recent Technology and Engineering	2013

20	Nanosized TiO <sub>2</sub> as a Recyclable Heterogeneous Catalyst for the Synthesis of Tetrahydrobenzo [b] pyran Derivatives	Journal of cluster science	2014
21	Nanocrystalline titanium dioxide catalyst for the Synthesis of azlactones	Chinese Journal of catalysis	2014
22	Microwave-Assisted One-Pot Synthesis of Octahydro quinazolinone Derivatives Using Molybdenum Oxide Nanoparticles in Solvent-Free Condition	Journal of Cluster Science	2014
23	Preparation, Characterization and Catalytic Application of a Nanocrystalline titanium dioxide Heterogeneous Catalyst for the Erlenmeyer Synthesis of Azlactones.	Chinese Journal of Catalysis	2014
24	Solvent free green Synthesis of 5-arylidine Barbituric acid Derivatives Catalyzed by Copper oxide Nanoparticles	Research Journal of Chemical Science	2014
25	Electrochemical Synthesis of MoO <sub>3</sub> Nanoparticles Effect of Temperature Convert to MoO <sub>3</sub> Nanorods	International Journal of Engineering Research & Applications,	2014
26	Efficient Ultrasound Synthesis, Characterization and Biological Screening of Novel Cyclic $\beta$ -Diketones	Chemical Science Transactions	2014
27	Efficient Ultrasound Synthesis of 1-(2-Hydroxyphenyl)-3-P Tolypropene-1,3-Dione and its Transition Metal Complexes	International Journal of Chemical and Physical Sciences	2014
28	Synthesis of TiO <sub>2</sub> nanoparticles by Electrochemical method and their Antibacterial Application.	Arabian Journal of Chemistry	2014
29	Nanosized MoO <sub>3</sub> as a reusable heterogeneous catalyst for the synthesis of 2,6-bis (benzylidene) cyclohexanones	Materials Science-Poland	2015
30	Characterizations of nickel oxide nanoparticles via electrochemical reduction method	International Journal of Pharmaceuticals Research and development	2015
31	Synthesis, characterization and antimicrobial studies on some trivalent lanthanide metal complexes with a Bidentate O, N donor mixed ligands	International Journal of Science and Research	2015
32	Study On X-Ray diffraction and biological activity of Some Rear Earth Metal Complexes on the Basis of Mixed Ligands	Research Journal of Chemical Sciences	2015
33	Synthesis, characterization and Antimicrobial Activity of Fe (III), Zn (II), Co (II), Ni (II), Cu (II) and Mn (II) Complexes with Schiff base Mixed Ligands	International Journal of Science and Research	2015
34	Ultrasound irradiation assisted synthesis and antimicrobial screening of novel cyclic B-diketones and Its transition metal complexes	World Journal of Pharmaceutical Research	2015
35	Size determination of nickel oxide nanoparticles by Electrochemical reduction method and its antimicrobial activity.	World Journal of Pharmaceutical Research Volume	2015

36	X-Ray Diffraction Study and Biological Analysis of Transition Metal Complexes of N-4-Disubstituted Thiosemicarbazone,	Research Journal of Chemical Sciences	2015
37	Synthesis, characterization and biological studies of ondonorn-4-disubstituted thiosemicarbazone ligand and its Transition metal complexes	World Journal of Pharmaceutical Research	2015
38	Synthesis, characterization and antimicrobial activity of a bivalent Schiff base derived from salicylaldehyde and 4-methoxy aniline and Its lanthanides (III) complexes	Journal of Chemical and Pharmaceutical Research	2015
39	Synthesis, physicochemical properties and antimicrobial activity of a bivalent Schiff base derived from 5-bromo-salicylaldehyde and 4-methoxyphenylamine and its Lanthanide (iii) complexes	International Journal of Chemical Research	2015
40	Synthesis, characterization and antimicrobial studies of 1-(2,4-dichlorophenyl)-3-(2-hydroxyphenyl) propane-1,3-dione and its transition metal complexes	International Journal of chemical and Physical sciences	2015
41	Physico-chemical and biological analysis of N-4-Disubstituted thiosemicarbazone Ligand and its Transition Metal Complexes.	Research Journal of Chemical Sciences	2015
42	Study on X-ray Diffraction of some Mn (II), Fe (III), Co (II), Ni (II), Cu (II), Zn (II) complexes on the basis of mixed ligands	Research Journal of Chemical Sciences	2015
43	X-ray diffraction, spectral and biological studies of Cu (II), Co (II) and Zn (II) complexes of substituted thiosemicarbazones	Der Pharma Chemica	2016
44	Synthesis, spectral characterization and biological evaluation of 1-(2-hydroxyphenyl)-3-(4-t-butylphenyl) propane-1,3-dione as antioxidants agents	Der Pharma Chemia Letter	2016
45	Synthesis, spectral characterization and biological screening of potentially active 1,3 diones and its transition metal complexes	Chemical Science Transaction	2016
46	Polypyrrole-Pt nanocomposites as electrochemical Glucose sensor,	Advanced Material Letter	2016
47	Synthesis of conducting polymer Polypyrrole-MoO <sub>3</sub> nanocomposites	Moroccan Journal of Chemistry	2016
48	Efficient ultrasound synthesis, spectral studies of 1-(2-hydroxyphenyl)-3-4nitrophenyl) Poropane-1, 3-dione with metal complexes as antibacterial and antifungal agents	Research Journal of Chemical Sciences	2016
49	Copper Oxide Nanoparticles Synthesis by Electrochemical Method	Materials Science	2016
50	Green synthesis of 2-arylbenzothiazole heterogeneous catalyzed by MoO <sub>3</sub> nanorods.	Green Processing and Synthesis	2016

51	Synthesis, characterizations and comparative study of electro-optical properties of indole-based squaraine sensitizers as efficiency to enhancing dye-sensitized solar cells.	Advanced Material Letter	2016
52	Conventional and Ultrasonic synthesis of $\beta$ -diketone With Mn (II), Fe (II), Co (II), Ni (II), Cu (II) complexes and their antimicrobial screening	Der Pharma Chemica	2016
53	Polypyrrole-Pd nanocomposites modified gold electrode for electrochemical detection of ascorbic acid	Advanced Material Letter	2017
54	A Versatile Route for the Synthesis of Iron Oxide Nanostructures by Electrochemical Reduction Method and Their Antibacterial Application	Journal of Cluster Science	2017
55	Molybdenum Oxide Nanoparticles as Antimicrobial Agents	Journal of Cluster Science	2017
56	Nanosized Synthesis of Nickel Oxide by Electrochemical Reduction Method and their Antifungal Screening	Journal of Cluster Science	2017
57	Synthesis and studies on Mn II, Fe III, Co (II), Ni (II) and Cu (II) complexes of $\beta$ diketone	Asian journal of chemistry	2017
58	Synthesis and characterization of zinc oxide nanoparticles using green method.	Journal of Chemical Science	2017
59	Synthesis and electrochemical characterization of zinc oxide nanoparticles using green method.	International Journal of Applied Research	2017
60	Synthesis, spectral characterization and antimicrobial Activity of selected transition metal (II) complexes using salicylaldehyde with 4-methoxyaniline moiety	International Journal of Biological and Physical Sciences	2017
61	Nickel Nanoparticles Modified Gold Electrode as Electrochemical Dopamine Sensor	International Journal of Chemical and Physical Sciences	2018
62	Symmetrical and Unsymmetrical Squaraine Sensitizers for Dye Sensitized Solar Cells: Present Day Advances and Future Challenges	Advanced Material Letter	2018
63	Synthesis, Characterization and invitro Antibacterial Studies of 1, 3-Diones with their Metal Complexes bearing Potential O, Opharmacophores Sites	International Journal of Chemical and Physical Sciences	2018
64	Synthesis of Iron oxide Nanostructures by Electrochemical Reduction Method and Their Antifungal Application	International Journal of Chemical and Physical Sciences	2018
65	Synthesis, characterization and antimicrobial screening of 1,3-dione with their metal complexes	Asian journal of Chemistry	2018
66	Synthesis, characterization and antimicrobial studies of 1-(5-bromo-2-hydroxyphenyl)-3-(4-Bromophenyl)-propane-1,3-dione and their transition metal complexes	Rasayan Journal of Chemistry	2018



67	Synthesis, characterization and comparative study of electrooptical properties of Indole- based squaraine sensitizer as efficiency to enhancing dye-sensitized solar cells	Advanced Material Letters	2018
68	Comparison and determine characteristics potentials of HOMO/LUMO and relationship between $E_a$ and $I_p$ for Squarine dyes.	Moroccan Journal of Chemistry	2018
69	Nanosized copper oxide as a Reusable Heterogenous Catalyst for Knoevenagel Condensation	Journal of Chemistry and Chemical Sciences	2018
70	Synthesis, Spectral Characterization, Antimicrobial, Anti-inflammatry, antioxidant and cyclic voltametric studies of $\beta$ -diketone and its metal complexes.	Rasayan Journal of Chemistry	2019
71	The effect of Bis-carboxylic group of squarylium dyes on the efficiency of dye sensitized solar cells.	Journal of chemical paper	2019
72	Iodine and benzothiazole based squaraine dye sensitized solar cell containing bis-pendent sulphonate groups: synthesis, characterization and solar cell performances	Journal of molecular structure	2019
73	Synthesis and Characterization of new Squarine dyes with bis-pendent carboxylic groups for dye-sensitized solar cells	Journal of molecular structure 0022-2860	2019
74	Enhanced antimicrobial activity of zinc oxide nanoparticle with controlled particle size by current density	International Journal of Scientific research in chemical sciences	2019
75	Zinc oxide nanosphere synthesized via electrochemical method and its antifungal activity against Candida Albicans and Aspergillous niger	Journal of Applied Science and Computation	2019
76	A highly sensitive electrochemical sensor for the detection of dopamine by using zinc Oxide nanostructure modified glassy carbon electrode	International journal of Research and Analytical Reviews	2019
77	Synthesis of dimethyl octahydroquinazolinone by using electrochemically prepared copper oxide nanoparticle	Asian Journal of Chemistry	2020
78	Catalytic application of electrochemically prepared nickel oxide nanoparticles to synthesis 2,5-disubstituted-1,3,4-oxadiazoles	Oriental journal of chemistry	2020
79	Analytical Method Development and Validation for the Determination of Isoniazidin, Isoniazid and Ethambutol Hydrochloride Tablets	International Journal of Science and Research (IJSR)	2020
80	1-Ethyl-3-Methylimidazolium cyanoborohydride Catalyzed Solvent Free Microwave assisted One Pot Multicomponent Synthesis of Tetrahydrobenzo (b) Pyran Derivatives	Letters in Organic Chemistry	2020
81	Novel hemi cyanine sensitizers based on benzothiazole-indole for dye-sensitized solar cells: Synthesis, optoelectrical characterization and efficiency of solar cell	Journal of Molecular Structure	2021

82	Zeolite ZSM- 11 as a reusable and efficient catalyst promoted improved protocol for synthesis of 2,4,5-triarylimidazole derivatives under solvent-free condition	Research on Chemical Intermediate	2021
83	Silver oxide nanoparticles: an efficient antibacterial agent synthesized by electrochemical reduction method	Innovare Journal of Sciences	2021
84	ZS-1 Zeolite as a Highly Efficient and Reusable Catalyst for Facile Synthesis of 1-amidoalkyl-2-naphthols Under Solvent- Free Conditions	Catalysis Letters	2021
85	1,3-Thiazolidine-4-Ones: Copper Nickel Oxide Bimetallic Nanoparticles Catalyzed Synthesis, Anticancer Potential and Molecular Modeling, Studies		2021
86	Novel Poly (pyrrole-co-3-acetylpyrrole)-WO <sub>3</sub> nanocomposites modified gold electrode as Electrocatalytic oxidation and reduction of H <sub>2</sub> O <sub>2</sub>	Advanced Materials Letters	2021
87	Synthesis, Characterization and Antimicrobial Studies of the Metal Complexes of $\beta$ -Diketone	International Journal of Scientific Research in Science, Engineering and Technology	2021
88	An efficient green protocol for the synthesis of 1, 2,4,5-tetra substituted imidazoles in the presence of ZSM-11 zeolite as a reusable catalyst	RSC Advances	2022
89	1-Ethyl-3-Methylimidazolium Cynoborohydride Catalyzed Solvent Free Microwave Assisted One Pot Multicomponent Synthesis of Tetrahydrobenzo [b] pyran Derivatives	Letters in Organic Chemistry	2022
90	Neem gum (Azadirachta Indica) facilitated green synthesis of TiO <sub>2</sub> and ZrO <sub>2</sub> nanoparticles as antimicrobial agents	Inorganic Chemistry Communications	2023
91	[EMIm] [BH <sub>3</sub> CN] Ionic Liquid as an efficient Catalysts for the microwave assisted one pot synthesis of tri aryl Imidazole Derivatives	Letters in Organic Chemistry	2023
92	A rapid synthesis of quinoxalines by using Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> as heterogenous catalyst	Synthetic Communications	2023
93	Analytical method development and validation for the determination of Rifampicin, Isoniazid and Pyrazinamide in “Rifampicin, Isoniazid, Pyrazinamide and Ethambutanol hydrochloride” tablets.	Research Journal of Chemistry and Environment	2023
94	Nanostructured Iron (III) – Copper (II) Binary Oxide as a Highly Efficient magnetically recoverable Nanocatalyst for Facile One-Pot Synthesis of 2,4,5-trisubstituted Imidazole and 1,4-dihydro pyridine Derivatives under Solvent Free Conditions	Letters in Organic Chemistry (Benthum)	2024
95	Recent Advances in Solvent-Free Organic Transformation Via Iron -Doped Nanocatalyst	Current Organic Chemistry (Benthum)	2024

**17) Details of Research Scheme/Projects etc.**

Sr. No.	Title of the project	Project Value (Rs. In Lakh)	Funding Agency	Date of Commencement	Date of Completion
01	Utilization of metal oxides in photocatalytic organic transformations	2.0 Lakh	Dr. B. A. M. U., Chh. Sambhajinagar	13/06/2019	13/06/2021
02	UGC-SAP-DRS (Department Group Project)	140 Lakh	UGC, New Delhi	01/04/2016	31/03/2021
03	DST-FIST-Level-1 (Department Group Project)	100 Lakh	DST, New Delhi	2016	2021
04	Synthesis of nanostructure mono and bimetallic cluster of Cu and Mo and their application as catalyst in Various organic reactions	8,47,800/-	UGC-MRP	01/02/2011	31/01/2014
05	UGC-SAP-DRS (Department Group Project)	45 Lakh	UGC, New Delhi	01/04/2010	31/03/2015
06	DST-FIST (Department Group Project)	20.6999 Lakh	DST, New Delhi	09/05/2005	31/03/2010

**18) List of Research Students Awarded Ph.D. Degree/Working for Ph.D. Degree in Chemistry**

No. of Candidates Awarded Ph.D. – 13

No. of Candidates Working for Ph.D. – 05

Sr. No.	Name of the student registered	Title of Research	Date of Registration	Year of Award of Degree
1.	Ms. S. P. Jadhav	Electrochemical synthesis and characterization of transition metal nanoparticles	July 2008	13 <sup>th</sup> Dec 2011
2.	Mr. J. T. Deshmukh	Precipitation, characterization and opto-electrochemical studies on pseudo-binary II and IV group metal chalcogenide thin films	Dec 2008	03 <sup>rd</sup> Apr 2012
3.	Mr. M. N. Gaikwad	Physicochemical study of some fat soluble vitamins	Dec 2003	02 <sup>nd</sup> July 2012
4.	Ms. S. T. Dengle	Kinetic studies on the mechanism of oxidation and complex formation of some water soluble vitamin C	Dec 2002	13 <sup>th</sup> Aug 2012
5.	Dr. N. S. Korde	Structural and biological studies on metal complexes of $\beta$ -diketones.	Dec 2008	03 <sup>rd</sup> Dec 2013
6.	Ms. P. L. Anandgaonkar	Catalytic studies of synthesized metal nanoparticles in organic reactions	July 2008	23 <sup>rd</sup> May 2015
7.	Mr. D. D. Suryawanshi	Physicochemical studies on metal complexes of some potentially active ligand	July 2009	25 <sup>th</sup> May 2015
8.	Mr. N. R. Dighore	Preparation of conducting polymer nanocomposites and their applications	July 2013	29 <sup>th</sup> May 2017

9.	Ms. P. D. Shelke	Electrochemical synthesis of alumina and CuO monometallic and Al-Cu bimetallic nanocluster, their characterization and application	July 2013	23 <sup>rd</sup> March 2018
10.	Ms. A. A. Agale	Preparation and electrochemical studies of first row transition metal nanoparticles and their applications	July 2013	12 <sup>th</sup> May 2018
11.	Mr. N. A. Bhise	Physicochemical, electrochemical and biological studies on metal complexes of $\beta$ diketones	July 2013	11 <sup>th</sup> July 2018
12.	Mr. Sultan Abduh Hussein Al-Horaibi	Synthesis of novel squaraine dyes for dye-sensitized solar cells – catalytic studies of synthesized metal nanoparticles in organic reactions	Feb 2015	23 <sup>rd</sup> Nov 2019
13.	Ms. Al- Hubaishi Methaq Abdoulkarem	Electrochemical synthesis of aluminum and zinc monometallic and aluminium zinc bimetallic nanoclusters, their characterization and applications	May 2016	28 <sup>th</sup> Sep 2021
14.	Ms. S. S. Hatgaonkar	Synthesis of conducting Polypyrrole nanocomposites from transition metals and their electrochemical application	Dec 2014	Working
15.	Ms. S.M. Janjal	Electrochemical studies of synthesized metal nanoparticles and their applications	Dec 2014	Working
16.	Ms. M. B. Lande	Synthesis of mono and bimetallic nanoparticles of Fe and Cu, characterization and applications	June 2018	Working
17.	Ms. S. D. Nikam	Synthesis of graphene oxide decorated transition metal nanoparticles and their electrochemical application	Nov 2021	Working
18.	Ms. D. R. Surase	Preparation, characterization and electrochemical application of conducting polypyrrole nanocomposites from transition metals	Nov 2021	Working

#### 19) Reviewer of Journals/Ph.D. Thesis

Savitribai Phule Pune University, Pune	Swami Ramanand Teerth Marathwada University, Nanded
Mysoor University, Mysoor	Andhra University, Vishakapattanam
Shimoga University	Sant Gadge Baba Amravati University, Amravati
Kavayatri Bahinabai Chaudhari North Maharashtra University, Jalgaon	Shivaji University, Kolhapur
Mumbai University, Mumbai	Saurashtra University Rajkot
Gujrat University, Gujrat	Pt. Ravishankar Shukla University, Raipur, Chatisgad

Osmania University, Hyderabad	Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat
Tripura University, Tripura	Manonmaniam Sundaranar University, Tirunelveli

## 20) Extension activities: College/University/Institution

1. Member of Advisory Committee of Astha Day Care Center from 2013 onwards.
2. Worked as a Chairman and Member of various committees of Dr. B. A. M. U., Chh. Sambhajinagar i.e. Discipline Committee, Examination Committee, Admission Committee, Paper Setting Committee, Affiliation Committee, Selection Committee, Annual Report Committee etc.
3. Life member of Indian Science Congress Association, Kolkata (L20898).
4. Life Member of Indian Chemical Society, Kolkata (F/6773).
5. Life Member of Society for Materials Chemistry, BARC Mumbai (LM858).
6. Life Member of Indian Council of Chemists, Agra (FellowshipNo.LF1455).
7. Life Member of Analytical Chemistry Teachers and Researchers, Association, Chh. Sambhajinagar (LF/46/2016).
8. Member of Organizing Committee of Pre-Science Congress: 2014
9. Course Coordinator, 14<sup>th</sup> Refresher Course in Chemistry, Dr. B. A. M. U. Chh. Sambhajinagar (11.02.2008-02.03.2008)
10. Worked as a Member of Fact-Finding Committee of University Employees, Dr. B. A. M. U., Chh. Sambhajinagar.
11. SET Observer, Govt. Polytechnic College, Nanded (13.09.2009).
12. Member of General Development Assistance, Minor Research Projects for Teachers and Organizing Conference in College, Dr. B. A. M. U., Chh. Sambhajinagar.
13. Subject Expert on Teachers Selection Committee, Sant Gadge Baba Amravati University, Amaravati.
14. A Member of Academic and administrative Audit Committee, Solapur University, Solapur (17.03.2016).
15. Convener, National Conference on Frontiers in Chemical Sciences and Drug Development, Department of Chemistry, Dr. B. A. M. U., Chh. Sambhajinagar (17-18 March, 2017).

## 21) Special Achievements/Awards:

1. Worked as **Head of the Department** (2014-2017)
2. **Dewang Mehta National Education Award for Women in Leadership** on 01/09/2017
3. A **Member of SENATE**, Dr. B. A. M. U. Chh. Sambhajinagar (2011-2015)
4. **Director**, CAP Center, Dr. B. A. M. U. Chh. Sambhajinagar (2009-2010)
5. A **Member of Campus Development Committee**, Dr. B. A. M. U. Chh. Sambhajinagar (2011-2013)
6. A **Council Member** of Indian Chemical Society (2014-2016)
7. A **Member of Advisory Committee** of Astha Day Care Center, Dr. B. A. M. U. Chh. Sambhajinagar (2013-2018)
8. A **Member of Research Review Committee**, Dr. B. A. M. U. Chh. Sambhajinagar (2014-2018)
9. A **Member of Advisory Committee of CFART**, Dr. B. A. M. U. Chh. Sambhajinagar (2015-2017)
10. **Coordinator, DST-FIST (2016-2017)**, Department of Chemistry, Dr. B. A. M. U. Chh. Sambhajinagar.
11. **Coordinator, UGC-SAP-DRS-II** (2016-2021), Department of Chemistry, Dr. B. A. M. U. Chh. Sambhajinagar.
12. **Chairperson of Internal Complaint Committee (Vishakha Samiti)**, Dr. B. A. M. U. Chh. Sambhajinagar, Since 04 June 2022.
13. **Member of Advisory Committee**, Tarabai Shinde Women's Studies Centre, Dr. B. A. M. U. Chh. Sambhajinagar, Since 15.11.2022

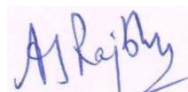
## 22) Research Guidance:

- Number of students awarded Ph.D. degree : **13**
- Number of students working for Ph.D. degree : **05**

### 23) Experimental Skills:

- Expertise in Synthesis of Nanomaterials.
- Analysis of Nanomaterials by FTIR, XRD, SEM, EDS, NH<sub>3</sub>-TPD, XPS, TGA-DTA DSC, Spectrofluorometer.
- Catalytic studies of synthesized nanomaterials by Mass spectroscopy, NMR, FTIR.
- Handling of sophisticated instruments FTIR, densitometer, AVS-350 Viscometer, UV-Visible Spectrophotometer and High temperature furnace, High pressure Autoclave TGA-DTA-DSC, HPLC, Gas Chromatography, Photoreactor, CV, PG Stat etc.

**24) Field of Research:** i) Polymer Chemistry    ii) Nanotechnology    iii) Catalysis



**Date: - 03/07/2024**

**Dr. Anjali S. Rajbhoj**

Senior Professor, Department of Chemistry,  
Dr. Babasaheb Ambedkar Marathwada University,  
Chhatrapati Sambhajnagar-431004 (M.S.)