

Resume



Dr. Ganesh T. Pawar (M. Sc. Chemistry, SET., Ph. D)

Assistant Professor and Research Supervisor,
Department of Chemistry, School of Basic and Applied Sciences,
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Google Scholar:

<https://scholar.google.com/citations?user=tcRyeQkAAAAJ&hl=en>

Profile Description

- Expert in design, synthesis and catalytic applications of zeolites, mesoporous silica supported metal oxides and coordination complexes for green organic synthesis, environmental remediation and sustainable applications.
- Creative mindset with hands-on high-pressure autoclave reactor for hydrothermal synthesis, thermal, photocatalytic and microwave assisted organic transformation and range of instruments (UV-Visible, FT-IR, HPLC, GC, etc).
- Designed and implemented agriculture waste solid biomass transformation into biochar for preparation of support material for metal /metal oxide nanoparticles.
- Expert in wet chemical analysis, inorganic and organic synthesis.
- Enriched expertise in teaching, learning, evaluation, research, innovation and outreach activities in chemical sciences.
- Extensive experience in design and development of curriculum as per NEP-2020.
- Life member of Society of Material Chemistry, BARC. (LM-918)
- **Young Scientist Award** for best oral presentation in 51st Annual Convention of Chemist organized by Indian Chemical Society Kolkata

Professional Experience

Current organization (MGM University) 2022 onwards

Teaching & administrative Experience

- **Assistant Professor** at Department of Chemistry, School of Basic and Applied Sciences, MGM University, Chhatrapati Sambhajanagar (SBAS-MGMU-CSN)
- **Member of Board of Studies in Chemistry.**
- Training and Placement Cell Coordinator.
- NAAC, AAA, NIRF and NEP Coordinator.
- Member of faculty of Basic and Applied Sciences, MGM University.

2017-2022 (MSPM-SCCA-CSN)

Teaching & administrative Experience

- Assistant Professor at MSP Mandal's Shivchhatrapati College, Chhatrapati Sambhajanagar. (MSPM-SCCA-CSN) (July-2017-August-2022)
- IQAC Coordinator (MSPM-SCCA-CSN) (**June 2021 To August 2022**)
- Head Department of Chemistry at (MSPM-SCCA-CSN) (**August 2019-February 2021**)
- Served as a President of Institution's Innovation Council (IIC) at (MSPM-SCCA-CSN).
- Worked as Coordinator for National Level Innovative Idea Competition (NLPC-2020) (MSPM-SCCA-CSN).

2013-2017 (Dr. BAMU-CSN)

Ph. D Researcher at Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar (Dr. BAMU-CSN)

- Title of Ph. D. Thesis: Comparative Studies on Catalytic Properties of Natural and Synthetic Zeolites

	<ul style="list-style-type: none"> ➤ Research Supervisor: Dr. M. K. Lande (Professor, Dept. Chemistry, Dr. BAMU-CSN) ➤ Recipient of Dr. Babasaheb Ambedkar Marathwada University Research Scholar Fellowship. <p>Highlights of Research Work</p> <ul style="list-style-type: none"> ➤ Collected, modified, characterized and utilized natural Mesolite type zeolite as seed for preparation of its synthetic analog by sol gel hydrothermal method. Natural and synthetic Meolite was studied by powder X-ray diffraction, SEM-EDS, FT-IR, NH₃-TPD and BET surface area analysis. ➤ Natural and synthetic Mesolite was used as solid heterogenous and reusable acid catalyst for efficient and green synthesis of various heterocyclic derivatives such as Imidazolyl-Pyrazole, Pyazolyl-Pyrazole, Chromens, Quoline, isoxazole, pyrazoline etc. ➤ Developed catalytic method for insitu formylation and Knoevenagel condensation reactions. ➤ Developed metal supported mesoporous catalyst such as Zr-MCM-41, Ti-MCM-41, Ce-MCM-41, Fe-MCM-41 and TS-1.
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Academic and Professional Skill Qualification

Sr. No	Examination/ Degree	Board/University	Subject/ Specialization	Year of passing	Percentage
Academic Qualifications					
1	Ph. D	Dr. Babasaheb. Ambedkar Marathwada University. Chh. Sambhajinagar.	Chemistry (Zeolite Catalysis)	2017	Awarded
2	SET	Savitribai Phule Pune university, Pune.	Chemical Sciences	2016	Qualified
3	M. Sc. Chemistry	Dept. Chemistry Dr. B. A. Marathwada University, Chh. Sambhajinagar.	Specialization in: Inorganic Chemistry	2012	60.00 %
4	B.Sc.	Dr. Babasaheb Ambedkar Marathwada University, Chh. Sambhajinagar.	CHEM, BOT, ZOO.	2010	65.15%
5	H.S.C. (XII)	Maharashtra State Board of Secondary and Higher Secondary Education, Pune.	ENG, MAR, PHY, CHEM, BIO, PSY.	2007	67.50 %
6	S.S.C. (X)	Maharashtra State Board of Secondary and Higher Secondary Education, Pune.	MAR, ENG, HIN, SST, SCI, MATH	2005	70.13 %
7	MS-CIT	MKCL, MSBTE	Information Technology	2007	72.00 %
Professional Skill Qualifications					
1	Infosys FDP	Infosys BPM Pune	Global Business Foundation Skill	2019	Awarded
2	Certificate Course	ICT Academy, ATOS, Syntel	Digital Teaching Techniques	2021	Awarded
3	English Typing 50 WPM	G.C.C. Exam Board Pune	English	2006	“C” Grade
4	Marathi Typing 40 WPM	G.C.C. Exam Board Pune	Marathi	2006	“C” Grade

5	Certificate Course	National Institute of Education Sambhajinagar Chh.	Communication English.	2014	“B” Grade
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Contribution in Curricular Activity	
Teaching	<ul style="list-style-type: none"> ➤ Actively contributing in teaching learning and evaluation process for courses such as Main Group Chemistry, Coordination Chemistry, Bioinorganic Chemistry, Spectroscopy, Organo Transition Metal Chemistry, Medicinal Chemistry, Courses in Inorganic and Physical Chemistry. Lab Courses in Inorganic and Physical Chemistry. ➤ Extensive guidance to Hands-on training in Design and synthesis of nanocatalysts and metal complexes and their applications. ➤ Developed short notes, keywords, PPT lectures for effective teaching learning process. ➤ Designed and developed laboratory experiment manual for students. ➤ Guided students for AVISHKAR, Science Exhibition, and Research Paper Presentation.
Curriculum Development	<ul style="list-style-type: none"> ➤ Designed and developed course structure, evaluation scheme and syllabus of B. Sc. (Hons.)/ (Hons. With Research) Chemistry four UG degree Programme with major minor combinations and M. Sc. Chemistry two-year PG degree programme with specialization in Organic Chemistry, Analytical Chemistry and Industrial Chemistry. ➤ Developed Minor and Open Elective courses in Chemistry such as Polymer Chemistry, Green Chemistry and Analytical Chemistry.
Contribution in Co-Curricular Activity	
Organization and coordination	<ul style="list-style-type: none"> ➤ Actively participated as coordinator for organization of various enrichment activities of department of chemistry such as expert talk, workshop, Bridge course, seminar, conference and Industry Academic Innovative Practices etc. ➤ Organized study tour/industrial visit at CIPET: CSTS, Infosys Pune for students of B. Sc. & M. Sc. Chemistry. ➤ Established the collaboration with Harman Finchem, CSIR-IMMT Bhubaneshwar, SHODH Advantech LLP and CIPET:CSTS for skill development of students. ➤ Implementing Infosys Global Business Foundation Skill (GBFS) program to train students for effective placement of students.

Expert Talk, Seminars, Conference, Symposia, Work-shops and FDP organized			
Sr. No.	Name of Activity	Organizing agency/Institute	Role/Responsibility
1	Expert Talk on Applications of Metal Organic Frameworks (MOFs) in Biomass Transformation. Date: 24th January 2026 , Subject Expert: Dr. Babasaheb Matsagar (Professor, Yuan Ze University, Taiwan)	Department of Chemistry, MGM University.	Coordinator
2	National Workshop on Materials Synthesis and Analytical Techniques- 2025 (NWMSAT-25)	Department of Physics, MGM University.	Coordinator

	Date: 27 January-01 February 2026.		
2	National Level Conference on “Role of Chemistry for Sustainable Future” (RCSF-2.1) Date: 13th July 2021	M. S. P Mandal’s Shivchhatrapati College	Coordinator
2.	National Level webinar on IPR Date: 02 August 2021 , Subject Expert: Dr. T. Pavankumar (Principal Scientist, CSIR, IMMT, Bhubaneswar)	M. S. P Mandal’s Shivchhatrapati College	Coordinator
3.	Six Day National Level Workshop on preparation NET/SET Examination Date: 04th - 07th October 2021	M. S. P Mandal’s Shivchhatrapati College & Deogiri College	Coordinator

Contribution in Professional development activities

Seminars, Conference, Symposia, Work-shops and FDP Attended			
Sr. No	Name of the Seminars, Conference, Symposia, Work-shops etc.	Name of the Agency	Place and date
1	Oral presentation 51 st Annual conventions of chemists	Indian chemical Society	Department of chemistry Kurukshetra University, Kurukshetra. 09-12 December 2014
2	Oral presentation Material advances for better future	UGC	Department of chemistry and Physics, Jijamata College of Science and Arts Bhenda, Ahemadndagar (M. S), 16 & 17 January
3	Participated Current trends in chemical research	UGC	Department of Chemistry Vasantro Naik college Aurangabad. 30 August 2012 .
4	Participated DEE-BRNS 2 nd National workshop on Materials Chemistry –NWMC-2015	BRNS, DAE	Chemistry Division BARC, Trombay, Mumbai 20 & 21 Nov, 2015
5	Participated Orientation program	MSP Mandal	Muktanand College Gangapur. 2012
6	Participated Orientation program	MSP Mandal	Shir Shivaji College Parbhani- 2014
7	Participated University Industry Interaction Summit-2017	Dr. B. A. M. University	Dr. B. A. M. University Auditorium, Aurangabad Dec. 2016
8	Poster presentation University Level AVISHKAR-2016	Dr. B. A. M. University	Dr. B. A. M. University, Aurangabad 26 Dec. 2016
9	Participated Orientation program on “Intellectual Property Rights”	MSP Mandal	Deogiri College, Aurangabad 30 July 2017

10	Participated National Seminar on Revised NAAC Accreditation Framework: Opportunities & Challenges	MSP Mandal	Shri Muktanand College Gangapur on 3 Sept 2017
11	Oral presentation National Conference on New Horizons in Material Science	BCUD-SPPU	Department of chemistry, New Arts, Commerce and Science College Shevgaon, Ahemadndagar (M. S), 22 & 23 January-2018
12	Participated MHRD'S Innovation Cell Regional Orientation Session on IIC 2.0 and ARIIA 2020	MHRD'S Innovation Cell	Army Institute of technology, Pune, Maharashtra on 26th July 2019
13	International Conference: NANO-SA-2026 Participated and Presented Poster entitled "Synthesis, Characterization and Photo-Antibacterial Application of Biochar/Cu-TiO ₂ Nanoparticles"	Institute of Chemical Technology, MRJ	Hotel Rama International 12 and 13 February 2026

Invited Talk/Lectures delivered

Sr. No	Topic of Lecture	Title of activity	Organizing institute
1	Hydrothermal Synthesis of Porous Materials for catalysis	National Workshop on Materials Synthesis and Analytical Techniques-2025 (NWMSAT-25)	Department of Physics, MGM University. Date: 27 January-01 February 2026.
2	Applications of Porous Materials in water Technology	Expert Talk	Hi-Tech Institute of Technology Date: 26 April 2025
3	Applications of Natural Zeolites in Water Softening	Expert Talk	Government College of Polytechnic Date: 06 February 2025

Contribution in Extension and Outreach

Contribution in Extension activities

NSS Camp Activities	<ul style="list-style-type: none"> ➤ Soil analysis and farmer counseling on micronutrients and at farmers of Kuber Geori Chh. Sambhajinagar. ➤ Safety practices for use of pesticide and agrochemicals.
Outreach Activities	<ul style="list-style-type: none"> ➤ Organized and demonstrated chemistry experiments of Xth standard students of Sent Meera High School Chh. Sambhajinagar. ➤ Delivered talk on NEP-2020 implementation at various schools and junior colleges of Chh. Sambhajinar region as part of student connect programme. ➤ Participated/donated blood in annual blood donation camp.

Contribution in Research Guidance

List of research students supervised for Ph. D. degree in chemistry.				
Sr. No.	Name of Research Student	Topic of Research	Date of Registration	Date of Award
1	Mr. Sachin H. Pawar	Preparation, Characterization and Catalytic Applications of Biochar Supported Metal Oxide Nanoparticles	15 January 2024	-
2	Ms. Megha B. Labade	Development of Zirconium containing Mesoporous Silicate Framework for Efficient Synthesis of some Bioactive Heterocyclic Compound	15 January 2024	-
3	Ms. Madhuri M. Radkar	Design, Synthesis, Characterization and Biological Studies on Transition Metal Complexes of Pyrazole containing Schiff Base Ligands	15 July 2025	-

List of Research Publications

Research Papers Published in Scopus index journal
1. Mesolite: An Efficient Heterogeneous Catalyst for One Pot Synthesis of 2-Amino-4H-chromens; G. T. Pawar , R. R. Magar, M. K. Lande, <i>Polycyclic Aromatic compound</i> , (2018) 38(1), 75–84. http://dx.doi.org/10.1080/10406638.2016.1159584 (IF: 374)
2. Mesolite Catalyzed One Pot Synthesis of Quinoline-3-carbonitrile Derivatives; G. T. Pawar , R. R. Magar, M. K. Lande, <i>Iranian Journal of Catalysis</i> , (2016), 6(4), 355-362 (IF: 2.0)
3. Modification, Characterization and Catalytic Application of Mesolite for One Pot Synthesis of 3-Methyl-4-arylmethylene-isoxazol-5(4H)-ones, <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , G. T. Pawar , S. P. Gadekar, B. R. Arbad, M. K. Lande, (2017) 12 (1) 32-40 (IF:1.54)
4. Fe-MCM-22 catalyzed multicomponent synthesis of dihydropyrano [2,3-c] pyrazole derivatives; Rameshwar R. Magar, Ganesh T. Pawar , Sahin P. Gadekar, Machhindra K. Lande, <i>Iranian Journal of Catalysis</i> (2017) 7(1) 1-9 (IF: 2.0)
5. Preparation, Characterizations of TS-1 Zeolite: An Effective Solid Acid Catalyst for the Synthesis of 1, 3, 5-Triaryl-2-Pyrazolins, Gadekar, S. P., Pawar, G. T., Magar, R. R., & Lande, M. K., <i>Polycyclic Aromatic Compounds</i> , (2017) 40(1), 126–134. https://doi.org/10.1080/10406638.2017.1363060 (IF: 3.74)
6. An Efficient Synthesis of 1, 8-Dioxo-Ocatahdroxanthenes Derivatives Using Heterogenous Ce-ZSM-11 Zeolite Catalyst; Rameshwar R. Magar, Ganesh T. Pawar , Sahin P. Gadekar, Machhindra K. Lande, , <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> ,13 (3) 2018, 436-446 (IF:1.54)
7. Ce-ZSM-11 Zeolite: An Efficient Heterogeneous Catalyst for One Pot Synthesis of 4H-Pyran Derivatives, Raeshwar R Magar, Ganesh T. Pawar , Sachin P. Gadekar; Machhindra K. Lande, <i>Iranian J. Chem. & Chem. Eng.</i> 2020, 39, 1, 99-104
8. Preparation, characterization and catalytic application of Zn-based metal–organic framework catalyst for synthesis of 3,3-(arylmethylene)bis-1 <i>H</i> -indole derivatives, Rathod, V. N., Pawar, G.T. , Gaikwad, S.T. and Lande, M.K. <i>J Chem Technol Biotechnol</i> , 2022, 97: 2005-2012. https://doi.org/10.1002/jctb.7071 (IF: 2.4)
9. Synthesis and Biological Study of Novel Schiff Base (1-((3-(4-fluorophenyl)-1-isopropyl-1 <i>H</i> -indol-2-yl) methylene) hydrazine) Ligand and Metal Complexes., Joshi NR, Mule SG, Gore VA, Suryawanshi RD, Pawar G. T. , Bembalkar S.R, Pawar R. P. <i>J. Explor. Res. Pharmacol.</i> (2022) 7(4):202-207. doi: 10.14218/JERP.2022.00021
10. Microwave-Assisted, Solvent-Free, One-Pot Synthesis of Bioactive Imidazolyl-Pyrazole and Imidazole Derivatives Catalyzed by Mesolite-Type Natural Zeolite.” S. S. Dhotre, G. T. Pawar , R. P. Pawar, V. S. Dofe, P. P. Deshpande, and S. R. Vaidya, <i>ChemistrySelect</i> 11, no. 4 (2026): e05539. https://doi.org/10.1002/slct.202505539 (IF: 2.0)

Book Chapter and Conference Paper Published

1. An Overview on Design, Synthesis and Applications of Schiff Base Ligands and their Metal Complexes, *Sustainable Developments in Chemistry*, 2025/09, 44-58, RED'SHINE PUBLICATION (**Book Chapter**)
2. Preparation, Characterization and Catalytic Applications of Al-SBA-15 type Mesoporous Zeolite for One Pot Efficient Synthesis of Tetrahydrobenzo [c] acridine-8 (7H)-one, G. T Pawar, R. R Magar, J. S Godse, R. P Pawar, *IJSRST*, 10, 13, 342-353. (**Conference: IECIPBES-2023**)
3. Mesoporous Al-SBA-15 Zeolite: An Efficient and Reusable Heterogeneous Catalyst for Green Synthesis of Pyrimido [4, 5-d] Pyrimidine Derivatives, G. T. Pawar, R. R. Magar, B. B. Nagolkar, *IJSRST*, 12, 10, 20-30. (**Conference: RACBCS-2025**)

Seed Funded Research Project

Sr. No.	Title of Project	Project Sanction No.	Seed Funding Body	Duration	Amount Sanctioned
1	Development of Biochar Supported Metal Oxide Nanomaterials for Efficient Synthesis of Bioactive Heterocyclic Compounds	MGM University Research Scheme Project sanction no. MGMU007/25-26/R & D/93.	MGM University	26 June 2025 To 30 April 2027	2, 88,000

Vision Mission Statement

Vision: To be recognized as a center for excellence in the field of chemical science education, research and innovation by nurturing chemistry with environmental responsibility.

Mission:

- To provide high quality education in the field of chemical sciences with research attitude.
- To develop skilled and competent researchers, scientists, trained chemical analysts with fundamentals and advanced knowledge and skill in the chemical science domain.
- To collaborate with reputed academic and research institutes, eminent alumni, industrial experts and academicians to strengthen the curriculum and research ecosystem.
- To enhance engagement with society and industry through various programs.

Declaration: I hereby declare that the information given above is true and correct to the best of my knowledge and belief.

Date: 15/02/2026

Place: MGM University, Chh. Sambhajinagar.

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<https://sbas.mgmu.ac.in/department-of-chemistry.php>