Curriculum Vitae

Dr. MALAK SAJID AJIT

Associate Professor, H. J. Thim College of Arts and Science, Mehrun, Jalgaon

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Education

PhD in Organic Synthesis 2019-2025

Thesis: "Synthesis Biological Evaluation and Docking Analysis of Schiff Bases Derived from 1,3,4-Thiadiazole."

M.Sc. in Organic Chemistry 2004

NET (JRF) Chemical Sciences 2008

B. Sc. Chemistry 2002

Appointment

Associate Professor in Chemistry at H. J. Thim College, Jalgaon since July 2009 to Present.

Teaching Experience 16+ years

Area of Research/Expertise

Organic Synthesis, Medicinal Chemistry, Drug Designing, Computational Chemistry.

Publications

- Novel Schiff Bases Derived from Substituted 1,3,4-Thiadiazole (TDA): Synthesis, Biological Evaluation and In Vitro Anti–Microbial Studies 2023,12 (Special Issue 7), 8940–8947.", European Chemical Bulletin, ISSN: 2063-53462016.
- "Design, synthesis, spectral analysis, and biological evaluation of Schiff bases with a 1,3,4-thiadiazole moiety as an effective inhibitor against bacterial and fungal strains. 14 (4) (2023) 466-472." European Journal of Chemistry, ISSN: 2153-2249 (Print)/ISSN 2153-2257 (Online).
- Synthesis and Biological Activity of Different Substituted Thioamide Derivatives; 8940–8947, European Chemical Bulletin, ISSN: 2153-2249.
- A Review on Biofuels: Advancements, Challenges and Future Prospects. (2025), 15 (2); Platinum- National Multidisciplinary Journal, ISSN: 2231-0096.
- Kinetics Modelling Study: Adsorption of Victoria Blue on Mahaneem Leaf Powder; 293-302 International Journal of Advanced Scientific and Technical Research, Volume 1, Issue 6, 2016, ISSN: 2249-9954.

- Evaluation of Thermodynamic Parameter and Equilibrium Studies of Adsorption of Brilliant Green by Calatropis Procera; 188-201, 2016, American Journal of Sustainable cities and society, Volume 1, Issue 5, ISSN: 2319-7277.

- Thermodynamic Studies of Adsorption of Congo Red by Cordia Myxa; 599-609, Journal of Medicinal Chemistry and Drug Discovery, Volume 3, (2), 2017, ISSN: 2374-9027.

- A Scientific Review on Medicinal Natural Products in some Medicinal Plants from Jalgaon District of North Maharshtra; 57-59, Journal of Research and Development, Volume – 10, Issue-02, ISSN: 2230-9578.

Books/Chapter in a Book

- Co-authored a textbook entitled "Food Chemistry" for F. Y. B. Sc. As per NEP-2020 by Prashant Publication, ISBN: 978-93-48537-19-5.

- Co-authored a textbook entitled "Environmental Pollution" for S. Y. B. Sc. As per NEP-2020 by Prashant Publication, ISBN: 978-81-990022-1-0.

- Co-authored a textbook entitled "Waste Management" for S. Y. B. Sc. As per NEP-2020 by Prashant Publication, ISBN: 978-93-47157-63-9.

- Chapter entitled "Microwave Assisted Synthesis of Transition Metal Complexes Bearing Bioactive Heterocycle" in Iterative International Publisher (IIP)

Patent

- Secured a Design Patent for an innovative "Device for Testing Fast Dissolving Tablets"

Conferences / Presentations

- Paper entitled "Synthesis of Oxygen and Sulfur Containing Heterocyclic Compounds" at DSDD College, Wada in One Day National E-conference on GCMACW 2026, 15 April 2026.

- Paper entitled "Synthesis, Characterization and Hypoglycemic Activity of Different Substituted pyridin-3-yl methanethione derivatives" at the S. P. College, Pune in National Conference on Recent Advancement in Chemical Sciences (RACS-2026), 24 & 25 February 2026.

- Paper entitled "Eco-Efficient and Antimicrobial Evaluation of Novel Schiff Bases Incorporating a Thiadiazole Pharmacophores" at D.M.P. Deo Memorial Science, College, Nagpur, in international Conference on Advanced Functional Material in Chemical Sciences (RACS-2026), 06 & 07 February 2026.

- Paper entitled "Bio-Waste to Bio-Remedy: Banana Peel Ash in Dye Effluent Treatment in Surat, Gujrat" at Arts, Commerce and Science College, Jamner in National Conference on Recent Trends in Science and Technology, 10 January 2026.

- Paper entitled "Phytonanoparticles used in Decomposition of Industrial Dyes and Textile

Effluent" at Adarsh Education Society ACS College, Hingoli in National Conference on Advanced Knowledge in Chemistry (AKC-2025) on 12 August 2025.

- Paper entitled "A Review on Biofuels: Advancements, Challenges and Future Prospects" at H. J. Thim College, Jalgaon.
- Paper entitled "Synthesis and in vitro Biological Evaluation of Novel Schiff Bases from Substituted 1,3,4-Thiadiazole..'" at P. O. Nahata College, Bhusawal.
- Paper entitled "Schiff Bases Derived from Substituted 1,3,4-Thiadiazole (TDA): Synthesis Biological Screening and Their Antimicrobial Potential" at Lokmanya Tilak Mahavidyalay, Wani, & Sidvi Foundation.
- Paper entitled "Green Synthesis of Biologically Active Schiff Bases Containing 1,3,4-Thiadiazole Moiety" at SDD KBCNMU, Jalgaon and H. J. Thim College of Arts and Science, Jalgaon.
- Paper entitled "A Scientific Review on Medicinal Natural Products in Some Medicinal plants from Jalgaon District of North Maharashtra" at H. J. Thim College, Jalgaon.
- Paper entitled "Minimizations of Chemical Waste Generated by Laboratory Activities in Universities and Colleges" at Raver Burhanpur College (M.P.), 11 and 12 February 2019.
- Paper entitled "Thermodynamic Studies of Adsorption of Congo Red by Cordia Myxa Leaf Powder" at Maulana Azad College, Aurangabad, on 08 January 2017.

Administrative Experience

- Head, Department of Chemistry, H. J. Thim College, Jalgaon, (2021-22 to 2026-27).
- Member, Syllabus Restructuring Committee of KBC North Maharashtra University for the subject "Food Chemistry and Food Safety" as per NEP-2020.
- Member, Syllabus Restructuring Committee of KBC North Maharashtra University for the subject CH-321 Field Project" as per NEP-2020.
- Member, Local Inspection Committee (LIC) for the Academic Year2022-23 at K. Narkhede College, Bhusawal, Dist-Jalgaon.
- Subject Expert, for the Recruitment of Assistant Professor at Nutan Maratha College, Jalgaon.
- Student Development Officer, (2024-2025 to till date)
- Co-ordinator of NAAC, CRITERIA- VII (NAAC 3rd Cycle)
- Worked as a Sector Officer in General election 2024.
- Worked as a NSS Program Officer.

Awards/ Recognition/Fellowships

- "Vidyabhusan National Award 2025" In recognition of Sterling Merit Excellent Performance & Outstanding Contribution in the Field of Education.

Conference Organization

- Member of Advisory Committee for one Day National Conference on Advanced Knowledge in Chemistry (AKC-2025) on 12 August 2025 organized by Adarsh Education Society ACS College, Hingoli.
- Worked as a Co-Convener of one day State level Conference on 'Recent Advancement in Chemical, Biological and Environmental Sciences' on 18th January 2025.
- Member of organizing committee for one week National Workshop on 'UGC-NET/SET/PET Preparation' from 12th February 2023 to 17th February 2023.
- Member of an organizing committee for one day National Seminar on 'Sustainable Development Goals and Their Implementation in India' on 30th November 2022.
- Member of an organizing committee for National Level one week virtual Workshop on 'Research Methodology' from 30 March to 6 April 2026.

Citation Metrics

Total Publications: 07+

Total Citations: 09

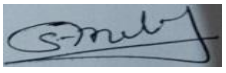
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Technical Skills/Research Tools

- Proficient in Chemo metric tools Such as ***PyChem software*** to integrate datasets Such as Spectral Data, Biological Activity, Docking Scores Etc.
- Proficient in ***BKChem software*** for drawing Chemical Structures, Reaction Mechanisms useful for generating Publication Quality Figures for Research articles and Academic reports.
- Proficient in ***ChemDraw software*** for designing Chemical Structures, Reaction Mechanisms useful for generating Publication Quality Figures for Research articles and Academic reports.

Membership

- Life member of Association of Chemistry Teachers KBC North Maharashtra University.



Updated on 20/04/2026