Curriculum Vitae

Mr. RAMKRISHNA YOGRAJ PATLE
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Objective

To pursue a career in an organization by holding a responsible position, this would enhance my skills to work in a competitive environment, seeking excellence in the professional field through self-motivation and hard work, contributing to the success of the organization.

Educational qualification:

- M.Sc (Chemistry) passed in First class 73.00 **%)** with specialization of Organic chemistry and medicinal chemistry as an elective subject from Department of Chemistry, R.T.M. Nagpur University, Nagpur in summer 2012.
- B.Sc. (Chemistry, Biotechnology, Microbiogy) passed in First class (**69.84%)** from Janata Mahavidyalaya Chandrapur, in summer 2010 (R.T.M. Nagpur University).
- HSSC (C.B.S.E) passed with **82%** from J.N.V. Talodhi(Ba.), Chandrapur in summer 2006,(CBSE, DELHI).
- SSC (C.B.S.E.) passed With **86.4%** from J.N.V. Talodhi(Ba.), Chandrapur r in summer 2004, (CBSE, DELHI).
- Others: MS-CIT, Plant tissue culture training, ITIZEN computer course, participated in Poster presentation IYC-2011 at NMU,Jalgaon.
- CSIR NET JRF DEC-2012 (RANK 52)
- GATE 2013 (AIR 250)

Employment Status:
Working as Assistant Professor and Head, Department of Chemistry since 28th October 2013 at Mahatma Gandhi College of Science, Gadchandur, Dist. Chandrapur-442908(M.S.)

Administrative Experience
Officiating Principal- 03 years

Research Area:

Pursuing PhD. in Chemistry at PGTD, RTM Nagpur University, Nagpur.

- Organic Synthesis
- Dendrimer Chemistry
- Magnetic Nanomaterials
- Polymer
- Supramolecular chemistry
- Nanochemistry
- Environmental chemistry

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Publications:

1. **R.Y. PATLE**;* Y.N. SELOKAR; K.K. MESHRAM; R.S. DONGRE. Synthesis and Characterization of Cobalt(II) Complex of Polyamido-Amine (PAMAM) Decorated Azomethine Ligand: In Vitro Biological Evaluation. *Asian Journal of Chemistry***, 2025,** *37*(3*),* 617-623. https://doi.org/10.14233/ajchem.2025.33250 **(Scopus indexed, open access).**

2. *__Patle, R. Y.;__ Meshram, J. S. The Advanced Synthetic Modifications and Applications of Multifunctional PAMAM Dendritic Composites. *React. Chem. Eng.* **2022**, *7* (1), 9–40. https://doi.org/10.1039/d1re00074h. (**Royal Society of Chemistry, Scopus Indexed, IF 3.4**)

3. Manvatkar, V. D.; **Patle, R. Y**.; Meshram, P. H.; Dongre, R. S. Azomethine-Functionalized Organic–Inorganic Framework: An Overview. *Chem. Pap.* **2023**, *77* (10), 5641–5662. https://doi.org/10.1007/s11696-023-02889-y. **(Springer, Scopus Indexed, IF 2.3).**

4. *__Patle, R. Y__.; Dongre, R. S. Recent Advances in PAMAM Mediated Nano-Vehicles for Targeted Drug Delivery in Cancer Therapy. *J. Drug Target.* **2025**, *33* (4), 437–457. https://doi.org/10.1080/1061186X.2024.2428966. **(Taylor and Francis, Scopus Indexed, IF 4.3).**

5. **Patle, R. Y.;** INFLUENCE OF CEMENT PARTICULATES ON THE SOIL HEALTH: A CASE STUDY OF SOIL IN THE VICINITY OF CEMENT FACTORIES. *Journal of Advanced Scientific Research*. 11, 04 Suppl 9 (Jan. 2021), 202-206.
6. **Patle, R. Y.;** "Scenario of the role of Nanocomposites in the removal of the organic and inorganic pollutants from wastewater – A Review", International Research Journal of Natural and Applied Sciences, 5(2), 2018, 204-214.
7. **Patle, R. Y.;** The impact of discharges of the coal based thermal power plants on the soil Properties, Journal of Interdisciplinary Cycle Research, 11(9), 2019.
8. **Patle, R.Y,;** Ghodile S.B.; Vaidya C.D. Effect of Coal mine Discharges on soil characteristics in the vicinity of Rajura Town, *Galaxy Link,* 10(2), 2022, 90-99.

Patents:

1. **Application no:** 202321044897

Title: Innovative Organic Nanomaterials For High-Efficiency Solar Cells.

Publication date: 15/09/2023.

2. **Application no: 202521008550**

Title: An antimicrobial PAMAM dendritic metal complex

Filing date: 1st Feb 2025

Published date: 21/02/2025

3. **Application no: 202521008551**

Title: A process for synthesis of PAMAM dendritic metal complex having antibacterial properties

Filing date: 1st Feb 2025

Published date: 21/02/2025

4. **Application no: 202521018094**

Title: An Antimicrobial PAMAM Dendritic Schiff Base Compound

Filing date: 28th Feb 2025

Published date: 14/03/2025

5. **Application no: 202522018115**

Title: An Antimicrobial PAMAM Dendritic Schiff Base Compound Compound (Divisional)

Filing date: 28th Feb 2025

Published date: 14/03/2025

Oral/Paper Presentations

1. Presented paper entitled **"Synthesis and Applications of PAMAM dendrimer"** at International Conference on Innovative Trends in Natural and Applied Sciences-2021 (ICITNAS-2021) organized by Mahatma Gandhi College of Science, Dist.- Chandrapur, dated August 17-18, 2021.
2. Presented paper entitled **"PAMAM-based dendritic materials for the removal of heavy metals from Wastewater"**, at Interdisciplinary National Conference on Biodiversity and Wildlife Conservation through Tribes of India-2023 (BWCTI-2023) organized by Mahatma Dr. Ambedkar College of Arts, Commerce and Science, Chandrapur, Dist.- Chandrapur, dated January 27-28, 2021.
3. Presented paper entitled **"Catalytic application of PAMAM Based Magnetic Nanoparticles in Organic Synthesis"** at Two day International Conference on Frontiers of Chemical Sciences-2023 (ICFCS-2023) organized by Lokmanya Tilak Mahavidyalaya, Wani, Dist.- Yawatmal, dated August 23-24, 2023.
4. Presented paper entitled **"Application of Dendritic Materials for Removal of Heavy Metals"** at International Interdisciplinary Conference on Tourism, Biodiversity, Conservation and Development-2023 (ICTBCD-2023) organized by Janata Mahavidyalaya, Chandrapur, Dist.- Chandrapur, dated December 26- 27, 2023.
5. Presented paper entitled **"Multifunctional PAMAM Dendrimer and its Application"** at National Conference on Role of Arts, Commerce & Science Fostering Sustainable Development of Society organized by Smt. Rajkamal Baburao Tidke Mahavidyalay in association with Society for Technologically Advanced Materials of India(STAMI) Mouda, Dist.- Nagpur, dated October 28-29, 2023. Received **Young Scientist Award**.
6. Presented paper entitled **"Advanced dendritic materials for removal of water contaminants"** at International Conference on Functional Materials -2024 (ICFM-2024) organized by Nabira Mahavidyalaya, Katol, Nagpur in association with Association of Chemistry Teachers (ACT), Mumba, dated March15-16, 2024.

Award(s):

- Young Scientist Award, National Conference conducted by Smt. Rajkamal Baburao Tidke Mahavidyalay in Association with Society for Technologically Advanced Materials of India (STAMI), Mouda-Nagpur, India.
- Chairman of Organizing Committee of International Conference ICITNAS-2021.

Strength & Skills:

- Superior ability to achieve immediate and long-term goal.
- Self-motivated and strong interpersonal skills.
- Excellent written and oral communication ability with managerial skill.
- Hardworking and leadership skills.
- Fast learner, Flexible, Good work Ethic, Ability to work well in a team or individual environment, self confidence, Dynamism, curiosity to learn, and High Degree of Adaptability to new Environment.
- Positive attitude.

Declaration

I hereby declare that the details furnished above are true to the best of my knowledge.

Place: Chandrapur.

Mr. Ramkrishna Y. Patle