Curriculum Vitae

Personal details :

- **NAME** : **Dr. Rajendra Pundlikrao Pawar**
- **DATE OF BIRTH** : 11th January 1961
- **Gender** : Male
- **NATIONALITY** : Indian
- **MARTIAL STATUS** : Married
- **CURRENT ADDRESS** : **Principal**
  M. S. P. Mandal's
  Shiv Chaatrapati College,
  Aurangabad (MS) India.

EDUCATIONAL QUALIFICATION:

- **Post Doctoral Fellow:** Worked as postdoctoral fellow under the guidance of **Prof. Avi Domb**, Hebrew University of Jerusalem, Isreal from May 2003 to Feb. 2004.
- **Ph. D. (1998):** Swami Ramanand Teerth Marathwada University Nanded. Title of the Thesis "**Study of Schiff bases**".
- **M. Sc. (1988):** Passed with first class in 1988 with subject as **Organic Chemistry.** Dr. B. A. M. University, Aurangabad, MS, India.
- **B. Sc. (1982):** Passed with first class in 1982 with subject **Chemistry, Botany and Zoology.** Dr. B. A. M. University, Aurangabad, MS, India.

- **Prominent Collaborations:**
  1. Israel
  2. Hungary
  3. South Africa
  4. China

- **Teaching Experience:**
  - D.S.M. College of Arts, Science and Commerce, Parbhani since July 1989 to 17th December 2008.
  - Deogiri College, 18th December 2008 till date
  - **30** Years Teaching Experience to **Under-Graduate** Classes.
  - **28** Years Teaching Experience to **Post-Graduate** Classes.

- **RESEARCH EXPERIENCE:**
  - **18** years research experience in the Department of Chemistry, Dnyanopasak College, Parbhani.
  - **09** years research experience in the Department of Chemistry, Deogiri College, Aurangabad.
  - **Ph. D.: 15 Students Awarded**

NATURE OF THE WORK:

- Synthesis of some heterocyclic compounds and tested their biological screening.
- Synthesis of Schiff Bases, 4- Thiazolidinones, and 2-Azitidinones and their antibacterial, antifungal activity.
- Synthesis of newer derivatives of 5- Imidazolones, Oxazolones, pyrazolines, Benzisoxazoles, etc.
- Synthesis of sulfonamide derivatives and their biological activity.
- Phytochemistry

Areas of Interest:

1. In Novel Synthetic Methods.
2. In Green and Reusable Catalyzed Organic Transformations.
3. In Ionic Liquid Mediated Organic Transformations.
4. In Various Heterocyclic Compound Synthesis.
5. Phytochemistry.

Additional Activities:

1. Editorial Board Member, ***Open Chemistry Journal,*** Bentham Publication, United Kingdom.
2. Editorial Board Member, ***The Open Medicinal Chemistry Journal,*** Bentham Publication, United Kingdom.
3. Editorial Board Member, ***The Open Chemical Engineering Journal,*** Bentham Publication, United Kingdom.
4. Editorial Board Member, ***Journal of Pharmaceutical and Analytical Chemistry,*** Science Forecast Publisher, USA.
5. Editorial Board Member, ***Organic & Pharmaceutical Chemistry Letters,*** Esra Publication, India.
6. Editorial Board Member, ***European Chemical Bulletin Journal,*** Deuton-X Ltd., Publication, Hungary.
7. Editorial Board Member, ***The Open Conference Proceeding Journal,*** Bentham Publication, United Kingdom.
8. Editorial Board Member, ***World Research Journal of Combinatorial Chemistry***, Bioinfo Publications.
9. Editorial Board Member, ***Research Journal of Physical and Applied Sciences,*** Wudpecker Research Journals Publications.
10. Editorial Board Member, ***Journal of Advanced Scientific Research,*** Scienceage Publications.
11. Editorial Board Member, ***The Open Catalysis Journal,*** Bentham Publication, United Kingdom.
12. Recognized Ph. D. Guide in Chemistry of S. R. T M. University, Nanded.
13. Recognized Ph. D. Guide in Chemistry of Dr. B. A. M. University, Aurangabad.
14. BOS Member in Chemistry of Dr. B. A. M. University, Aurangabad.

Books / Chapters Published:

1. Biological role of chalcones in medicinal chemistry, Sunil Tekale, Samson Mashele, Ofentse Pooe, Shivaji Thore, Pravin Kendrekar and **Rajandra Pawar**, *Vector-Borne Diseases: Recent Developments in Epidemiology and Control,* DOI: http://dx.doi.org/10.5772/intechopen.91626, **2020**.
2. Synthesis of Fluorinated Heterocycles by Multicomponent Reactions, Sandip S. Shinde, S. N. Thore, K. L. Ameta and **Rajendra P. Pawar**, *Multicomponent Reactions: Synthesis of Bioactive Heterocycles,* CRC Publication, 2017, **(ISBN 9781498734127).**
3. Synthesis of functionalized piperidine derivatives based on multi-component reaction, Padmakar Suryavanshi, Vijaykumar Paike, Sandeep More, Sandeep Mane, K. L. Ameta and **Rajendra Pawar,** *Multicomponent Reactions: Synthesis of Bioactive Heterocycles,* CRC Publication, 2017, **(ISBN 9781498734127).**
4. Nanotechnology for Water Purification: Applications of Nanotechnology Methods in Wastewater treatment, Konda Reddy Kunduru, Michael Nazarkovsky, Shady Farah, **Rajendra P. Pawar**, Arijit Basu, Abraham J. Domb, *Nanotechnology for Water Purification,* Elsevier Publication, 2017.
5. New Strategies for Bioactive Heterocyclic Compound Synthesis, Scholar's Press, Germany, 2016, **(ISBN No. 978-3-659-84249-8**).
6. Natural Heterocycles: Extraction and Biological Activity,Nova Publishers, New York, January 2015**,**(eBook)**(ISBN No. 978-1-4-63463-462-5**).
7. Imidazolium Ionic Liquids: An Environment- Friendly Medium for Various Applications, Satish A. Dake, Swapanil R. Sarda, Rajendra P. Marathe, Rajesh B. Nawale, Uday A. Deokate, Somshekhar S. Khadabadi and **Rajendra P. Pawar**, *Green Chemistry: Synthesis of Bioactive Heterocycles,*Springer, 2014, **(ISBN No. 978-81-322-1849-4**).
8. Ammonium- and Phosphonium-Based Ionic Liquid: Green and Reusable Catalysts, *Green Chemistry: Synthesis of Bioactive Heterocycles*, Swapanil R. Sarda, Sunil K. Wasmatkar, Wamanrao N. Jadhav, Satish A. Dake, Anjan S. Sawale, Niteshkumar S. kaminwar, Suresh U. Shisodia and **Rajendra P. Pawar**, Springer, 106-120, 2014, **(ISBN No. 978-81-322-1849-4)**.
9. Antibiotics Delivery for Treating Bone Infections, *Focal Controlled Drug Delivery,* W. Khan, VGS Challa, **R. P. Pawar**, M. Nyska, Y. S. Brin, A. J. Domb, Springer, 459-472,2014,**(ISBN No. 978-14-614-9433-1)**.

10. Edited Book **Progressive Chemistry for B.Sc. Ist Year**, Educational Publication, Aurangabad, 5th September 2013 **(ISBN- 978-93-80876-43-6).**
11. Edited Book **Bioactive Heterocycles: Synthesis and Biological Evaluation,** Nova Science Pub Inc, December 20, 2012 **(ISBN-13: 978-1-6225-7636-4).**
12. **Chalcones: The bioactive molecules,** "*The Biochemistry of Chalcones",*Lap Lambert Academic Publishing AG and CompanyGermany,2011 **(ISBN 13: 978-3-8443-2258-3)**.
13. **Medicinal Applications of Cyanoacrlate, "**Biodegradable Polymers in Clinical Use and Clinical Development", Wiley Publication, Germany, 2011 **(ISBN-13: 978-0-4704-2475-9).**
14. **Injectable Polymers for Regional Drug Delivery,** "Targeted Delivery of Small and Macromolecular Drugs"CRC Press, USA, 2010 **(ISBN-13: 978-1-4200-8772-7).**
15. **Polysaccharides as Carriers of Bioactive Agents,** "Handbook of Natural-based Polymers for Biomedical Applications"Woodhead Publishing Limited,U.K. 2008 **(ISBN-10: 1-42007-607-8).**

    Polymeric Carriers for Regional Drug Therapy, "*Smart Polymers*"CRC Publication, USA, 2007 **(ISBN No. 978-0-8493-9161-3).**
16. **Toxicity Concerns of Nanoparticles,***"Nanoparticles for Pharmaceutical Applications"* American Scientific Publishers, USA, 2007 **(ISBN No. 1-58883-089-6).**
17. **Nanoparticles for crossing biological membranes,***"Biological and Pharmaceutical Nanomaterials"* Willey Publication, Germany, 2007 **(ISBN No. 978-3-5273-1382-2).**
18. **Step-Growth and Ring-Opening Polymerization,** *"Biomaterials for Delivery and Targeting of Proteins and Nucleic acids",* CRC Publication, USA, 2004 **(ISBN No. 978-0-8493-2334-8).**

List of Published Articles:

1. Solvent-Free Synthesis of 1, 4 Dihydropyridines Derivatives via Hantzsch Reaction Employing $MgFe_2O_4$ MNPs: An Efficient and Recyclable Heterogeneous Catalyst RM Borade, SB Kale, PP Khirade, KM Jadhav, **RP Pawar** Journal of Inorganic and Organometallic Polymers and Materials, 1-17, **2023**.
2. Synthesis, characterization, anti-proliferative evaluation, and molecular docking study of some new N-(1, 3-dioxoisoindolin-4-yl) acetamide derivatives. H Narode, M Gayke, RS Bhosale, KR Kharat**, R Pawar**, JS Yadav Journal of Heterocyclic Chemistry 60 (10), 1727-1737, **2023**.
3. An Overview of Palladium-Catalyzed Fabrication of Some Heterocyclic Frameworks AP Devi, KL Ameta, A Penoni, VR Akhmetova, **RP Pawar**, I Fatimah Mini-Reviews in Organic Chemistry 20 (5), 455-482, **2023**.
4. Rapid Access to Pyrano [2, 3-d] pyrimidines Using Microwave Assisted [EMIM][OH] Catalysis VP Pagore, PN Bajad, SU Tekale, BD Rupnar, SV Pawar, **RP Pawar** Organic Preparations and Procedures International, 1-5, **2023**.
5. Microwave-Assisted, Solvent Free, One Pot Synthesis of Novel Bioactive Imidazolyl-Pyrazole derivatives catalyzed by Mesolite type Natural Zeolite S Dhotre, G Pawar, **R Pawar**, S Vaidya **2023**.
6. Synthesis and Biological Study of Novel Schiff Base (1-(3-(4-fluorophenyl)-1-isopropyl-1H-indol-2-yl) methylene) hydrazine) Ligand and Metal Complexes. NR Joshi, SG Mule, VA Gore, RD Suryawanshi, GT Pawar, SR Bembalkar, **R. P. Pawar** Journal of Exploratory Research in Pharmacology 7 (4), 202-207, **2022**.
7. Synthesis of naphthalimide derivatives bearing benzothiazole and thiazole moieties: In vitro anticancer and in silico ADMET study PD JawalePatil, K Bhamidipati, MG Damale, JN Sangshetti, N Puvvada, **R. P. Pawar** Journal of Molecular Structure 1263, 133173, **2022**.
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9. An efficient and rapid synthesis of 1, 4-dihydropyrano [2, 3-c] pyran and 1, 4-dihydropyrano [2, 3-c] quinoline derivatives using copper nanoparticles grafted on carbon NS Kaminwar, SU Tekale, RU Pokalwar, L Kótai, **RP Pawar** Polycyclic Aromatic Compounds 42 (7), 4635-4643, **2022**.
10. COVID-19 Global Pandemic Fight by Drugs: A Mini-Review on Hope and Hype

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14. Vanillin containing 9H-fluoren sulfone scaffolds: Synthesis, biological evaluation and molecular docking study Hanuman Narode, Manoj Gayke, Rajesh S Bhosale, Gyanchander Eppa, Nisarg Gohil, Gargi Bhattacharjee, Vijai Singh, **Rajendra P Pawar**, Dhanaji P Rajani, Jhillu Singh Yadav, Results in Chemistry, 100269, **2022**.
15. A green protocol for the synthesis of α-amino phosphonates catalyzed by orange peel powder SS Ghodke, PM Khandare, RD Ingle, **RP Pawar** Letters in Applied NanoBioScience 11 (1), 3175, **2022**.
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19. Synthesis of imidazo [1, 2-a] pyridine derivatives using copper silicate as an efficient and reusable catalyst Ajit Dhas, Satish Deshmukh, Dattatraya Pansare, Rajendra Pawar, Gopal Kakade, *Letters in Applied NanoBioscience* 10(3), 2565- 2570, **2021.**
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21. Benzopyranyl phosphonate and β-phosphono malonates derivatives: An exciting breakthrough in chemistry SU Deshmukh, JN Sangshetti, SV Bhosale, **RP Pawar** *Chemistry Select* 6 (4), 617-629, **2021**.
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23. Temperature-limited synthesis of copper manganites along the borderline of the amorphous/crystalline state and their catalytic activity in CO Oxidation. Hanna E Solt, Péter Németh, Miklós Mohai, István E Sajó, Szilvia Klébert, Fernanda Paiva Franguelli, Lara Alexandre Fogaca, **Rajendra P Pawar**, László Kótai *ACS omega* 6(2), 1523-1533, **2021**.
24. Synthesis and biological evaluation of novel thiazole hydrazines as antimicrobial and antimalarial agents VA Gore, SU Tekale, SP Bhale, DP Rajani, AJ Domb, RP Pawar *Letters in Applied NanoBioScience* 10, 1846-1855, **2021**.
25. Synthesis of pyran annulated heterocyclic compounds under catalyst free conditions using aqueous ethylene glycol Sushama S. Kauthale, Sunil U. Tekale, László Kótai, Pravin S. Kendrekar & **Rajendra P. Pawar** *Organic Preparations and Procedures International* https://doi.org/10.1080/00304948.2020.1812360 (Article online).
26. Pyridine and benzoisothiazole decorated vanillin chalcones: Synthesis, antimicrobial, antioxidant, molecular docking study and ADMET properties. P Pathare, S Tekale, R Shaikh, M Damale, J Sangshetti, D Rajani, **R. Pawar**, *Current Organic Synthesis* 17 (5), 367-381, **2020**.
27. Lemon Peel Powder: A Natural Catalyst for Multicomponent Synthesis of Coumarin DerivativesGD Jadhav, TAP Mujawar, SU Tekale, RP Pawar, YW More, *Current Organocatalysis* 7 (2), 140-148, **2020.**
28. Synthesis, characterization and antimicrobial evaluation of 3d transition metal Co(II), Ni(II), Cu(II) & Zn(II) complexes derived from 4-[(2-hydroxy-3-methoxyphenyl)methyleneimino]-3*H*-1,2,4-triazole-3-thione. Someshwar P. Bhale,

Sunil U. Tekale, Aparna S. Taware and **Rajendra P. Pawar,** *Journal of Advanced Scientific Research* 11(2), 29-33, **2020**.

29. COVID-19: A global pandemic, Swapnil R. Sarda, Sunil U. Tekale, László Kótai, Abraham J. Domb and **Rajendra P. Pawar,** *Eur. Chem. Bull., 9(8),* 266-272, **2020.**
30. Eco-friendly Synthesis of 1, 4-Dihydropyrano-[2,3-c] Pyrazoles Using Copper Nanoparticles Grafted on Carbon Microsphere as a Heterogeneous Catalyst, Nitishkumar S. Kaminwar, Sunil. U. Tekale, Anil B. Chidrawar, László Kótai and **Rajendra P. Pawar**, *Letters in Applied NanoBioscience*, *9(4),* 1521-1528, **2020.**
31. Synthesis, Characterization and Antimicrobial Activity of Ni(II), Zn(II), and Cd(II) Complexes of 3/4-Bromo-Benzoic Acid (Phenyl-Pyridine-2-yl-Methylene)-Hydrazide Ligand, Someshwar Bhale, Vishnu Gore, Sunil Tekale and **Rajendra P. Pawar**, *Letters in Applied NanoBioscience*, *9(4),* 1529-1537, **2020.**
32. One-pot synthesis of pyrano[2,3-*c*]pyrazoles using lemon peel powder as a green and natural catalyst**,** Swati S. Ghodke, Sunil U. Tekale, Rashmi D. Pathrikar, Priya M. Khandare, László Kótai and **Rajendra P. Pawar,** *Eur. Chem. Bull. 9(2),* 38-42, **2020.**
33. Synthesis of plastic pyrolysis oil and its emissions in IC engine, Bhawna N. Vispute, Sunil U. Tekale, Mukesh N. Naik, Suresh N. Patel and **Rajendra P. Pawar**, *IJGHC, 9(2),* 166-173, **2020**.
34. Separation and quantification of structurally similar impurities by HPLC method of vortioxetine hydrobromide-An antidepressant drug, Shashikant B. Landge, Sunil B. Dahale, Sachin J. Devadhe,Dattatray G. Deshmukh, Pavankumar V. Solanki, Sanjay A. Jadhav, László Kótai, Saroj R. Bembalkar, and **Rajendra P. Pawar,** *Eur. Chem. Bull., 9(4),* 114-118, **2020.**
35. Synthesis and anti-proliferative screening of newthiazole compounds, J. P. Sonar, S. D. Pardeshi, S. A. Dokhe, K. R. Kharat, A. M. Zine, László Kótai, **R. P. Pawar** and S. N. Thore, *Eur. Chem. Bull. 9(5),* 132-137, **2020.**
36. One pot synthesis of 3, 4-dihydropyrimidine-2(1H)-thiones using orange peel powder under ultrasonic irradiation Swati S. Ghodke, Sunil U. Tekale, Rashmi D. Pathrikar, Rajiv R. Dixit, Mukesh N. Naik, **Rajendra P. Pawar,** *Eur. Chem. Bull. 9(1),* 919 – 923, **2020.**
37. Synthesis of some novel and potent anti-plasmodial aminoalkyl chalcone derivatives, Pravin Kendrekar, Samson Mashele, Sunil Tekale, **Rajandra Pawar**, *Biointerface Research in Applied Chemistry,10(5),* 6076- 6081, **2020**.
38. Spinel zinc ferrite nanoparticles: an active nanocatalyst for microwave irradiated solvent free synthesis of chalcones, Ravikumar M. Borade, Sandeep B. Somvanshi,

Swati B. Kale, **Rajendra P. Pawar** and K. M. Jadhav, *Mater. Res. Express, 7,* 016116, **2020**.

39. Thermal decomposition and spectral characterization of di[carbonato tetraammine cobalt(III)] sulfate trihydrate and the nature of its thermal decomposition products, Fernanda Paiva Franguelli, Berta Barta-Hollo, Vladimir M. Petruševski, Istvan E. Sajó, Szilvia Klébert, Attila Farkas, Eszter Bódis, Imre Miklós Szilágyi, **Rajendra P. Pawar** and László Kótai, *Journal of Thermal Analysis and Calorimetry*, https://doi.org/10.1007/s10973-020-09991-3, **2020**.
40. Synthesis, characterization and biological screening for antifungal, antimalarial and antitubercular activities of novel bis-imines and their metal complexes, Gayakwad DR, Sarda SR, Tekale SU, Nawale RB, Rajani D, Bharad JV, **Pawar RP**, *Journal of Medicine and Medical Sciences,11(1),* 14-21, **2020**.
41. Zinc Triflate: Avaluable heterogeneous catalyst for the synthesis of pyrano pyran derivatives, Kaminwar N. S., Nakkalwar S. L., Kasralikar H. M., Patwari S.B., Ranga Ratnam, Tekale S. U. and **Pawar R. P.,** *JETIR, 7(3),* 183-185, **2020**.
42. Pyridine and benzoisothiazole based pyrazolines: synthesis, characterization, biological activity, molecular docking and ADMET study, Pintu G. Pathare, Sunil U. Tekale, Manoj G. Damale, Jaiprakash N. Sangshetti, Rafique U. Shaikh, László Kótai and **Rajendra P. Pawar**, *Eur. Chem. Bull., 9(1),* 10-21, **2020**.
43. Synthesis of α-amino phosponates using lemon peel powder as an efficient catalyst, Priya M. Khandare, Swati S. Ghodke, Rajiv R. Dixit, Rajita D.Ingle and **Rajendra P. Pawar**, *JETIR, 7(3),* 30-34, **2020**.
44. A naphthalimide-benzothiazole conjugate as colorimetric and fluorescent sensor for selective trinitrophenol detection, Pramod D. Jawale Patil, Rajita D. Ingle,Sopan M. Wagalgave, Rajesh S. Bhosale, Sidhanath V. Bhosale, Rajendra P. Pawar, and Sheshanath V. Bhosale, *Chemosensors,* 38(*7),* doi:10.3390/chemosensors7030038,**2019.**
45. A one pot three-component synthesis of spirooxoindoles using cu-nanoparticles grafted on carbon microspheres as catalyst, N. S. Kaminwar, S. B. Patwari, Santosh P. Goskulwad, Santosh D. More, Sanjay K. Vyawahare, T. Pasinszki, L. Kotai, and **R. P. Pawar,** *Eur. Chem. Bull. 8(5),* 153-159, **2019**.
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Jayant Sona, Sandeep Pardeshi, Shrikant Dokhe, **Rajendra Pawar,** Kiran Kharat, Ashok Zine,
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