PROFORMA FOR BIO-DATA

Name: Dr. Sushilkumar Ashokrao Dhanmane

Present Position: Professor, Department of Chemistry

Institution: Deccan Education Society's Fergusson College (Autonomous), Pune - 411004, Maharashtra, India.

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Contact Number: 020-67656194

Gender:- Male

Date of Birth:- 25/07/1981

Languages Known: English, Hindi, Marathi

FIELD OF SPECIALIZATION & RESEARCH GUIDANCE

Areas of Interest: Design and Synthesis of heterocyclic molecules using various biological and nanocatalyst as well as total organic synthesis.

Research Guide Status: Recognized Research Guide for Ph.D. in Chemical Sciences.

Guidance:- 3 students awarded Ph.D. degree.

Presently Guide for 03 three students and co-guide for 05 students

Courses Taught: Spectroscopy, Stereochemistry, Organic Reaction Mechanism, Advance Organic Chemistry, Organic and Inorganic Chemistry, Analytical Chemistry, Perycyclic Reactions.

ACADEMIC QUALIFICATIONS

Sr.	Degree	Year	Subject	University / Institution	% Marks
1	B. Sc.	2002	Chemistry	Pune University	82%
2	M.Sc.	2004	Org. Chemistry	Pune University	70%
3	MH-SET	2004	Chemical Science	SPPU (as a State Agency)	-
4	Ph. D.	2015	Synthesis of various heterocyclic compounds by using various catalyst	Dr. BAMU Aurangabad	-
5	Event Management	2014	Event Management	NIEM	A+
6	Psychological Counselor	2023	Counselling Psychological	Dr.DYS Institute.	A+

- **Ph.D. Thesis Title:** “Synthesis of various heterocyclic compounds by using various catalyst”
- **University Center:** Dr. Babasaheb Ambedkar Marathwada University Campus, Chhatrapati Sambhajinagar, Maharashtra - 431001
- **Year of Award:** 2015

WORK EXPERIENCE

Sr.	Positions Held	Name of the Institute	From	To
1	Professor	Fergusson College (Autonomous), Pune	31/07/2025	Till Date
2	Associate Professor	Fergusson College (Autonomous), Pune	28/06/2021	31/07/2025
3	Assistant Professor	Fergusson College, Pune	01/04/2005	28/06/2021

DETAILS OF GRANTED PATENTS

1. Novel 1,2,3-Triazole-Linked 4-Phenylpiperazine Derivatives, Pharmaceutical Compositions Thereof, and Their Antimicrobial Applications

Inventors: Pooja Jagannath Yadav, Dr. Meenakshi Suresh, Dr. Sushilkumar Ashokrao Dhanmane, Dr. Sharad Keshav Pasale

Patent No: 36/2026 | Award Date: 04/09/2026 | Country: India (Granted)

2. Novel Composition Of N-Methylpyridinium Methylsulfate As A Reaction Medium For The Synthesis Of Derivatives Of 3,3'-(Phenylmethylene)Bis(1h-Indole)

Patent No: - | Award Date: 26/05/2025 | Country: Germany (Granted)

3. Method for synthesizing pyrimidine derivatives and their antimicrobial and antioxidant applications

Inventors: Sushilkumar Dhanmane, Kalpesh Sawant, Hrishikesh Gupta, Gaurav Gupta, Chandrakant Sarode, Yogesh Marathe

Patent No: 41/2024 | Award Date: 11/10/2024 | Country: India (Granted)

4. An effective valorisation of n-methylpyridiniummethylsulfate as a reaction medium towards the synthesis of biologically important derivatives of 3,3'-(phenylmethylene)bis(1h-indole)

Inventors: Kalpesh Sawant, Gaurav Gupta, Sushilkumar Dhanmane, Chandrakant Sarode, Yogesh Marathe

Patent No: 03/2024 | Award Date: 19/01/2024 | Country: India (Granted)

5. Authentication of plant materials for cosmetic applications based on botanical, molecular, and chemical techniques

Inventors: Vinod Jogdand, Kalpesh Sawant, Gaurav Gupta, Sushilkumar Dhanmane

Patent No: 01/2024 | Award Date: 05/01/2024 | Country: India (Granted)

6. Portable Microwave based catalytic synthesiser

Inventors: Shriram Shinde, Dr.Aditya Waghmode, Dhanaji Khot, Anil Baswat, Nitin Gore, Dr. Santosh Kambale, Dr. Sushilkumar A. Dhanmane

Patent No: 495578-001| Award Date: 20/03/2026 | Country: India (Granted)

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“SYNTHESIS OF SUBSTITUTED PYRIMIDONES VIA [mPyr] [MeSO4] Mediated Condensation”A Green Chemistry Approach to Heterocyclic Synthesis”

COPYRIGHT Application No: LD-29846/2026-CO Award Date: 25/06/2026 | Country: India (Granted)

PUBLICATIONS (SCI JOURNALS)

1. S.A. Nirwan, S.A. Shinde, R.A. Ughade, V.B. Tadke, S.A. Dhanmane. Green Synthesis, Characterization, and Antimicrobial Evaluation of 2-Amino-4H-Benzopyran Derivatives Using Coconut Seed Coat Ash as a Catalyst. Asian Journal of Green Chemistry, 2025, 9(3), 291-309.

2. S.A. Shinde, O.K. Patil, M.M. Rajmane, S.A. Nirwan, R. Ughade, S.A. Dhanmane. Green Synthesis of CuO Nanoparticles from Peltophorum pterocarpum Fruits: An Efficient Nanocatalysis for Synthesis of Benzothiazole Derivatives with Enhanced Antimicrobial Properties. Journal of Applied Organometallic Chemistry, 2025, 4(3), 233-246.

3. R. Ughade, S.A. Shinde, N. Waghmare, S.A. Nirwan, S.A. Dhanmane. Green Synthesis and Antibacterial Evaluation of Novel Chalcone Derivatives Catalyzed by Sterculia Extract. Journal of Applied Organometallic Chemistry, 2024, 5(1), 1-12.

4. K.C. Sawant, C.H. Sarode, Y. V. Marathe, G.R. Gupta, S.A. Dhanmane. Thermo-Gravimetric Studies and Specific Heat Capacity Estimation of the products of Biginelli Reaction using TGA-DSC. Current Physical Chemistry, 2024.

5. K.C. Sawant, C.H. Sarode, Y. V. Marathe, G.R. Gupta, S.A. Dhanmane. N-Methylpyridinium Methyl Sulfate: An Exceptional Reaction Medium for the Room Temperature Synthesis of Substituted Pyrimidinones via Biginelli Reaction. Russian Journal of Organic Chemistry, 2024, Vol. 60, No. 3, pp. 122–131.

6. Nayan Waghmare, Amardeep Jagtap, Rajendra Ughade, S.A. Dhanmane. Efficient Click Chemistry Towards Novel Some Substituted 2-Amino-4Aryl-7 Propargyloxy-4H-Chromene-3Carbonitriles: Design, Synthesis and Evalution of in Vitro Antibacterial, Cytotoxic and Antifungal Activities. Journal of Chemical Health Risks, 2023, 13(6), 2939-2946.

7. S. P. Tajane, G.V.R Sharma, S.A. Dhanmane, Ganga Gore. Synthesis, Characterization and Biological Evaluation of Some Novel Pyridopyrimidine Analogues. Asian J. Chem., 2023, Vol. 35, No. 10, 2549-2553.

8. Kalpesh Sawant, Gaurav Gupta, Chandrakant Sarode, Yogesh Marathe, Sushilkumar Dhanmane. A State-of-the-Art Valorization of Molten Tetrabutylammonium Bromide in the

Synthesis of Ionic Liquids. Russian Journal of Organic Chemistry, 2023, Vol. 59, Suppl. 1, pp. S74–S83.

9. Priya Belavale, S.A. Dhanmane, Shirish Patil. Spectral Studies on 3-[2-(Hydroxyimino)-1, 2-Diphenylethylidene] Hydrazinylidene} Methyl] Phenol Complexes of Trivalent Lanthanides. Asian Journal of Organic & Medicinal Chemistry, 2022, Vol. 7, No. 2.

10. Sushilkumar Dhanmane, Kalpana Jain, Priya Belavale, N.K. Mandal. Magnetic, Physico-Chemical and Spectral Studies on Benzilmonoximehydrazone-M-Hydroxybenzaldehyde and Complexes of Trivalent Lanthanides. Asian Journal of Organic & Medicinal Chemistry, 2022, Vol. 7, No. 2.

11. Sandip Nirwan, Mukesh Kadam, Shriram Shinde, Vivekanand Jawale, Sushilkumar Dhanmane. Exploring the Potential of Xanthene Derivatives in Medicinal Chemistry: A Review. IJARSCT, 2022, Volume 2, Issue 4, 30-44.

12. Shivanand Gajre, Audumbar Patil, Shankar Hangirgekar, Sushilkumar Dhanmane, Gajanan Rashinkar. Green synthesis of quinolines via A3 coupling by using graphene oxide-supported Brønsted acidic ionic liquid. Research on Chemical Intermediates, 2020.

13. Samadhan Nagane, Savita Varma, Bhausaheb Tawade, Prakash Sane, Sushilkumar Dhanmane, Prakash Wadgaonkar. Aromatic polyesters containing pendant azido groups: Synthesis, characterization, chemical modification and thermal cross-linking. European Polymer Journal, 2019.

14. Sushilkumar Dhanmane, Raju Kagne, Wilson Chandane. Graphene Oxide: A Versatile and Reusable Solid Acid Heterogenous Catalyst for the Synthesis of 3-Pyranyl Indole Derivatives. IJRAR, 2019.

15. Samadhan Nagane, Sachin Kuhire, Uday Jadhav, Sushilkumar Dhanmane, Prakash Wadgaonkar. Design and Synthesis of Aromatic Polyesters Bearing Pendant Clickable Maleimide Groups. Journal of Polymer Science Part A: Polymer Chemistry, 2018.

16. Sushilkumar Dhanmane, Faisal A. Salih. Isolation of Karanjin from Pongamia Pinnata and Its Identification by Different Analytical Techniques. Kurdistan Journal of Applied Research (KJAR), 2018.

17. Raju Kagne, B.V. Tamhankar, Sushilkumar Dhanmane. Manganese Magnesium Oxalate Reusable and Green Catalysts for the Synthesis of Quinolines and Dihydropyrimidine Derivatives. IJCPS, 2018, 7.

18. R. Kagne, S. A. Dhanmane. A Novel and Green Route for Synthesis of Pyrazoline Derivatives in an Aqueous Media by using Ionic Liquid at reflux Condition. IAETSD Journal for Advance Research in Applied Sciences, 2017, 4(7).

19. S.S.Pawar, C.S. Patil, V.B. Tadke, S. M. Vhankate, S.A. Dhanmane, R.P. Pawar. Copper-Nickel Tartarates Composites: A Reusable And Green Catalysts For The Synthesis Of Quinolines And Dihydropyrimidines Derivatives. Eur. Chem. Bull., 2016, 5(6), 221-224.

20. Muralidhar Shingare, Sushilkumar Dhanmane. Simple and Efficient One Pot Solvent Free Synthesis of 3,4-Dihydropyrimidin-2(1H)-Ones and Thiones by using Ionic Liquid at Reflux Condition. Chemistry and Materials Research, 2015, 7(3).

21. Sushilkumar Dhanmane, Muralidhar Shingare. A Novel And Green Route for Synthesis of Pyrazoline Derivatives in an Aqueous Media By Using Ionic Liquid at Reflux Condition. IJSR, 2015.

22. S.S.Pawar, C.S. Patil, V.B. Tadke, S. M. Vhankate, S.A. Dhanmane, G.R. Pathade, R.P. Pawar. Synthesis, Characterization And Biological Activity Of Sometartarates And Transition Metal Complexes. IJPSR, 2014, 5(4), 1557-1565.

23. S. M. Vhankate, S.S.Pawar, S.A. Dhanmane, N.S. Dhavle, Kiran Fulzele, C.S. Patil, R.P. Pawar, V.B. Tadke. Oxalate Ligand Based Synthesis of some Mixed Transition Metal Complexes, Their Characterization and Antimicrobial Activity Studies. SRTMU's Research Journal of Science, 2013.

24. Nilima Chaudhari, Sambhaji Warule, Sushil Dhanmane, Milind Kulkarni, Matjaz Valant, Bharat Kale. Nanostructured N-doped TiO2 marigold flowers for an efficient solar hydrogen production from H2S. Nanoscale, 2013, 5, 9383-9390.

BOOKS AUTHORED

1. Chemistry of some Bioactive Heterocyclic Compounds – Dr. Sushilkumar Dhanmane

2. Organic Spectroscopy – Dr. Sushilkumar Dhanmane