

**Dr. Jadhav Swati Devkumar**

**M. Sc., Ph. D., SET**

Associate Professor in Chemistry,  
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## Personal Information

1. Teaching Experience :
  - UG : 29 Years
  - PG : 16 Years
2. Research Projects : 03 (Minor Research Projects)
3. Research Activity :
  - Publications: 26
  - Citations: 629
  - h-index: 12
  - i10-index: 14
  - Paper Presented in Conferences : 15
4. Ph. D. Research Guide :
  - Shivaji University recognised (since 2021)
  - Four Ph. D. students (working)
5. PG recognised teacher :
  - Shivaji University recognised (since 2009)
6. Author :
  - i. Book Published : One
  - ii. Text Books : B. Sc. I, II and III Chemistry
7. Membership :
  - i. Life Member, Indian Council of Chemist
  - ii. Annual Member, Indian Science Congress Association, Bengaluru, India

## Qualifications

1.	Ph. D.	2013 Title : New synthetic methodologies in organic transformations (Shivaji University, Kolhapur)
2.	SET	2002 Chemical Sciences (Pune University, Pune)
3.	M. Sc.	1994 Chemistry (Specialization : Inorganic Chemistry) (Shivaji University, Kolhapur)
4.	B. Sc.	1992 Chemistry (Shivaji University, Kolhapur)

## Minor Research Projects

Sr. No.	Title	Funding Agency	PI / Co-PI	Duration	Grant /Amount Mobilized (Rs. Lakh)
1.	Designing, Synthesis and Biological Screening of Some New Heterocycles and Their Derivatives	UGC, New Delhi	PI	August 2009 to July 2011	1.95 Lakh
2.	New Methodologies in Organic Transformations Employing Some Natural Acidic and Basic Catalysts.	UGC, New Delhi	PI	February, 2013 to January, 2015.	0.85 Lakh
3.	Utilization of Biobased Material for Organic Transformation	Shivaji University, Kolhapur	Co-PI	2018 to 2020	0.80 Lakh

## Research Publications

1. An eco-friendly approach to synthesize arylmethylene bis(3-hydroxy-5,5'-dimethyl-2-cyclohexene-1-ones) and 1,8-dioxo-octahydroxanthenes.  
Research on Chemical Intermediates, 50, 2519–2531 (2024).
2. Calcined eggshells as a highly efficient catalyst for the synthesis of 2-amino 4H-chromene derivatives.  
Research on Chemical Intermediates, 49, 4805–4817 (2023).
3. Revisit to Henry reaction by non conventional heterogeneous and efficient catalyst for nitroalcohol synthesis.  
Research on Chemical Intermediates, 48, 593–606 (2022).
4. Fruit Extract of Averrhoa bilimbi: A Green Neoteric Micellar Medium for Isoxazole and Biginelli-Like Synthesis.  
Research on Chemical Intermediates, Volume 47, 4369–4398 (2021).
5. Calotropis gigantea leaf derived ZnO nanoparticles: A green protocol for rapid synthesis of 2-amino-4H-chromene derivatives.  
IJRAR June 2019, Volume 6, Issue 2, 615-627.
6. Green And Efficient Synthesis of Tetrahydrobenzo[B]Pyran Derivatives Using Natural Catalyst.  
IJRAR June 2019, Volume 6, Issue 2, 340-345.
7. Modified eggshell catalyzed, one-pot synthesis and antimicrobial evaluation of 1, 4-dihydropyridines and polyhydroquinolines  
Der Pharmacia Lettre, 2015, 7 (12), 169-182.
8. Bronsted acid-type biosurfactant for heterocyclization: a green protocol for benzopyran synthesis  
RSC Adv., 2015, 5, 84610–84620.
9. Citric acid as a mild and inexpensive organocatalyst for the synthesis of tetrahydrobenzo[a]xanthen-11-ones and dibenzo[a,j]xanthenes under solvent free condition.

- Indian Journal of Chemistry Section-B, September 2014, 52B, 1185-1193.
10. Rapid one-pot four component synthesis of bioactive pyranopyrazoles using citric acid as a mild organocatalyst. Archives of Applied Science Research. 2014, 6 (1), 150-158.
  11. Synthesis and antimicrobial screening of some new N3-substituted derivatives of quinazolin-4(3H)-one. J. Indian Chem. Soc., Vol.91, January 2014, 113-116.
  12. An Efficient One-Pot Multicomponent Synthesis of Dihydropyridines by using Succinic Acid as Mild Organocatalyst. Asian Journal of Chemistry, 2013, 25(17), pp 9442-9446.
  13. Calcined eggshell (CES): An efficient natural catalyst for Knoevenagel condensation under aqueous condition. Journal of Chemical Sciences, July 2013, 125, 851-857.
  14. Eco-friendly and economic method for Knoevenagel condensation by employing natural catalyst. Indian Journal of Chemistry Section-B, August 2013, 52B, 1172-1175.
  15. Synthesis and Antimicrobial Activities of New Oxime Carbonates of 3-Aryl-2-thioquinazolin-4(3H)-one. Journal of Chemical Sciences, 2012, 124(5), 1043-1048.
  16. Green Approach for Knoevenagel Condensation of Aromatic Aldehydes with Active Methylene Group. Synthetic Communications, 2012, 42, 1177-1183.
  17. Microwave-assisted Cyclocondensation for the Synthesis of 3-aryl-2-thioquinazolin-4(3H)-ones. Asian Journal of Chemistry, 2012, 24(4), 1858-1860.
  18. Natural Acid Catalyzed Synthesis of Schiff Base under Solvent-free Condition: As a Green Approach. Archives of Applied Science Research, 2012, 4 (2), 1074-1078.
  19. CES as an Efficient Natural Catalyst for Synthesis of Schiff Bases under Solvent-Free Conditions: An Innovative Green Approach. Organic Chemistry International, Volume 2012, Article ID 153159.

20. Pineapple juice as a Natural Catalyst : An Excellent Catalyst for Biginelli Reaction.  
International Journal of Organic Chemistry, 2011, 1, 125-131.
21. Synthesis of Some New 2-Substitued Quinazoline Derivatives.  
J. Indian Chem. Soc 2011, 88, 451-455.
22. Natural Acid Catalyzed Multi-component Reactions as a Green Approach.  
Archives of Applied Science Research, 2011, 3 (1): 203-208.
23. Synthesis and Antimicrobial screening of Pyrazolo-3-aryl quinazolin-4(3H) ones.  
Indian Journal of Pharmaceutical Sciences, 2010, 72(4), 500-504.
24. Cynogen Bromide and Ethylacetoacetate in Heterocyclization : Novel Synthesis of Tetracyclic Derivative of 3-Aryl Quinazolinones.  
J. Heterocyclic Chemistry, 2010, 47, 1144-1147.
25. Synthesis And Antimicrobial Screening of Some New N3-Substituted Derivatives of Quinazolin-4(3H)one.  
Journal of Chemical and Pharmaceutical Research, 2010, 2(4), 623-628.
26. Synthesis of New Triazolo and Pyrazolo derivatives of Benzothiazole.  
Indian Journal of Heterocyclic Chem. 2010, 163-166.

## Books Published

Sr. No.	Title	Year
1.	Inorganic Chemistry B. Sc. II (Paper VII)	2020
2.	Inorganic Chemistry B. Sc. III (Paper IX)	2020
3.	Inorganic Chemistry B. Sc. III (Paper XII)	2021

4. Industrial Chemistry      2021  
B. Sc. III (Paper XVI)