

Name & Designation:

Dr. AKOLKAR HEMANTKUMAR NAVNATH,
Head and Associate Professor,

Rayat Shikshan Sanstha's Abasaheb Marathe Arts and New Commerce,
Science College, Rajapur, Dist- Ratnagiri.



Email: hemantakolkar@gmail.com

Date of Birth: 13/06/1986

Academic Background:

- 1) **Ph.D. Chemistry** (Department of Chemistry, Radhabai Kale Mahila Mahavidyalaya, Ahmednagar affiliated to Savitribai Phule Pune University, Pune, 2017).
- 2) **M.Sc. Organic Chemistry** (Department of Chemistry, S. S. G. M. College, Kopargaon affiliated to Savitribai Phule Pune University, Pune, 2008).
- 3) **B.Sc. Chemistry** (Department of Chemistry, R. B. N. B. College, Shrirampur affiliated to Savitribai Phule Pune University, Pune, 2006).

Awards:

- 1) **Best Co-ordinator of Quality Improvement Programme by Rayat Shikshan Sanstha on the occasion of completion of 100 year.**

Experience Details:

I) Teaching Experience: 14 Yrs

Name of the Institution	From	To	Designation
Radhabai Kale Mahila Mahavidyalaya, Ahmednagar	01/09/2010	28/01/2021	Assistant Professor
Abasaheb Marathe Arts & New Commerce, Science College, Rajapur	29/01/2021	Till date	Associate Professor

II) Research Experience: 12 yrs.

A) Research Schemes: 02 Minor Research Projects

Title of Project	Name of Funding Agency	Duration	Amount
Synthesis and Biological Screening of Some Azoles. (Completed)	UGC, New Delhi	01/04/2012 to 31/03/2014	1,60,000/-
Synthesis and Biological Screening of Some Novel Azoles.(Completed)	BCUD, Savitribai Phule Pune University, Pune	01/04/2015 to 30/03/2017	2,20,000/-

B) Patent:**04 Patents Granted:**

1. *"Pyrazolyl compounds as antimalarial agents"* & application No. 202021019716.
2. *"Substituted 1, 2, 3 Triazole Compounds As Antioxidant Agent"* and application no. 202221061719.
3. *"Substituted Benzofuran Compounds As Antibacterial Agent"*
Patent Application No. 202321028067
4. *"An Improved Process For The Preparation Of 1, 2, 4-Triazole-3-Thiones Derivatives"* Patent No. 552080.

C) Book Published: 02

Sr. No.	Title with Page Nos.	Name of Publishers	ISSN/ISBN No.
1.	S-Heterocycles Retrospect, Prospects, and Biological Applications	The Royal Society of Chemistry	Print ISBN: 978-1-83767-401-5 PDF ISBN: 978-1-83767-485-5 EPUB ISBN: 978-1-83767-486-2
2.	Examining Biological Relevance of Fused S-Heterocycles	IGI Global Scientific Publisher	ISBN13: 979836937520 ISBN13 Softcover: 9798369375211 EISBN13: 9798369375228

D) Book Chapters: 09

Sr. No.	Title of Chapter with Page Nos.	Name of Book	ISSN/ ISBN NO.
1.	Synthesis, Properties, and Biological Applications of 1,3-Thiazoles	S-Heterocycles Retrospect, Prospects, and Biological Applications	Print ISBN: 978-1-83767-401-5 PDF ISBN: 978-1-83767-485-5 EPUB ISBN: 978-1-83767-486-2
2.	Isothiazoles: Synthetic Strategies and Pharmacological Applications		
3.	Synthesis, Properties, and Biological Applications of 2,4-Thiazolidinediones		
4.	Recent Developments in the Synthesis and Biological Applications of Thiazine		
5.	Synthesis, Properties, and Biological Applications of Benzothiophene		
6.	Iron Oxide Nanocatalyst-for Greening Organic Reactions	Green Chemistry for Sustainable Engineering	ISBN (10): 1-0364-0716-0 ISBN (13): 978-1-0364-0716-2
7.	Synthesis, Properties, and Biological Activity of Benzothiadiazine	Examining Biological Relevance of Fused S-Heterocycles	ISBN13: 979836937520
8.	Thienopyrimidines Exploring the Chemistry and Bioactivity		
9.	Benzothiazepine: Recent Advances in Synthesis and Biological Application		

E) **Research Publications: 60** research articles are published in International journals.

a) h-index: **7** b) i10-index: **4** c) Total Citations: **234**

Sr. No.	Name of the research article
1.	Facile and Proficient Synthesis of Some New 1,2,4-Triazole- 3-Thiones Derivatives Using [H ₂ -TMDP] [HPO ₄] Ionic Liquid, <i>Polycyclic Aromatic Compounds</i> , 2024 , 1-17. https://www.tandfonline.com/doi/abs/10.1080/10406638.2024.2432375
2.	Synthesis, Antimicrobial Evaluation, and Computational Study of Novel Fluorinated Benzofuran Derivatives, <i>Russian Journal of Bioorganic Chemistry</i> , 2024 , 50(5), 1710-1723.
3.	New 1, 2, 3-Triazole-Tethered Chalcone Derivatives: Synthesis, Bioevaluation and Computational Study, <i>Polycyclic Aromatic Compounds</i> , 2024 , 44(9), 6232-6247.
4.	Design, Synthesis, Molecular Docking, and Anti-inflammatory Activity of 2-[(E)-{1-[4-(4-Chlorophenyl)-1, 3-thiazol-2-yl]-1H-pyrazol-4-yl}(hydroxyimino) methyl] phenol and {1-[4-(4-Chlorophenyl)-1, 3-thiazol-2-yl]-1H-pyrazol-4-yl}(2-hydroxyphenyl) methanone Derivatives, <i>Russian Journal of Organic Chemistry</i> , 2024 , 60(9), 1730-1743.
5.	Optimized green synthesis of biocompatible Ag nanostructures using Artemisia Indica leaf extract: a promising avenue for biomedical applications, <i>Transition Metal Chemistry</i> , 2024, 1-14. https://link.springer.com/article/10.1007/s11243-024-00608-4
6.	Synthesis, Biological Evaluation, and Computational Study of Novel 1, 2, 3-Triazole-Tethered Chalcone Derivatives, <i>Russian Journal of Organic Chemistry</i> , 2024 , 60(9), 1818-1827.
7.	SYNTHESIS AND CHARACTERIZATION OF NEW THIAZOLYL 1,3,4- OXADIAZOLE AND 1,2,4-TRIAZOLE DERIVATIVES, <i>Heterocyclic Letters</i> , 2024 , 14(2), 255-258.
8.	Investigation of the Anti-inflammatory potential of Mono-carbonyl Analogues of Curcumin, <i>Anal. Chem. Lett.</i> 2022 , 12, DOI: 10.1080/22297928.2022.2132877
9.	Synthesis, Characterization and Biological Evaluation of Thiazole Containing Chromones and Pyrazole Derivatives, <i>Indian Journal of Heterocyclic Chemistry</i> , 2022 , 32(4), 433-438.
10.	Synthesis, Biological Activity, and Computational Study of 1-[5-(4-Methylthiazol-5-yl)-2-phenyl-1, 3, 4-oxadiazol-3 (2H)-yl] ethanone Derivatives, <i>Russian Journal of General Chemistry</i> , 2022 , 92 (8), 1511-1518
11.	SYNTHESIS AND ANTIBACTERIAL SCREENING OF THIAZOLYL PYRAZOLE CONTAINING CHROMONES AND AURONES, <i>Heterocyclic letters</i> , 2022 , 12 (3), 571-576.
12.	SYNTHESIS AND ANTIBACTERIAL SCREENING OF IMIDAZOLE ANCHORED PYRAZOLINES, BENZODIAZEPINES AND CHROMONES, <i>Heterocyclic letters</i> , 2022 , 12 (2), 281-293.
13.	Design, synthesis and characterization of novel fluorinated styryl chromones, <i>Indian Journal of Chemistry (IJC)</i> , 2022 , 61 (2), 225-228
14.	Synthesis and Biological Evaluation of 2-(4,5,6,7-Tetrahydrobenzo[c]isoxazol-3-yl)-4H-Chromen-4-Ones, <i>Polycyclic Aromatic Compounds</i> , 2021 , 1-15. https://doi.org/10.1080/10406638.2021.1982733
15.	Synthesis and Biological Screening of Some New 5,7 -dihydro-4H-thieno[2,3-c]pyran-3-yl containing 1,2,4-Triazoles, 1,3,4-Oxadiazoles, and 1,3-Thiazoles, <i>Indian Journal of Heterocyclic Chemistry</i> , 2021 , 31(2), 177-182.
16.	Synthesis of 3-(trifluoromethyl)-1-(perfluorophenyl) -1H-pyrazol-5(4H)-one derivatives via Knoevenagel condensation and their biological evaluation, <i>Journal of the Chinese Chemical Society</i> , 2021 , 68(4), 657-668.

17.	Microwave Assisted Synthesis, Characterization and Antibacterial Screening of Some Pyrazolone Derivatives, <i>Indian Journal of Heterocyclic Chemistry</i> , 2020 , 30, 355-360.
18.	Synthesis of new thiazole anchored N-Benzylidene carbohydrazide and 1,3,4-Oxadiazole derivatives by conventional and microwave irradiation, <i>Indian Journal of Heterocyclic Chemistry</i> , 2020 , 30(4), 607-613.
19.	Synthesis and antibacterial screening of some new pyrazolylchromones and pyrazolylcoumaran-3-ones, <i>Indian Journal of Heterocyclic Chemistry</i> , 2020 , 30(4), 525-530.
20.	Microwave Assisted Synthesis and Antibacterial Activity of New 1, 3, 4-Thiadiazoles and 1, 2, 4-Triazoles Derived from 2-{2-[(4-Fluorophenyl)-4-methylthiazole-5-yl]-1H-benzo[d]imidazole-1-yl}acetohydrazide, <i>Russian Journal of General Chemistry</i> , 2020 , 90, 1721-1726.
21.	Nanostructured N doped TiO ₂ efficient stable catalyst for Kabachnik-fields reaction under microwave irradiation, <i>RSC Advances</i> , 2020 , 10, 26997-27005.

22.	Design, Synthesis and Biological Evaluation of Novel Furan & Thiophene containing PyrazolylPyrazolines as Antimalarial Agents, <i>Polycyclic Aromatic Compounds</i> , 2020 , https://doi.org/10.1080/10406638.2020.1821231
23.	Microwave Assisted Synthesis and Antimicrobial Activity of Novel 1, 3, 4-Thiadiazoles and 1, 2,4-Triazoles Derived from 2-(3-Fluorophenyl)-4-methylthiazole-5-carbohydrazide, <i>Russian Journal of General Chemistry</i> , 2019 , 89, 1535-1540.
24.	Synthesis and characterization of some benzofuran anchored heterocycles, <i>International Journal of Research and Analytical Reviews</i> , 2019 , 6, 662i.
25.	Conventional and Non-Conventional Synthesis of Novel (4E)-4-((3-(2-(4-fluorophenyl)-4-methylthiazol-5yl)-1-aryl-1H-pyrazol-4-yl)methylene)-3-alkyl--aryl-1H-pyrazol-5(4H)-ones, <i>Journal of Emerging Technologies and Innovative Research</i> , 2019 , 6, 88.
26.	Synthesis and characterization of novel 2-(1-benzyl-3-[4-fluorophenyl]-1H-pyrazol-4-yl)-7-fluoro-4H-chromen-4-one derivatives, <i>Journal of Heterocyclic chemistry</i> , 2020 , 57, 1692-1697.
27.	Synthesis and characterization of nanostructured Cu-ZnO: An efficient catalyst for the preparation of (E)-3-styrylchromones, <i>Arabian Journal of chemistry</i> , 2019 , 12, 5212-5222.
28.	Synthesis and Characterization of Novel 1-Methyl-3-(4-phenyl-4H-1,2,4-triazol-3yl)-1H-indazole Derivatives, <i>Journal of Heterocyclic Chemistry</i> , 2019 , 56, 1780-1786.
29.	Synthesis, characterization and antibacterial screening of fluorinated benzofuran containing heterocycles, <i>Indian Journal of Chemistry</i> , 2019 , 58B, 504-510.
30.	Synthesis and antibacterial screening of 1-(2-(2-chlorophenyl)-2-(4-(6-fluorobenzo[d]isoxazol-3-yl)piperidin-1-yl) containing 1,3,4-thiadiazole, 1,2,4-triazole and 1,3,4-oxadiazole derivatives, <i>International Research Journal of Pharmacy</i> , 2019 , 10(2), 161-165.
31.	synthesis and antibacterial screening of novel (e)-3-(3-(2-(4-fluorophenyl)-4-methylthiazol-5-yl)-1-phenyl-1H-pyrazol-4-yl)-1-(2-hydroxyphenyl)prop-2-en-1-ones, <i>International Research Journal of Pharmacy</i> , 2019 , 10(5), 196-199.
32.	Synthesis and characterization and antimicrobial screening of some new thiazolyl chromones and pyrazoles, <i>Indian Journal of Chemistry</i> , 2019 , 58B, 916-920.
33.	Thiazolyl-pyrazole derivatives as potential antimycobacterial agents, <i>Bioorganic & Medicinal Chemistry Letters</i> , 2019 , 29, 1199-1202.
34.	Synthesis and characterization of chlorinated thiophene based flavones, <i>International journal of chemical and physical sciences</i> , 2018 , 7, 133.
35.	Synthesis of some fluorinated aurones and chromones, <i>Indian Journal of Heterocyclic Chemistry</i> , 2017 , 27, 373-376.

36.	Synthesis of some multihalogenated pyrazolyl benzofurans and benzoxazoles, <i>Indian Journal of Heterocyclic Chemistry</i> , 2017 , 27, 477-481.
37.	Effect of Cd-doping on the catalytic activity of ZnO nanoflakes in the synthesis of benzimidazoles, <i>Research on Chemical Intermediates</i> , 2017 , 43, 7277-7290.
38.	Synthesis and biological screening of some novel thiophene anchored heterocycles, <i>Indian Journal of Heterocyclic Chemistry</i> , 27 (2), 2017 , 179-187.
39.	Synthesis and biological screening of some new thiophene and pyrazole containing styrylchromones and pyrazoles, <i>Indian Journal of Heterocyclic Chemistry</i> , 2017 , 27 (1), 89-97
40.	Synthesis and antimicrobial activity of some novel pyrazolone, <i>Oriental journal of chemistry</i> , 2017 ,33(3), 1304.
41.	Synthesis and characterization of novel fluorinated thiazolyl 1,3,4-thiadiazoles, 1,2,4- triazoles and 1,3-thiazoles by conventional and non-conventional methods, <i>Indian Journal of Chemistry, Section B</i> , 2017 ,56B, 348-355.
42.	Synthesis and characterization of thiazole anchored fluorinated 2-heterylchromones and pyrazoles, <i>Indian Journal of Chemistry</i> , 2017 , 56B, 458.
43.	Synthesis and Antibacterial Screening of 1,3,4-Thiadiazoles, 1,2,4-Triazoles and 1,3,4- Oxadiazoles Containing Piperazine Nucleus, <i>Journal of Heterocyclic Chemistry</i> , 2017 , 54 (2),1355.

44.	Knoevenagel condensation of heteroaromatic aldehydes with 1-phenyl-1 <i>H</i> -pyrazol-5(4 <i>H</i>)-ones, <i>Indian Journal of Heterocyclic Chemistry</i> , 2016 , 26,141.
45.	Conventional and non-conventional synthesis of some novel benzofuran incorporated thiadiazoles and triazoles, <i>Indian Journal of Heterocyclic Chemistry</i> , 2016 , 25,219.
46.	Synthesis and antimicrobial evaluation of some new thiophene anchored chromones, auronones and pyrazoles, <i>Indian Journal of Heterocyclic Chemistry</i> , 2016 ,25, 193.
47.	Synthesis of novel fluorine containing imidazolyl auronones and benzofurans, <i>Indian Journal of Chemistry, Section B</i> , 55B, 2016 , 1243-1247.
48.	Synthesis and antimicrobial evaluation of novel pyridine anchoredthiazolyl 1,3,4-thiadiazole and 1,2,4-triazole, <i>Indian Journal of Heterocyclic Chemistry</i> , 25, 2015 , 87.
49.	Synthesis of novel fluorine and pyridine containing thiazolyl 1,3,4-oxadiazole derivatives, <i>Indian Journal of Heterocyclic Chemistry</i> , 25, 2015 , 97-100.
50.	Synthesis and in vitro biological screening of some benzimidazolyl anchored azoles, <i>Indian Journal of Chemistry B</i> , 54, 2015 , 383-390.
51.	Synthesis and biological screening of some novel fluorinated chromones and auronones, <i>Indian Journal of Chemistry B</i> , 54, 2015 , 434-438.
52.	Synthesis of some novel thiophene containing chromones and auronones, <i>Indian Journal of Heterocyclic Chemistry</i> , 24(3), 2015 , 359-362.
53.	Synthesis and characterization of novel thiazole anchored pyrazolylbenzoxazoles, <i>Oriental Journal of Chemistry</i> , 31(1), 2015 , 431-433.
54.	Synthesis, Characterization and Biological Evaluation of Some Novel Thiophene Anchored Fluorinated Heterocycles, <i>Oriental Journal of Chemistry</i> , 31(1), 2015 , 453-464.
55.	Synthesis and biological screening of some novel fluorinated pyrazolyl compounds, <i>Indian Journal of Heterocyclic Chemistry</i> , 23(3), 2014 , 283-292.
56.	Synthesis and biological screening of some pyrazolines, <i>Indian journal of Heterocyclic Chemistry</i> , 2013 , 22, 319-320.
57.	Synthesis and biological screening of some 2-(4-(pyridin-2-yl)styryl)-4h-chromene-4-ones, <i>Indian Journal of Heterocyclic Chemistry</i> , 20, 373, 2011 .
58.	Synthesis and biological screening of some novel 2-heteryl chromones, <i>Indian Journal of Heterocyclic Chemistry</i> , 20, 377, 2011 .
59.	Synthesis and biological screening of new pyrazolylchromones, <i>Indian Journal of Heterocyclic Chemistry</i> , 20, 381, 2011 .

60. Synthesis and biological screening of some 3-styryl chromones, Indian Journal of Heterocyclic Chemistry, 20, 389, 2011.

F) Papers Presented: 17 research papers are presented in various state, national and International level conferences

Sr. No.	Title of the paper	Name of the conference	Place	Date
1.	Synthesis and characterization of pyridine containing thiazolyl sulphonamides	National conference on "Innovative research techniques in chemical and physical sciences"	S. S. G. M. College, Kopargaon, Ahmednagar	7-8 August 2015
2.	Synthesis and Characterization of thiophene containing thiadiazole by green approach	3 rd International Conference on "Herbal and synthetic drug studies"	Azam Campus, Pune	7-9 January 2016
3.	Green synthesis of thiazole containing fluorinated 1,3,4-thiadiazole	National conference on "Interface between colleges and industry with reference to synthetic organic chemistry and spectroscopy"	R. B. N. B. College, Shrirampur, Ahmednagar	15-16 January 2016
4.	Synthesis, characterization of thiophene anchored 2- heteryl chromone	National seminar on "Recent trends in green chemistry "	Jijamata College of Science, Bhende, Ahmednagar	12-13 January 2016
5.	Environmentally Benign Synthesis of Novel Thianyl 1,3,4-Thiadiazole and 1,2,4-Triazole	National Conference on " Interdisciplinary approach in Green Synthesis" (ISBN-978-93-81659-13-7)	S.M.Joshi College, Hadapsar, Pune	14 February 2015
6.	Microwave Assisted Synthesis and Characterization of Halogenated Chromones	National Conference on " Interdisciplinary approach in Green Synthesis" (ISBN-978-93-81659-13-7)	S.M.Joshi College, Hadapsar, Pune	14 February 2015
7.	Green Synthesis of 3- styrylchromones using DBU as a Catalyst	National Conference on " Interdisciplinary approach in Green Synthesis" (ISBN-978-93-81659-13-7)	S.M.Joshi College, Hadapsar, Pune	14 February 2015
8.	Analysis of ground water quality using physic-chemical parameters from irrigated and non-irrigated areas of Pathardi Tehsil	National Conference on "Material Advances for Better Future"	Jijamata College of Science and Arts, Bhende (Bk), Newasa	16-17 January 2015

9.	Microwave assisted synthesis of thiophene anchored 1,3,4-thiadiazole, 1,2,4-triazole	National seminar on “Emerging trends in organic chemistry”	Maharaja Jivajirao Shinde Mahavidyalaya, Shrigonda	26-27 December 2014
10.	One pot multicomponent synthesis of some novel fluorinated dihydropyrimidinethion esnddihydropyridine derivatives	National Conference on “Current innovations in chemical research”	K. J. Somaiya College, Kopargaon	22-23 December 2014
11.	Microwave assisted synthesis and characterization of fluorinated 2-styrylchromone	National conference on “Interdisciplinary approaches in biochemical sciences”	Radhabai Kale Mahila Mahavidyalaya, Ahmednagar	19-20 December 2014
12.	Environmentally benign synthesis of some novel thiadiazole and triazole	International conference on “Innovation in energy, polymer and environmental sciences”	Y. C. Institute of Satara, Satara	2014
13.	Synthesis and characterization of some 2-heteryl chromones	National conference on “Upcoming trends in chemical sciences”	ShriAnand College, Pathardi, Ahmednagar	2013
14.	Synthesis and characterization of some 1,3,4-thiadiazole	National conference on “Upcoming trends in chemical sciences”	ShriAnand College, Pathardi, Ahmednagar	2013
15.	Synthesis of (E)-3-(Bis(2-Chloroethyl)Amino)-1-(2-Hydroxyphenyl)Prop-2-ene	National conference on “Upcoming trends in chemical sciences”	ShriAnand College, Pathardi, Ahmednagar.	2013
16.	Conversion of 3-formyl chromone into biologically important heterocyclic compounds	A National seminar on “New trends in synthetic organic chemistry”	Mahatma Phule Mahavidyalaya, Pimpri, Pune.	2012
17.	Conversion of 3-formyl chromone into biologically important heterocyclic compounds	A National seminar on “New trends in synthetic organic chemistry”	Mahatma Phule Mahavidyalaya, Pimpri, Pune.	2012

G) Working as a reviewer for various international journals.

1. Indian Journal of Chemistry-Section B (NISCAIR)
2. Naunyn-Schmiedeberg's Archives of Pharmacology (Springer Nature)
3. Scientific Reports (Nature)
4. ChemistrySelect (Wiley)
5. Bentham Science Publisher
6. Chemistry and biodiversity (Wiley)
7. Polycyclic Aromatic Compounds (Taylor and Francis)
8. Discover Chemistry (Springer Nature)

H) Seminars and conferences organized.:

1. Co-ordinator for National Conference on Recent Development in Chemical Sciences 2015.
2. Co-ordinator for National Conference on Drug, Discovery and development 2020.
3. Co-ordinator for National Workshop on "Lecture Series in Chemistry for UG and PG students" in collaboration with Royal Society of Chemistry, West India.

I) Membership of International, National and other organizations:

- a. Worked as Member of the editorial board of the research journal "Trajectory" published by Rayat Shikshan Sanstha, Satara.

J) Positions held in Rayat Shikshan Sanstha:

- 1) Member of Rayat Kutumb Kalyan Yojana, Satara.

K) Academic and administrative positions held in Colleges:

1. Worked as Head, Department of chemistry at Radhabai Kale Mahila Mahavidyalaya, Ahmednagar.
2. Worked as Head, Department of chemistry at Abasaheb Marathe Arts and New Commerce, Science College, Rajapur.
3. Worked as Member, College Development Committee, Radhabai Kale Mahila Mahavidyalaya, Ahmednagar.
4. Worked as Member, College Development Committee, Abasaheb Marathe Arts and New Commerce, Science College, Rajapur.
5. Chairman 'Research promotion Committee' of college.
6. Worked as college Co-ordinator for Chemiad examination.
7. Worked as Academic and Research Coordinator of the college.

Dr. Hemantkumar Navnath Akolkar