

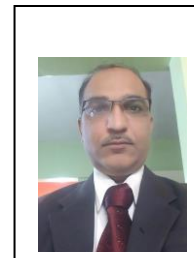


**Rayat Shikshan Sanstha's**  
**Yashavantrao Chavan Institute of Science, Satara (Autonomous)**  
**Lead College of Karmaveer Bhaurao Patil University, Satara**

**Faculty Profile**

❖ **General information**

**Name** : Dr. Rajkumar Vishwanath Hangarge  
**Designation** : Assistant Professor  
**Department** : Chemistry  
**Educational Qualification** : M.Sc. B.Ed. SET. Ph.D.  
**Date of Appointment** : 06/01/2020  
**Teaching Experience** : UG: 4 years  
PG: 4 years  
**Research Experience** : 17 years  
**Research Area** : Synthetic Organic and Medicinal Chemistry



❖ **Educational Qualification Details (undergraduate onwards)**

Sr. No.	College/University	Degree	Subjects	Year	Class/Percentage
1	Dr. B.A. M. Univeristy, Aurangabad	B.Sc.	Physics, Chemistry & Analytical Chemistry	1995	69.50
2	Dr. B.A. M. Univeristy, Aurangabad	M.Sc.	Organic Chemistry	1998	66.75
3	S.R.T.M. University, Nanded	B.Ed.	Science and Mathematics	1997	65.20
4	Dr. B.A. M. Univeristy, Aurangabad	Ph.D.	Chemistry	2003	NA

❖ **Academic and Administrative Responsibilities**

Sr. No.	Position	Organization	Date/Duration
1	N.S.S. Program Officer	Y.C. I. S., Satara	18-10-2022
2	Co-ordinator	Drug Chemistry, Y.C. I. S., Satara	06-09-2022
3	Vice President	Institutional Innovation Council, Y.C. I. S., Satara	21/08/2021
4	Chairman	Science Poster Activity, Y.C. I. S., Satara	21/08/2021

❖ **Awards/Honors/Recognitions/Scholarship etc.:**

Sr. No.	Name of the award/honor/recognition	Awarding Organization	Date and year
---------	-------------------------------------	-----------------------	---------------

1	Senior Research Fellowship	Council of Scientific and Industrial Research, New Delhi	July 2001
2	Postdoctoral Fellowship	Katholieke University, Leuven, Belgium	May 2002
3	PG Teacher recognition	Karmaveer Bhaurao Patil University, Satara	March 2023
4	Ph.D. Guide recognition	Karmaveer Bhaurao Patil University, Satara	March 2023
5	PG Teacher recognition	Savitribai Phule Pune University, Pune	Januray 2021
6	Ph.D. Guide recognition	Savitribai Phule Pune University, Pune	Januray 2021

❖ **Membership to Professional Organizations/Associations:**

Sr. No.	Membership type (Annual/Life/any other)	Organization/Association	Date and year
1	Member of Board of Life Long Learning and Extension	Karmaveer Bhaurao Patil University, Satara.	06-03-2023

❖ **Worked as Editor/Reviewer to Journals/Books/Proceedings etc.**

Sr. No.	Name of the Journal/Book/Proceedings	ISSN/ISBN No.	Assignment (Editor/Reviewer)	Publisher	Publication year
1	Frontier Areas in Chemical Sciences		Editor		2023

❖ **Research Projects (Ongoing/Completed)**

Sr. No.	Title of Project	Duration	Amount Sanctioned (in Lakhs)	Agency	Status (Ongoing/Completed)
<b>Major Research Project</b>					
1					
2					
<b>Minor Research Project</b>					
1					
2					

❖ **Research Guidance:**

- Number of students (M.Phil)      1) Completed: *NIL*    2) Registered: *NIL*
- Number of students (Ph.D.)      1) Completed: *NIL*    2) Registered: **01**

❖ **Details of Research Publications**

**A) Patent**

Sr. No.	Title	Patent No.	Indian/US/ Any other	Granting date
1	Process for the preparation of phosphoric acid mono-(1--4-methoxymethyl-piperidin-4-yl) ester	US20130296569A1	US	07/11/2013
2	Heterocyclyl compounds	US9573944B2	US	21/02/2017
3	Heterocyclyl compounds as MEK inhibitors	US9428499B2	US	30/08/2016
4	Heterocyclyl compounds as MEK inhibitors	US9555035B2	US	31/01/2017
5	Composto, salfarmaceuticamente aceitável e composição farmacêutica	BR112014022713B1	BR	08/09/2021
6	Heterocyclyl compounds as MEK inhibitors	WO2016009306A1	PCT	21/01/2016
7	Heterocyclyl compounds	US9827247B2	US	28/11/2017
8	Heterocyclyl compounds as MEK inhibitors	US9969731B2	US	15/05/2018

### **B) Books/Book Chapters**

Sr. No.	Title	Publisher	Year of Publication	ISBN No	Type (Reference/Text)
1	Effect of Citric Acid on pH of Tea Solutions		2023		
2	Palladium Catalyzed Coupling Chemistry		2023		
3	Current Treatment for Diabetes		2023		
4	Inorganic materials in medicinal chemistry		2023		
5	Covalent inhibitors		2023		
6	Selective oxidation of aromatic compounds (p-cresol)		2023		

7	Structure- Property Relation of Nanomaterials-Thin Film Deposition		2023		
8			2023		

### **C) Datasets Submission**

<b>Sr. No.</b>	<b>Title</b>	<b>Accession No.</b>	<b>Data base</b>	<b>Year of publication</b>
1				
2				
3				
4				

### **D) Research papers:**

<b>Sr. No</b>	<b>Title of paper</b>	<b>Journal/proceeding details (Name, volume, page no, year of publication etc.)</b>	<b>ISSN No</b>	<b>Listed in Scopus/ Web of Science / UGC Care</b>	<b>Impact factor (If any)</b>
1	Characterization and Antimicrobial Activities of Some 2-(1,3-Diphenyl-1H-pyrazol-4-yl)-3-chlorochromones and 2-(1,3-Diphenyl-1H-pyrazol-4-yl)-4-(2-hydroxyphenyl)-2,3-dihydro-1,5-benzothiazepines	Korean J. Med.Chemistry 2, 84-91, 2000	1225-0058	Scopus	1.241
2	Microwave Induced Synthesis of 3-Methyl-4-[(chromon-3-yl)methylene]-1-phenylpyrazolin-5-(4H)-ones with Alumina Support and in Solvent-Free Conditions	Synthetic Communications 32 (4), 497-503, 2002	0039-7911	Scopus	1.937
3	Microwave Induced Abramov Reaction of 3-Formylchromone with Trialkylphosphites	Synthetic Communications 32 (17), 2633-2636, 2002	0039-7911	Scopus	1.937
4	Synthesis of Newer Selenadiazoles (II) and Thiadiazoles (III) from Their Chroman-4-one Precursors	Indian J. Chem.,Sect. B: Org.Chem. Incl. Med.Chem. 42	0376-4699	Scopus	0.456

		(01), 189-191, 2003			
5	A Facile Synthesis of 1,3,4,6-Tetrahydro-1,6-benzodiazocine-2, 5-diones	Russian Journal of Organic Chemistry 40 (4), 575-577, 2004	10704 280	Scopus	0.8
6	Borate Zirconia Mediated Knoevenagel Condensation Reaction in Water	Journal of Korean Chemical Society 49 (4), 377-380, 2005	1225- 0058	Scopus	1.241
7	Ceric Ammonium Nitrate Catalyzed Efficient and Chemo selective Method for Protection and Deprotection of 4-Oxo-4H- 1-benzopyran-3-carbaldehydes	Indian J. Chem., Sect. B: Org.Chem. Incl. Med.Chem. 44B, 2409-2411, 2005,	0376- 4699	Scopus	0.456
8	Synthesis and Antibacterial activities of $\alpha$ - hydroxyphosphonates and $\alpha$ - acetyloxyphosphonates derived from 2- Chloroquinoline-3-carbaldehyde	ARKIVOC 11, 196-204, 2006	1424- 6376	Scopus	0.689
9	Simple and High Yielding Synthesis of New $\alpha$ -Aminophosphonates from Imines	Phosphorus, Sulfur, and Silicon and the Related Elements 183 (6), 1461- 1470, 2008	042- 6507	Scopus	1.052
10	Simple and Efficient Synthesis of New O,O-Diethyl Phosphorothioates	Russian Journal of Organic Chemistry 45 (3), 430-433, 2009	10704 280	Scopus	0.8
11	Synthesis of newer coumarinoacetyl pyrazoles and their antimicrobial activities	Indian Journal of Heterocyclic Chemistry 9(4), 315-316, 2000	09711 627	Scopus	0.307
12	Synthesis of new pyrroles and their biological activities	Hindustan Antibiotic Bulletin 41(1-4), 32-34, 1999,	0018- 1935	Scopus	0.1

13	Synthesis and characterization of some 3-styryl chromones	Indian Journal of Heterocyclic Chemistry 10(3), 233-234, 2001	09711 627	Scopus	0.307
14	Lithium chloride mediated synthesis of 3-methyl-4-[(chroman-3-yl)methylene]-1-phenylpyrazolin-5-(4H)-ones	Indian Journal of Heterocyclic Chemistry 11(4), 329-330, 2002	09711 627	Scopus	0.307
15	Knoevenagel condensation reactions in an ionic liquid	Green Chemistry 4(3), 266-268, 2002	14639 262	Scopus	11.03 4
16	Water mediated uncatalyzed facile synthesis of ylidenenitriles of 4-oxo-(4H)-1-benzopyran-3-carbaldehyde	Green Chemistry 3, 310-312, 2001	14639 262	Scopus	11.03 4
17	Synthesis of 3-methyl-4-[(chromon-3-yl)methylene]-1-phenylpyrazolin-5-(4H)-ones catalysed by MCM-41-SO <sub>3</sub> H	Mendeleev Communications 12(5), 209-210, 2002	0959- 9436	Scopus	1.837
18	Environmentally benign synthesis of 3-methyl-4-[(1,3-diphenyl-1H-pyrazol-4-yl)methylene]-1-phenylpyrazolin-5-(4H)-ones in an ionic liquid	Mendeleev Communications 13(2), 79-79, 2003	0959- 9436	Scopus	1.837
19	Selective Regeneration of Carbonyl Compounds from Aldoximes and Ketoximes, Catalysed by FeCl <sub>3</sub> and SeO <sub>2</sub>	Indian J. Chem., Sect. B: Org. Chem. Incl. Med. Chem. 41(6), 1302-1304, 2002	0376- 4699	Scopus	0.456
20	One pot facile synthesis of 5-[3-(1,2-benzisoxazolyl)]-2-aminopyrimidines from 5-salicyloyl-2-aminopyrimidines	Indian Journal of Heterocyclic Chemistry 11(4), 323-324, 2002	09711 627	Scopus	0.307
21	Magnesium Oxide Nanoparticles Facilitates One Pot Wittig Reaction for the Synthesis of Ethyl(2E)-3-(2-chloroquinolin-3-yl)prop-2-enoate Derivatives	Chemistry & Biology Interface 11, (5), 171-174, 2021	2249- 4820	Scopus	NA
22	Peterson Olefination in an Ionic Liquid: A Greener Approach	Chemistry & Biology	2249- 4820	Scopus	NA

		Interface 11, 2, 57-60, 2021			
--	--	------------------------------	--	--	--

**E) Paper Presentation in Conference /Seminar/ Symposia:**

Sr. No	Title of paper	Name of the Conference /Seminar/ Symposia Details (Title, Date, Page No etc.)	Level (Intl/Natl/State /Uni etc.)	Organizing institute
1	Biosorption potential for methylene blue by sieved biomass of <i>Caryota Urens</i>	International Conference on Multidisciplinary Approach and Innovations in Chemicals Sciences-2022(MAICS-22)	International	Y.C.I.S. Satara

**F) Citation Index**

	Google Scholar	Scopus	Web of Science
Citations	575	403	
h-index	11	9	
i10-index	13		

**❖ Participation in Orientation/Refresher/FDP/Short Term/Training Programs:**

Sr. No	Name of the programme	Organizing institute	Date
1	Faculty Development Program in Drug Chemistry	Department of Chemistry, Y.C.I. S., Satara	08/09/2021
2	Regional Meet Institution's Innovation Council MoE's Innovation Cell	MoE's Innovation cell (Govt. of India) at Symbiosis International University, Pune	01/08/2022
3	Refresher Course in Chemistry	HRDC Gujrat University, Ahmedabad-380009	16/08/2021 to 29/08/2021
4	Faculty Development Program on "Effective Ways To Develop E-content For Teaching-Learning"	UGC-HRDC, SPPU, Pune at KTHM College, Nashik	21/05/2020 to 30/05/2020
5	Ministry of Human Resource Development Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, 4 Week Orientation	Teaching Learning Centre, Ramanujan College University of Delhi	26/06/2020 to 24/07/2020

**❖ Participation in Conference/Seminar/Symposia/Workshop/Any other programs:**

Sr. No.	Name of the event	Organizing institute	Level (Intl/Natl/State/Uni/Local etc.)	Date
1	International Conference on Multidisciplinary Approach and Innovations in Chemicals Sciences-2022(MAICS-22)	Y.C.I.S, Satara	International	25 <sup>th</sup> &26 <sup>th</sup> March 2022
2	Two days workshop on Project Based Learnings	Y.C.I.S, Satara	Local	16 <sup>th</sup> March 2022
3	One day seminar on “ Science: Past, Present & Future	Lal Bahadur Shashtri College of Arts, Science & Commerce, Satara	University	29 <sup>th</sup> March 2022
4	One day workshop on “Implementation of NEP-2020”	Karmaveer Bhaurao Patil University, Satara & IQAC, C. S. College, Satara	University	2 <sup>nd</sup> March 2023
5				

❖ **Resource person in Conference/Seminar/Workshop/Any other programs:**

S. No.	Title of the event	Level (Intl/Natl/State/Uni./local etc.)	Organizer	Date
1	Diabetic drug development: Past and Present	Local	Lal bahadur ShastriCollege of Arts,Science andCommerce, Satara	29/03/2022
2	Project design Development Demonstrate prototype patent product publication	Local	YashavantraoChavan Institute ofScience, Satara	11-01-2023
3	Approaches towards drug and its synthesis	Local	YashavantraoChavan Institute ofScience, Satara	08-09-2021
4	Project based learning (PBL)	Local	Yashavantrao Chavan Institute ofScience, Satara	16-03-2022
5	Purification Techniques	Local	Rayat Institute of Research	11-08-2022



			andDevelopment	
6	Current Trends in Medicinal Chemistry	National	Squadron Life Sciences Pvt. Ltd.	26-06-2023
7	Diabetic drug development: Past and Present	Local	Yashavantrao Chavan Institute of Science, Satara	13/10/2022

❖ **Chaired Sessions in Conference/Seminar/Workshop etc.:**

<b>S. No.</b>	<b>Title of the event</b>	<b>Level (Intl/Natl/State/Uni./local etc.)</b>	<b>Organizer</b>	<b>Date</b>
1	One day international conference on Nanomaterials for energy and environmental applications (IC-NEEA-2023)	International	Lal bahadur Shastri College of Arts, Science and Commerce, Satara	21-03-2023

**Signature of Faculty**