C. V. of Prof.(Dr.) Hangirgekar Shankar Poshatti

Personal information:

Name in Full:	Prof.(Dr.) Hangirgekar Shankar Poshatti
Designation:	Professor
Date of Birth:	December 4, 1974
Nationality:	Indian
Sex:	Male
Phone No.	Mo. +91-9890363931
E-mail:	hangirgekarshankare@gmail.com sph.chem@unishivaji.ac.in
Languages:	English, Hindi, Marathi, Telgu

Academic Qualifications:

Examination Passed	Subject	Year of Passing	Grade obtained	Board /University awarding Degree
Ph. D.	Chemistry	2011	-	SRTMU Nanded
NET	Chemistry	2002	--	CSIR New Delhi
M. Sc.	Organic Chemistry	2000	B	SRTMU Nanded

Research Experience:

Ph. D. Degree: Awarded on March 2011.

Title of the Thesis: "Development of novel functional group transformations in organic synthesis".

Name of Guide: Dr. S. G. Shirodkar,
Department of Chemistry,
N.S.B. College, Nanded.

Current research:

- heterogeneous catalysts

- Synthesis of heterocycles
- Medicinal Chemistry

Teaching Experience:

- Worked as P.G. core Teacher in Chemistry at LBS College, Dharmabad during July 2001 to July 2003.
- Worked as Lecturer in Chemistry at NSB, College, Nanded during July 2003 to January 2009.
- Worked as Assistant Professor in School of Chemical Sciences, Swami Ramanand Teerth Marathwada University, Nanded, since January 2009 to February 2015.
- Currently working as Professor in Department of Chemistry, Shivaji University, Kolhapur.

Details of Ongoing Projects:

Sr. No	Title of the project	Duration		Budget allocated	Sponsored by
		From	To		
1.	Synthesis and biological screening of new pyranone carbamate derivatives	2019	2021	2,30,000/-	Shivaji University, Kolhapur

Details of Completed Projects:

Sr. No	Title of the project	Duration		Budget allocated	Sponsored by
		From	To		
1.	Novel conversion of multistep reactions into rapid one-pot synthesis of potentially bioactive heterocycles.	2012	2015	12,39,800/-	UGC New Delhi

Awards and Achievements

- **Qualified National Eligibility Test (NET)-2002**
- **Indian Patent published (2022)**
- **German Patent published (2024)**
- **UK Patent published (2025)**

Research Students:

- Students registered for Ph. D : 06
- Students completed Ph. D : 07
- Students completed M. Phil : 01
- Students registered M. Phil : 01
- Students completed M. Sc. Project : 106

Members of Committees:

- Senate Member of Shivaji University, Kolhapur

- Academic council member of Shivaji University, Kolhapur
- Academic council member of mahavir College, Kolhapur
- BOS member of S.R.T.M.University, Nanded
- BOS member of Rajrshri Shahu College, Latur. (Autonomous)
- BOS member of Willingdon College sangli. (Autonomous)
- EC Member of Shivaji University PG Teacher association (SUPTA).
- Member of grievance committee Shivaji University, Kolhapur.
- Chief Rector of Boys hostel.
- Life member of International Science Congress Association.
- Life member of Indian Society of Analytical Scientists.
- Worked as Treasurer in the international conference on ICACS-2018 organized by department of Chemistry, Shivaji University, Kolhapur, Maharashtra, India**.** during February 01-03, 2018.
- Acted as a Secretary in the national conference organized by department of chemistry, Shivaji University, Kolhapur
- Member of organizing committee of international conference on ICRINT organized by SRTMU Nanded, Maharashtra, India during 13, 14-Jan-2013.
- Member of organizing committee of National Seminar on Novel Macromolecular Drug targets and drug design organized by School of Chemical Sciences, SRTM University, Nanded Maharashtra, India during 26th, March 2012.
- Member of organizing committee of National Seminar on Innovations in materials and organic synthesis organized by School of Chemical Sciences, SRTM University, Nanded Maharashtra, India during 27th, March 2010.
- Member of organizing committee of national level conference on Teaching Chemistry, What do we aim for"? at "NSB College Nanded, Maharashtra, India during March 29-30, 2007.
- Member of Syllabus framing committee UG and PG level, SRTM University, Nanded Maharashtra, India.
- Member of organizing committee of state level seminar on New Horizons in Chemistry, conducted at LBS College Dharmabad, Maharashtra, India during March 9-10, 2002.
- Member of paper setter, examiner committee UG and PG level, SRTM University, Nanded Maharashtra, India.
- Worked as an officer central assessment program in SRTM University, Nanded Maharashtra, India.
- Committee member of "Jatropha Plants" SRTM University Nanded Maharashtra, India.

Invited Talk

1. **Hangirgekar Shankar, Invited as Chief Guest in** the one day workshop organized by Y.C. College, karad.
2. **Hangirgekar Shankar, Invited Speaker in** Two days National conference on material science and chemistry at Department of Chemistry, Yogeshwari college, Ambajogai.
3. **Hangirgekar Shankar, Invited Speaker in** One day workshop on New syllabus o M.sc.I , Sem-I & II at Willingdon College, Sangli.
4. **Hangirgekar Shankar, Invited Speaker in** Refresher Course in Chemistry organised by the UGC – HRDC 2022, Sant Gadge Baba Amravati University.
5. **Hangirgekar Shankar, Invited Speaker in** National Conference on Current Scenario In Chemical And Material Sciences at D.A.B.N. Arts& Sci College, Chikhali.

6. **Hangirgekar Shankar, Invited Speaker in** Refresher Course in Chemistry organised by the UGC – HRDC, Sant Gadge Baba Amravati University.
7. **Hangirgekar Shankar, Invited Speaker in** Refresher Course – Chemistry organised by the UGC – HRDC 2024, Shivaji University Kolhapur.
8. **Hangirgekar Shankar, Invited Speaker in** the one day workshop organized by Shahaji College, Kolhapur.
9. **Hangirgekar Shankar, Invited Speaker in** the one day workshop organized by Y.C. College, satara.
10. **Hangirgekar Shankar**, Chairperson of the Session, International Conference on advances in materials sciences(ICAMS-2016), Raje Ramrao Mahavidyalaya Jath.
11. **Hangirgekar Shankar**, Chairperson of the Session,Newest Developments in Chemical Sciences for Civilized Society(NDCSCS-2016), College of Arts, Comm. And Science,Parbhani.
12. **Hangirgekar Shankar**, Chairperson of the Session, **Recent Advances in Integrated Pest Management (RAIPM-2016)**, Department of Agrochemicals and Pest Management, Shivaji University, Kolhapur, March 1-2, 2016.
13. **Hangirgekar Shankar**, Use of ZSM-5 in Organic Synthesis, **Invited Speaker in** Refresher Course in Chemistry during November 16-December 06, 2015, organized by the Department of Chemistry, Shivaji University, Kolhapur**,** November 17, 2015.
14. **Hangirgekar Shankar**, Ionic Liquids as Green Solvents, **Invited Speaker in** Refresher Course in Chemistry during November 16-December 06, 2015, organized by the Department of Chemistry, Shivaji University, Kolhapur, November 17, 2015.
15. **Hangirgekar Shankar**,Delivered Guest lecture at School of Pharmacy, SRTM University, Nanded, Maharashtra, India.
16. **Hangirgekar Shankar**,Delivered Guest lecture at N.S.B. College Nanded, Maharashtra, India.
17. **Hangirgekar Shankar**,Delivered eminent lecture for NET/SET on "NMR Spectroscopy" at N.S.B. College Nanded, Maharashtra, India.
18. **Hangirgekar Shankar**, Study of heterocycles and their applications, **Invited Speaker in** One day Workshop on "The Scope of Revised Curriculam of M.Sc. Chemistry and applied subjects". Organized by L.B.S. College, Dharmabad, at Swami Ramanand Teerth University, Nanded.

Conferences/ Seminars, Workshops Attended:

International Conferences

1) International Conference on Challenges and opportunities before 21st century India in The fields of social Sciences, Science, Management and Technology. Rajarshi Chhatrapati Shahu College, Kolhapur Maharashtra, India.
2) Impact of Chemical research on environment. At New Arts, Commerce & Science College, Parner, Maharashtra, India.
3) International Conference on Nanotechnology addressing the convergence of materials science, biotechnology and medical science, at D.Y.Patil Education Society, Kolhapur Maharashtra, India.
4) International Conference on Chemistry for Mankind: Innovative Ideas in Life Sciences, at Department of Chemistry, RTM University, Nagpur Maharashtra, India.
5) International Conference on Emerging Horizons in Biochemical Sciences & Nanomaterial's (EHBCSN-2013), Dept. of Chemistry & Microbiology, Shri Shivaji Mahavidylaya Barshi Maharashtra, India.
6) International Conference on Interface between Chemistry & Environment, Dept. of Chemistry, Ramjas College, Delhi , India.

7) International Conference on 2nd International Science Congress, Bon Maharaj Engineering College, Vrindavan Mathura (UP), India.
8) International Conference on ICRINT-2013, School of Chemical Sciences, Life Sciences, Pharmacy And Physical Sciences, SRTMUN Maharashtra, India.
9) International conference on TAP SUN:The subtainable future CSIR-IICT Hyderabad Andrapradesh, India.
10) International Conference on "Drug Designing and Nano Technology" at Yashawant College Nanded Maharashtra, India.

National Conferences/Seminar:

1) National Conference on Impact of Chemistry & Biology to the Society and Industry at Dept. Of Industrial Chemistry, Kuvempu University, Shivamogga,Karnataka.
2) National Conference on Newest Developments in Chemical Sciences for Civilized Society at College of Arts, Comm. And Science, Parbhani Maharashtra, India.
3) National Conference on Innovative Research in Chemical Sciences at Innovative Research in Chemical Sciences Maharashtra, India.
4) National Conference on Recent Advances in Integrated pest management at Dept. of Agrochemicals And Pest management Shivaji University Kolhapur Maharashtra, India.
5) National Conference on Recent trends in bioactive heterocycles Hu.Bahirji Smarak Mahavidyalaya, Basmatnagar Maharashtra, India.
6) National Conference on Recent trends in spectroscopy Shri Madhavarao Patil Mahavidyalaya, Murum Maharashtra, India.
7) National Conference on Global Environmental Problems, It's Impact & Solutions N.S.B. College, Nanded Maharashtra, India.
8) National Conference on Recent Trends in Botany N.S. Science & Arts College, Bhadrawati Maharashtra, India.
9) National Seminar on Research Aptitude in Sciences: A Thought, N.S.B. College, Nanded Maharashtra, India.
10) National Conference on Plant biotechnology for agriculture and rural development L.B.S. College Dharmabad.
11) National Conference on Recent Advances in Chemical Engineering North Maharashtra University, Jalgaon-425 001, Maharashtra, India.
12) National Level conference on "Recent Advancement in Studies and Metal Complexes" at Science College Nanded Maharashtra, India.
13) National Conference on Innovations in Chemistry-Laboratory to Society North Maharashtra University, Jalgaon-425 001, Maharashtra, India.
14) National Seminar on Recent Trends in Chemistry N.S.B. College, Nanded Maharashtra, India.
15) National seminar on Recent advances in Organic Chemistry, G.G.College, Nizamabad. Andra Pradesh, India.
16) National Conference on Advanced Technologies in Material Science and their applications, Arts, Comm. And Science College, Arvi, Dist. Wardha Maharashtra, India.
17) National Conference on "Current Innovations in Chemical Research" at K. J. Somaiya College, Kopargaon Maharashtra, India.

State level Conferences/Seminar:

1) State level seminar on "Emerging trends in Chemistry" at Shivaji College, Parbhani Maharashtra, India.
2) State level conference on Recent Trends in Chemistry Mahatma Basweshwar Mahavidyalaya

Latur Maharashtra, India.

3) State level Seminar on Current environmental problems P.N.College Nanded Maharashtra, India.

Regional level Conferences/Seminar

1) Regional level conference on Botany in agriculture and rural development L.B.S. College Dharmabad Maharashtra, India.

National /State level Workshops:

1) National Workshop on Advances in Instrumental Techniques, at Shivaji College, Amaravati, Maharashtra, India.
2) Workshop on "Chemistry syllabus for B. Sc. Part-III", Deglur College, Deglur, Maharashtra, India .
3) "Workshop on Scope and Syllabus of M. Sc. Part-II and B. Sc. Part-II Chemistry" at Science College, Nanded, Maharashtra, India.
4) Scope of syllabus on Chemistry at UG and PG level DSM College, Parbhani, Maharashtra, India.
5) One day workshop on "Patent: Rules and Regulations" organized by SRTM University Nanded, Maharashtra, India.
6) One day workshop on "Analytical Instruments" Organized by NSB College Nanded, Maharashtra, India.
7) One day workshop on "Core Competencies and Value System Among Higher Education Students to Meet Global Competency" organized by SRTM University Nanded, Maharashtra, India.
8) Workshop on Interdisciplinary Nanoscience, organized by SRTM University Nanded, Maharashtra, India.
9) Regional level workshop on New Trends in Revised UGC Model based curriculam at PG level in Chemistry, Organized by D. S. College, Latur, Maharashtra, India.
10) National Workshop on Recent techniques in instrumental methods of Chemical Analysis organized by Shri Chhatrapati Shivaji College, Omerga, Maharashtra, India.

List of publications:

1) Reshma Yadav, Rutuja Zond, Pravin Dongare, Suyash Halade, Shubham Deshmukh, Lalit Bhosale, Sandeep Sankpal, Shankar Hangirgekar, Fe3O4@SiO2-Pr-N-DETAAP-Cu(II): A new magnetically separable catalyst for efficient synthesis of 1,4-disubstituted 1,2,3-triazole using click reaction,(2025), Journal of Molecular Structure, 1349 (2026) 143615.
2) Govind Salunke, Pradeep Patil, P.S. Takale, P.B. Choudhari, Umesh Sankpal, Arjun Chavan, Reshma Yadav, Shankar Hangirgekar, Sandeep Sankpal, [MerTEA][OH]: An efficient and reusable polymer supported catalyst for one-pot synthesis of spirooxindoles and their anti-inflammatory study,(2025), Journal of Molecular Structure, 1350 (2026) 144021.
3) Akshay Gurav, Lalit Bhosale, Prakash N. Chavan, Rutikesh Gurav, Nisha Nerlekar, Padma Dandge, Sneha Rochlani, Sandeep Sankpal, Shankar Hangirgekar, One-pot synthesis of novel hydrazinyl thiazoles using rust and Ficus benghalensis leaf derived Fe2O3/ZrO2 nano-catalyst: Their molecular docking, ADME, antidiabetic, and antioxidant study,(2025), Journal of Molecular Structure, 1338,1-14.
4) Reshma Yadav, Rutuja Zond, Vishvjeet Havaldar, Sakshi Mane, Unnati Sasane, Bhaveshwari Budake, Sandeep Sankpal, Shankar Hangirgekar,Synthesis,

Characterization, and Catalytic Application of Novel Magnetically Separable Fe3O4@SiO2-Pr-NH-TDI-VB1 for Rapid Synthesis of Hydrazinyl Thiazoles, Applied Organometallic Chemistry.,(2025),39, 1-10.

5) Shankar Pralhadrao Phulwale, Shivaji Devrao Waghmare, Akshay Pandurang Gurav, Krishna Chaitanya Gunturu, Shankar Poshatti Hangirgekar, Biosynthesis of BiFeO3 for BiFeO3@Ag-S-CH2-COOH as the nanocatalyst for one-pot synthesis of 2, 3-dihydroquinazolin-4(1H)-ones and their anti-blood cancer activity, Journal of Molecular Structure, (2025),1338, 1-13.
6) Akshay Gurav, Rutikesh Gurav, Prakash N. Chavan, Nisha Nerlekar, Padma Dandge, Sandeep Sankpal, Shankar Hangirgekar, Design and synthesis of novel hydrazinyl thiazoles from biomass derived furfurals: Their molecular docking, anti-cancer, anti-oxidant, and anti-bacterial study, Journal of Molecular Structure,(2025),1323,1-13.
7) Shivaji Sawant, Pradeep Patil, Govind Salunke, Rupali Kamble, Mayur Bharmal, Sandeep Sankpal, Kailas Sonawane , Shankar Hangirgekar, An efficient, catalyst-free synthesis of novel indenoquinoxaline fused hydrazinylthiazoles and their antimicrobial evaluation with molecular docking study, Journal of Molecular Structure, (2025), 1321, 1-14.
8) Lalit Dhananjay Bhosale,Akshay Pandurang Gurav,Pradeep Jangonda Patil, Dilip Hanumant Dagade, Sandeep Ashok Sankpal,Shankar Poshatti Hangirgekar, Sustainable synthesis of 2,3-Dihydroquinazolin-4(1H)-ones using Ni-Fe2O3@SiO2-Pr-DMAP novel nanocatalyst: a profiling approach by DFT, Research on Chemical Intermediates(2025), 51, 1827-1861.
9) Rutuja R. Zond, Arati S. Kulkarni, Suvarna R. Umape, Padma B. Dandge, Reshma P. Yadav Nitin M. Naik, Vishal H. Thorat, Prafulla B. Choudhari, Shankar P. Hangirgekar, Sandeep A.Sankpal, Fe3O4@SiO2–Pr–THAM–(OSO3H)3: a novel magnetically separable catalyst for the synthesis of 4H chromenes and their antioxidant and antibacterial study, Research on Chemical Intermediates, (2025), 1233-1256.
10) Govind Salunke, Pradeep Patil, Nippu B. N., N. D. Satyanarayan, Reshma Yadav, Umesh Sankpal, Shankar Hangirgekar, Sandeep Sankpal, Synthesis, Anticancer, and Molecular Docking Studies of Quinolone-Thiosemicarbazones Using Fe3O4@gly-SO3H as a Magnetically Separable Nanocatalyst, Chemistry Select, 10, 1-15.
11) Rutuja Zond, Reshma Yadav, Nagesh Birajdar, Savaliram Ghane, Pravin Dongare, N.D. Satyanarayan, Umesh Sankpal, Shankar Hangirgekar, Sandeep Sankpal, Fe3O4@SiO2@CPTMS-PADETA nanocomposite-catalyzed one-pot three-component synthesis of spiroindoloquinazolines: a combined biological and computational profiling, Journal of Molecular Structure, (2025), 23-2025.
12) Lalit Bhosale , Rutikesh Gurav , Akshay Gurav , Sandeep Sankpal , Shankar Hangirgekar,Ni-Fe2O3@SiO2-Pr-DBU: A novel efficient magnetically retrievable catalyst for one-pot synthesis of dihydropyrano [3,2-c] chromene, Journal of Organometallic Chemistry,(2024) 1021, 1-10.
13) Neelam Deshmukh, Jayavant Deshmukh, Nikhil Deshmukh, Sandeep Sankpal, Shankar Hangirgekar, [ZeoDABCO-SO3H]Cl catalyzed synthesis, cytotoxicity against normal kidney cell line and molecular docking study of dihydropyrimidines-2-ones/thiones, Journal of Molecular Structure,(2024) 1301, 1-13.
14) Rutuja Zond, Archana Yadav, Reshma Yadav, Navanath Valekar, Santosh Pore,

Dattatraya Chandam, Shankar Hangirgekar, Sandeep Sankpal Fe3O4@Thiosemicarbazide-Cu(II): An efficient magnetically separable catalyst for greener synthesis of 1,2,3-triazoles using click reaction, Journal of Organometallic Chemistry, (2024) 1004, 1-12

15) Akshay Pandurang Gurav, Rutikesh Pandit Gurav, Rutuja Ramesh Zond,Nayak Devappa Satyanarayan, Nippu Ningegowda Belur,Shankar Poshatti Hangirgekar, (2023),Design and synthesis of γ-Fe_2O_3@Ag-S-CH_2-COOH nanocatalyst for one-pot synthesis of 2,3-dihydroquinazolin-4(1*H*)-ones and their anti-skin cancer activity, *Applied Organometallic Chemistry* . Accepted: 17 March 2023.

16) Archana Yadav, Pradeep Patil, Nagesh Birajdar, Anna Gophane, Krishna Gunturu, Shankar Hangirgekar, Sandeep Sankpal "An expeditious synthesis and histo-toxicological study of 1,2,3-triazoles catalyzed by a novel Fe3O4@SiO2-Pr-thiosemicarbazide-Cu(II) as a magnetically separable catalyst". Accepted 18 May 2023.

17) Prasad Swami, Sanket Rathod, Prafulla Choudhari, Devashree Patil, Ajinkya Patravale, Yogesh Nalwar, Sandeep Sankpal, Shankar Hangirgekar,Fe_3O_4@SiO_2@TDI@DES: A novel magnetically separable catalyst for the synthesis of oxindole, (2023) *Applied Organometallic Chemistry,1332, 45.*

18) Neelam Deshmukh, Jayavant Deshmukh, Sneha Paymal, Kailash Sonawane, Shivraj Wanale , Sandeep Sankpal, Shankar Hangirgekar, Zeolite@-Ag-CH_2-COOH catalyzed synthesis of Bis-cyclohexenones and their antibacterial evaluation and Molecular docking study,(2023)*Journal of Organomettalic Chemistry*(Accepted).

19) Pradeep Patil , Nippu B. N. N. D. Satyanarayan , Santosh Pore , Rutuja Zond , Akshay Gurav , Shankar Hangirgekar, Sandeep Sankpal (2023) Design, synthesis, docking studies and anticancer evaluation of spiro[indoline-3,4-pyrano[2,3-c]pyrazole] derivatives on MIN-6 cancer cell line, *Journal of Molecular Structure,* 1277 (2023) 134772.

20) Pradeep Patil, Archana Yadav, Dattatray Chandam, Rutikesh Gurav, Shankar Hangirgekar , Sandeep Sankpal (2022), [MerDABCO-BSA][HSO4]2: A novel polymer supported Brønsted acidic ionic liquid catalyst for the synthesis of biscoumarins and ortho-aminocarbonitriles, *Journal of Molecular Structure* 1259 (2022) 132622.

21) Rutikesh Gurav, Akshay Gurav, Sunita-Salunkhe-Gawali, Sushilkumar Jadhav, Prafulla Choudhari, Sandeep Sankpal, and Shankar Hangirgekar,(2021) Ficus Benghalensis Leaf Extract in Biosynthesis of Fe_3O_4 for Fe_3O_4@Ag-S-CH_2-COOH: A Novel Catalyst for Synthesis of new 3,4-dihydropyrimidin-2(1*H*)-ones and their Anticancer Evaluation, *Applied Organometallic Chemistry* (1-20).

22) Santosh K. Surve, Rutikesh Gurav, Akshay Gurav, Pradeep Lasonkar, Jeevan Kondre, Veerabhadra Kalalawe, Sunita S. Gawali and Shankar Hangirgekar, (2022) Scrutiny of Novel Tosylacrylimidamide as Non-Classical Bioisosteres of Sulfonylurea in Type II Diabetes Mellitus through Synthesis, In Vitro and Docking Studies, *Chemistry Select* 2022, 7, e202104232 (1 of 8).

23) Rutikesh Pandit Gurav, Rohit Dattatray Nalawade, Shivaji Dnyandeo Sawant, Nayak Devappa Satyanarayan, Sandeep Ashok Sankpal, Shankar Poshatti Hangirgeka, (2022) Biosynthesis of ZrO2 for ZrO2@Ag-S-CH2COOH as the retrievable catalyst for the one-

pot green synthesis of pyrazoline derivatives and their anticancer evaluation, *Applied Organometallic Chemistry.*(1-16).

24) Archana Yadav, Pradeep Patil, Dattatray Chandam, Sushilkumar Jadhav, Anil Ghule, Shankar Hangirgekar, Sandeep Sankpal,(2021) Fe_3O_4@SiO_2-SO_3H-DABCO: A novel magnetically retrievable bifunctional catalyst for ecofriendly synthesis of diheteroarylmethanes, *Journal of Molecular Structure*, Vol.1245, 130960.

25) Ramchandra Awalekar, Priyanka Mohire, Ajinkya Patravale, Shilpa Salunkhe, Shams Usmani, Dattatray Jamale, Shankar Hangirgekar, Govind Kolekar & Prashant Anbhule,(2021) Total Stereospecific Synthesis of (3*E*,7*Z*)-Tetradecadienyl Acetate, the Major Sex Pheromone Component of the Potato Pest *Symmetrischematangolias, Chemistry of Natural compounds.*(Published on 15 November, 2021)

26) PradeepPatil, ArchanaYadav, LaxmanBavkar, Nippu B.N., N.D. Satyanarayan, Ananda Mane, Akshay Gurav, Shankar Hangirgekar, Sandeep Sankpal, (2021) [MerDABCO-SO_3 H]Cl catalyzed synthesis, antimicrobial and antioxidant evaluation and molecular docking study of pyrazolopyranopyrimidines, *Journal of Molecular Structure*, Vol.1242, 130672.

27) Ramchandra Awalekar, Kishor Jagadhane, Shams Usmani, Shilpa Salunkhe, Dattatray Jamale, Shankar Hangirgekar, Govind Kolekar and Prashant Anbhule, (2021) Stereospecific Synthesis of (4E,10Z)- 4,10-Tetradecadienyl Acetate, the Major Sex Pheromone of Apple Leaf Miner Moth, Phyllonorycterringoniella, *Letters in Organic Chemistry,*Vol.18,1-7.

28) Rutikesh Gurav, Santosh Kumar Surve, Santosh Babar, Prafulla Choudhari, Devashree Patil, Vikramsinh More, Sandeep Sankpal and Shankar Hangirgekar, (2020), Rust-derived Fe2O3 nanoparticles as a greencatalyst for the one-pot synthesis of hydrazinylthiazole derivatives*, Org. Biomol. Chem*., Vol. 18, 4575–4582.

29) Shivanand Gajare, Audumbar Patil, Shankar Hangirgekar, Sushilkumar Dhanmane, Gajanan Rashinkar,(2020), Green synthesis of quinolines via A^3-coupling by using graphene oxide-supported Brønsted acidic ionic liquid, *Research on Chemical Intermediate,*2417-2436.

30) Ramchandra Awalekar, Priyanka Mohire, Navanath Valekar, Shams Usmani, Shilpa Salunkhe, Dattatray Jamale, Shankar Hangirgekar, Govind Kolekar, Prashant Anbhule, (2020), A total and convergent synthesis of (7Z,11Z,13E)-7,11,13-Hexadecatrienal, the major sex pheromone component of the citrus leafminer, Phyllocnistiscitrella, *Chemical Data Collections*.,Vol.30,2020.

31) Ramchandra Awalekar, Priyanka Mohire, Ajinkya Patravale, Shilpa Salunkhe, Dattatray Jamale, Shankar Hangirgekar, Govind Kolekar and Prashant Anbhule, (2020), Stereoselective Synthesis of (4E,6Z)-Hexadecadien-1-ol, (4E,6Z)-Hexadecadienyl Acetate and (4E,6Z)-Hexadecadienal, the Pheromone Components of the Persimmon Fruit Moth, Stathmopoda masinissa, *Chem Sci Rev Lett* 2020, 9 (35), 746-772.

32) Pradeep J. Patil, Govind D. Salunke, Madhukar B. Deshmukh Shankar P. Hangirgekar , Dattatray R. Chandam and Sandeep A. Sankpal,(2019), Thiamine Hydrochloride Catalyzed Synthesis of 1,2,4-Triazolidine-3-thiones in Aqueous Medium, *Chemistry Select,* Vol.4, 1– 9.

33) Dattatraya K. Jamale, Vashishtha M. Gurame, Navanath J. Valekar, Shankar P. Hangirgekar, Govind B. Kolekar, and Prashant V. Anbhule, (2019), An Efficient Protocol

for the Synthesis of Pyrido[2,3-*d*]pyrimidines in Glycerol–Water Medium: Assessment by Green Chemistry Metrics, *Macromol. Symp.* 2019, *387*, 1800202

34) Shankar Hangirgekar, Shankar,(2019) Convenient Synthesis of substituted 2-phenyl quinixaline from α-tosyl ketones and aryl 1,2-diamines catalyzed by L-proline, *Rasayan J. Chem*., 12(1), 329-332(2019)

35) Shankar Hangirgekar, Shankar Phulwale,(2018),Synthesis, Characterization and biological evaluation of some new Acridine derivatives, *Heterocyclic Letters*, Vol. 8| No.1|95-104.

36) Isak R. S., Javeed A W., Ahmad L. S., Rafique A. S., Hangirgekar S. P., Alamgir A. S. and Parveen R. S.,(2015), H-ZSM-5 Zeolite Synthesis by Sourcing Silica from the Wheat Husk Ash:Characterization and Application as A Versatile Heterogeneous Catalyst in Organic Transformations including Some Multi-Component Reactions, *Journal of catalysts*,2015,1-14.

37) Hangirgekar S.P., Phulwale S., (2018), Synthesis, characterization and biological evaluation of some new acridine derivatives, Heterocyclic Letters, Vol. 8, 2231– 3087.

38) Shankar P. Hangirgekar*, Vijay V.Kumbhar, Ahmad L. Shaikh,Ikhe A.Bhairuba,(2014), One-Pot Synthesis of 2,4,5- Trisubstituted Imidazoles Using Cupric Chloride as a catalyst Under Solvent free conditions, *Der Pharma Chemica,6(6):164-168.*

39) Hangirgekar, S. P., (2014), Bromodecarboxylation of substituted Cinnamic acids to β-bromostyrenes using DIB/LIBR: *Indo American Journal of Pharmaceutical Research,*4(6), 2761-2765.

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