

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
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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

Research Students:

- ❖ Students registered for Ph. D : 06
- ❖ Students completed M. Phil : 01
- ❖ Students registered M. Phil : 02
- ❖ Students completed M. Sc. Project : 32

Members of Committees:

- ❖ Chief Rector of Boys Hostel
- ❖ Life member of International Science Congress Association
- ❖ Life member of Indian Society of Analytical Scientists
- ❖ Member of IQAC committee Shivaji University, Kolhapur.

- ❖ Co-ordinator of Beti Bachao Abhiyan, Department of Chemistry, Shivaji University, Kolhapur.
- ❖ Acted as a Treasurer in the international conference organized by department of chemistry, Shivaji University, Kolhapur.
- ❖ 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, during 13, 14-Jan-2013.
- ❖ Member of organizing committee of National Seminar on Innovations in materials and organic synthesis organized by School of Chemical Sciences, SRTM University, Nanded during 27th, March 2010.
- ❖ Member of organizing committee of National Seminar on Novel Macromolecular Drug targets and drug design organized by School of Chemical Sciences, SRTM University, Nanded during 26th, March 2012.
- ❖ Member of organizing committee of state level seminar on New Horizons in Chemistry, conducted at LBS College Dharmabad, during March 9-10, 2002.
- ❖ Member of organizing committee of national level conference on Teaching Chemistry, What do we aim for"? at "NSB College Nanded, during March 29-30, 2007.

Conferences/ Seminars, Workshops Attended:

International Conferences: 09

- 1) International Conference on Chemistry for Mankind: Innovative Ideas in Life Sciences, at Department of Chemistry, RTM University, Nagpur.
- 2) International Conference on Emerging Horizons in Biochemical Sciences & Nanomaterial's (EHBCSN-2013), Dept. of Chemistry & Microbiology, Shri Shivaji Mahavidyalaya Barshi.
- 3) International Conference on Interface between Chemistry & Environment, Dept. of Chemistry, Ramjas College, Delhi.
- 4) International Conference on 2nd International Science Congress, Bon Maharaj Engineering College, Vrindavan Mathura (UP).
- 5) International Conference on ICRINT-2013, School of Chemical Sciences, Life Sciences, Pharmacy And Physical Sciences, SRTMUN.
- 6) International conference on TAP SUN:The sustainable future CSIR-IICT Hyderabad.
- 7) International Conference on "Drug Designing and Nano Technology" at Yashawant College Nanded.
- 8) International Conference on" Impact of Chemical research on environment"at New Arts, Commerce & Science College,Parner.
- 9) International Conference on" Challenges and opportunities before 21st century India inThe fields of social Sciences, Science, Management and Technology at Rajarshi Chhatrapati Shahu College, Kolhapur.

National Conferences/Seminar:16

- 1) National Conference on Recent trends in bioactive heterocycles Hu.Bahirji Smarak Mahavidyalaya, Basmatnagar.

- 2) National Conference on Recent trends in spectroscopy Shri Madhavarao Patil Mahavidyalaya, Murum.
- 3) National Conference on Global Environmental Problems, It's Impact & Solutions N.S.B. College, Nanded.
- 4) National Conference on Recent Trends in Botany N.S. Science & Arts College, Bhadrawati.
- 5) National Seminar on Research Aptitude in Sciences: A Thought, N.S.B. College, Nanded.
- 6) National Conference on Plant biotechnology for agriculture and rural development L.B.S. College Dharmabad.
- 7) National Conference on Recent Advances in Chemical Engineering North Maharashtra University, Jalgaon-425 001.
- 8) National Level conference on "Recent Advancement in Studies and Metal Complexes" at Science College Nanded.
- 9) National Conference on Innovations in Chemistry-Laboratory to Society North Maharashtra University, Jalgaon-425 001.
- 10) National Seminar on Recent Trends in Chemistry N.S.B. College, Nanded.
- 11) National seminar on Recent advances in Organic Chemistry, G.G.College, Nizamabad.(AP).
- 12) National Conference on Advanced Technologies in Material Science and their applications, Arts, Comm. And Science College, Arvi, Dist. Wardha.
- 13) National Conference on "Current Innovations in Chemical Research" at K. J. Somaiya College, Kopergaon.
- 14) National Conference on "Recent Challenges in advanced material and green chemistry (RCAMGC-2015)" Dr. B. A. M. University, Sub-Campus Osmanabad.
- 15) National Conference on "Innovative Research Techniques in Chemical and physical Sciences.(IRTCPS-2015)" Shri S.G.M.S.G.A.S.C.College, Kopergaon
- 16) National seminar on "Recent Advances in Integrated pest management" at Dept. of Agrochemicals And Pest management.SUK.

State level Conferences/Seminar: 03

- 1) State level seminar on "Emerging trends in Chemistry" at Shivaji College, Parbhani.
- 2) State level conference on Recent Trends in Chemistry Mahatma Basweshwar Mahavidyalaya Latur.
- 3) State level Seminar on Current environmental problems P.N.College Nanded.

National /State level Workshops:10

- 1) National Workshop on Advances in Instrumental Techniques, at Shivaji College, Amaravati.
- 2) Workshop on "Chemistry syllabus for B. Sc. Part-III", Deglur College, Deglur.
- 3) "Workshop on Scope and Syllabus of M. Sc. Part-II and B. Sc. Part-II Chemistry" at Science College, Nanded.
- 4) Scope of syllabus on Chemistry at UG and PG level DSM College, Parbhani.
- 5) One day workshop on "Patent: Rules and Regulations" organized by SRTM University Nanded.
- 6) One day workshop on "Analytical Instruments" Organized by NSB College Nanded.
- 7) One day workshop on "Core Competencies and Value System Among Higher Education

Students to Meet Global Competency” organized by SRTM University Nanded.

- 8) Workshop on Interdisciplinary Nanoscience, organized by SRTM University Nanded.
- 9) Regional level workshop on New Trends in Revised UGC Model based curriculum at PG level in Chemistry, Organized by D. S. College, Latur.
- 10) National Workshop on Recent techniques in instrumental methods of Chemical Analysis organized by Shri Chhatrapati Shivaji College, Omerga.

List of publications:

- 1) Rutikesh Gurav, Akshay Gurav, Sunita Salunkhe-Gawali, Sushilkumar Jadhav, Prafulla Choudhari, Sandeep Sankpal, Shankar Hangirgekar, (2022), Ficus benghalensis leaf extract in biosynthesis of Fe₃O₄ for Fe₃O₄@Ag-S-CH₂-COOH: A novel catalyst for synthesis of new 3,4-dihydropyrimidin-2(1H)-ones and their anticancer evaluation, *Appl. Organomet. Chem.* 2022; e6547(1-20).
- 2) 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).
- 3) Rutikesh Gurav, Akshay Gurav, Sunita-Salunkhe-Gawali, Sushilkumar Jadhav, Prafulla Choudhari, Sandeep Sankpal, and Shankar Hangirgekar,(2021) Ficus Benghalensis Leaf Extract in Biosynthesis of Fe₃O₄ for Fe₃O₄@Ag-S-CH₂-COOH: A Novel Catalyst for Synthesis of new 3,4-dihydropyrimidin-2(1H)-ones and their Anticancer Evaluation, *Applied Organometallic Chemistry*.
- 4) 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-aminocarbonitrile, *Journal of Molecular Structure* 1259 (2022) 132622.
- 5) Archana Yadav, Pradeep Patil, Dattatray Chandam, Sushilkumar Jadhav, Anil Ghule, Shankar Hangirgekar, Sandeep Sankpal,(2021) Fe₃O₄@SiO₂-SO₃H-DABCO: A novel magnetically retrievable bifunctional catalyst for ecofriendly synthesis of diheteroarylmethanes, *Journal of Molecular Structure*, Vol.1245, 130960.
- 6) Ramchandra Awalekar, Priyanka Mohire, Ajinkya Patravale, Shilpa Salunkhe, Shams Usmani, Dattatray Jamale, Shankar Hangirgekar, Govind Kolekar & Prashant Anbhule,(2021) Total Stereospecific Synthesis of (3E,7Z)-Tetradecadienyl Acetate, the Major Sex Pheromone Component of the Potato Pest *Symmetrischematangolias*, *Chemistry of Natural Product*.(Published on 15 November, 2021)
- 7) Pradeep Patil, Archana Yadav, Laxman Bavkar, Nippu B.N., N. D. Satyanarayan, Ananda Mane, Akshay Gurav, Shankar Hangirgekar, Sandeep Sankpal, (2021) [MerDABCO-SO₃ H]Cl catalyzed synthesis, antimicrobial and antioxidant evaluation and

- molecular docking study of pyrazolopyranopyrimidines, *Journal of Molecular Structure*, Vol.1242, 130672.
- 8) 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.
 - 9) 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.
 - 10)Shivanand Gajare, Audumbar Patil, Shankar Hangirgekar, Sushilkumar Dhanmane, Gajanan Rashinkar,(2020), Green synthesis of quinolines via A³-coupling by using graphene oxide-supported Brønsted acidic ionic liquid, *Research on Chemical Intermediate*,2417-2436.
 - 11)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.
 - 12)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.
 - 13)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.
 - 14)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
 - 15)Shankar Hangirgekar, Shankar Phulwale,(2018),Synthesis, Characterization and biological evaluation of some new Acridine derivatives, *Heterocyclic Letters*, Vol. 8| No.1|95-104.
 - 16)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*, 1-14.

- 17) 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.
- 18) 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.
- 19) Hangirgekar, S. P., Kumbhar, V. V., & Wadwale N. B., (2013), Aqueous phase synthesis of substituted imidazo[1,2-a]pyridine in the presence of β -cyclodextrin, *Der Pharma Chemica*, 5(5), 274-279.
- 20) Hangirgekar, S. P., Kumbhar, V. V., & Wadwale N. B., (2013). One pot synthesis of 1,8-dioxo-octahydroxanthenes in aqueous phase using β -cyclodextrin as an efficient and green catalyst, *Indo American Journal of Pharmaceutical Research*, 4(1), 427-431.
- 21) Deosarkar S. D. and Hangirgekar S.P., (2012) Cu(II) Adsorption from Aqueous Solution by *Punica granatum L. Husk*, *Journal of Chemical and Pharmaceutical Research*, 4(10):4651-4656.
- 22) Hangirgekar, S. P., (2012), Synthesis and Characterization of some biologically active 2, 5-Substituted Oxadiazoles, *Journal of Chemical and Pharmaceutical Research*, 4(5), 2458-2462.
- 23) Hangirgekar, S. P., (2012), Montmorillonite K-10 Catalysed Synthesis of 1-Aryl-3-Alkyl Substituted Indazoles, *Journal of Chemical, Biological and Physical Sciences*, 2(4), 1676-1680.
- 24) Hangirgekar, S. P., (2012), Phenyl-Trimethyl-Ammonium Tribromide: Facile Catalyst for the One Pot Synthesis of Substituted Benzoxazoles, *RJPBCS*, 3(4), 83.
- 25) Hangirgekar, S. P., (2012), A facile β -cyclodextrin-catalyzed synthesis of substituted benzofuran from salicylaldehyde and alpha tosyl ketone, *Journal of Chemical and Pharmaceutical Research*, 4(10), 4642-4645.
- 26) Hangirgekar, S. P., & Shirodkar, S. G., (2010), Selective and efficient oxidation of benzaldehydes to their corresponding methyl esters using PTAB/DIB in presence of methanol, *Int. J. Chem. Sci.*, 8(4), 2557-2562.
- 27) Hangirgekar, S. P., & Shirodkar, S. G., (2011), One Pot Synthesis of Substituted Benzothiazoles from substituted aldehydes and 2-aminothiols using Phenyltrimethylammonium tribromide, *Indo American Journal of Pharmaceutical Research*, 1(1), 153-157.
- 28) Hangirgekar, S. P., & Shirodkar, S. G., (2011), A Regioselective and Stereoselective Methoxy Bromination of Olefins using Diacetoxyiodobenzene and Phenyltrimethyl Ammoniumtribromide, *Oriental Journal of Chemistry*, 27 (1), 179-184.
- 29) Hangirgekar, S. P., & Shirodkar, S. G., (2011), One-pot synthesis of ω -bromoesters from aromatic aldehydes and diols using phenyltrimethylammonium tribromide, *Journal of Chemical and Pharmaceutical Research*, 3(4), 676-679.
- 30) Idhole, S. S., Dhotre, V. B., Gosvami, S. V., Hangirgekar, S. P. & Bhusare, S. R., (2010), L-proline: an efficient catalyst for the synthesis of coumarins via Pechmann reaction, *Int. J. Chem. Sci.* 8 (1), 553-558.

31) Hangirgekar, S. P., & Shirodkar, S. G., (2010), Side chain bromination of 3,4-dihydropyrimidines using Phenyltrimethylammonium tribromide, *Rasayan J. Chem.*, 3(3), 490-492.

Prof. Hangirgekar S. P.