

Curriculum Vitae

Dr. Sachin Vasant Bangale.
Assistant Professor,
Department of Chemistry,
G. M. Vedak College of Science, Tala – Raigad.
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Working Experience:

- 2013 Assistant Professor, Department of Chemistry, G. M. Vedak College of Science, Tala – Raigad (MS) India.

Duties:

- 05 Year Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli (M.S.) India.
- 2016, Member of Organizing Committee State Level One Day Workshop on 'Laboratory Safety' G. M. Vedak College of Science, Tala – Raigad.
- Guest lecturer Doshi Vakil & G.C.U.B. Science & Commerce College, Goregaon Raigad.
- Examiner for Judging of Science Models.
- Guest lecturer in Materials Science Chemistry at Anandibai Pradhan Science College, Nagothane. Dist. Raigad.

Educational Qualifications:

Ph. D. in Chemistry

29/11/2012, Shivaji University Kolhapur, India

Thesis topic: 'studies on characterization and gas sensing properties of oxides and mixed oxide systems'

Research Adviser: Dr. S.R. Bamane, (Shivaji University Kolhapur)

M.Sc. in Chemistry (First class)

Shivaji University Kolhapur, India [2005 –2007]

Thesis topic: Synthesis and Characterization of Quinilone Derivatives

Thesis Adviser: Dr. M.B. Deshmukh, (Shivaji University Kolhapur)

B.Sc. in Chemistry (First class)

Shivaji University Kolhapur, India [2002-2005]

Honors and rewards:

- ❖ "National Citizenship Gold Medal Award", Global Economic Progress and Research Association, Tiruvannamalai, Tamil Nadu, India in Dated 1 May 2018.

- ❖ Karmaveer Bhaurao Patil College Vashi Department of chemistry Vashi Mumbai Dated 30 January 2016 National Seminar, ***Second Prize for Oral Presentation***
- ❖ Excellent Research in college. Award by Dr. Patangrao foundation, Kolhapur 2010.
- ❖ Best Coordination Award, International Year of the Periodic Table of Chemical Elements United Nations Educational Scientific and Cultural Organization, IYPT 2019. ***International***
- ❖ Effect on corona Lockdown on Research and Future prospects, Organized by SPARC Wing (RERF), Brahma Kumaris, Selection on E-Appreciation-of Jewells ***National Level*** Dated 17th April 2021.
- ❖ Vishwabhusan Dr. Babasaheb Ambedkar Pratishthan Pandharpur, 131 Jayanti Mahotsav Committee 2022–23. Dr. Sachin Vasant Bangale was honored with Bharat Ratna Dr. A. P. J. Abdul Kalam Vidya Ratna, Award for his outstanding achievements in the field of science. 15th April 2022. ***State Level.***

Professional development:

- ❖ Recognition: M.Sc. Organic Chemistry by Paper University of Mumbai 2017.
- ❖ Recognition: Ph.D. Guide in the subject of Chemistry, University of Mumbai 2020.
- ❖ Maharashtra Information Technology support center, Career Katta Selection as Taluka Coordinator (2022-23).

Membership of professionals:

- ❖ Life member, Indian Science Congress, Kolkatta.
- ❖ Life member, Association of Chemistry Teacher.
- ❖ Life member of American chemical society

Research interests:

- ❖ Synthesis and developments of bioceramics
- ❖ Synthesis of gas sensing Materials
- ❖ Synthesis of Bioactive materials
- ❖ Catalysis
- ❖ Photo catalysis
- ❖ Nanomaterial's

Teaching experience:

a) UG Teaching: 14 years

- ❖ Lecturer in Chemistry at Dr. Patangrao Kadam Mahavidyalya Sangali (2007 – 2011).
- ❖ Lecturer in Chemistry at Miraj Mahavidyalya Miraj Dist. Sangali (2011 – 2012).
- ❖ Working as a Assistant Professor in Organic Chemistry at Department of Chemistry, G.M. Vedak College of Science Tala Raigad. Since 2013 till date.

b) PG Teaching: 05 years

- ❖ Working as a Assistant Professor in Organic Chemistry at Department of Chemistry, G.M. Vedak College of Science Tala Raigad. Since 20118 till date.

Research Guidance:

- 1) No. of M. Phil awarded : 00
- 2) No. of Ph. D. awarded : 00
- 3) No. of Ph. D. working : 04
- 4) No. of M. Sc. Projects completed : 16

Name of Student	Title of Thesis	Registration
Ms. Mehreen Mustufa Dawre	Green synthesis of microbial metabolic metal oxide nanoparticles and their catalytic and biological applications	2022
Mr. Shahjahan Tamseel Shakeel	Synthesis of mixed metal oxides nanoparticles and investigation of their catalytic and gas sensing properties	2022
Mr. Amol Surendra Rajpurkar	Green synthesis of metal oxide nanoparticles using microorganisms with their biological and catalytic applications	2023
Mr. Yogesh K. Shinde	Synthesis of novel isoxazole derivatives and its screening for biological activity	2023

Certificates and visits to other institutions:

- Orientation Programme Organized by (28 October 2014 to 26 November 2014) UGC Academic Staff College Aligarh Muslim University Aligarh.
- Refresher Course in Degree College Teacher Training Program in Chemistry, (23rd November 2016 to 13th December 2016) Center of Excellence in Science and Mathematics education Indian Institute of Science, Challakere campus at Kudapura Chitradurga District Karnataka India.
- Government of India Ministry of Human resource development, teaching Learning center Ramanujan College University Delhi sponsored by Ministry

of human resource development Pandit Madam Mohan Malaviya National Mission on teachers and teaching. Two Weeks Faculty Development Programme on "managing online classes and co-creating moocs" from April 20 - May 06, 2020.

- FDP on “Evolution from offline to online Teaching” Satish Pradhan Dnyanasadhana College Thane In Association With Department of Information technology University of Mumbai Yashwantrao Chavan Maharashtra Open University Mumbai Regional center and Microsoft, from 30th May 2020 to 3rd June 2020.
- International level One Week Online Staff Development Program on “Introduction to Computers” association with Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Government of India, Organized by Department of Chemical and E&TC Engineering, AISSMS College of Engineering Pune. July 03 to July 09, 2020.
- One Week Online Faculty Development Program on Modern Teaching, Evolution and research Method under UGC Scheme, Organized by Vinayk Rao Patil Mahavidyalaya, Vaijapur Dist. Aurangabad from 2 June to 07 June 2020.
- One Week National Level Online Faculty Development Program on “G Suite and allied Tools in Education Teaching and E Content Development” Organized by Department of Computer Science and Engineering, Sant Gadge Baba Amravati University Amravati from 29 June to 04 July 2020.
- Faculty Development Program on “Research paper and Project Proposal Writing” Under IEEE Organized by the department of Electrical and Electronic Engineering Shree Vidyaniketan Engineering College Sree Sainath, A Rangampet, Triupati from 15 May to 16 May 2020.
- One week pedagogical Training for Teachers on tools for online Teaching Learning and Evaluation, Organized by School of Mathematical Science, Swami Ramanand Teerth Marathwada University, Nanded from 01 July to 06th 2020.
- Inter- Disciplinary and Multilingual – Managing Online Classes and Co-creating MOOCS 4.0 Teaching Learning Centre Ramanujan College

University of Delhi. Government of India Ministry of Human resource development, teaching Learning center Ramanujan College University Delhi sponsored by Ministry of human resource development Pandit Madam Mohan Malaviya National Mission on teachers and teaching. March 11 to March 26, 2021

- Online Refresher course in Chemistry for Higher Education, S.G.T.B. Khalsa College, University of Delhi. SWAYAM ARPIT ONLINECOURSE, S.G.T.B. Khalsa College, University of Delhi. 1st December to 31st March 2021.
- Teaching Learning Centre Ramanujan College, University of Delhi, ministry of education pandit madan mohan malaviya national mission on teachers and teaching, from 30 June – 14 July, 2023 and obtained Grade A.

Languages:

- **English** (writing-very good, reading-very good, speech-very good)
- **Marathi** (writing-very good, reading-very good, speech-very good)
- **Hindi** (writing-very good, reading-very good, speech-very good)

Computer skills:

- **MS-CIT**
- **Programs:** Origin, Chem Office, MS Office, Corel Draw, Photoshop

Research Grants:

- 2016 Present Synthesis and Characterization properties of Mixed Oxide spinel Nanoparticles prepared by combustion route and its application. University of Mumbai Research Project No 329.
- 2020 Present “**Fabrication of metal oxide Nanomaterials by using Green Chemistry Approach and their Applications in Biomedical**” University of Mumbai Research Project No 617. In Progress

Book Published:

- Sachin V. Bangale, Vinay V. Chougule, Microbial contagion in Milk Quality and Health hazard of Raw Milk and Dairy harvest, First Published in December 2022 by for Publishers, Distributors c/o Kalyan West, Kalyan, Mumbai, Maharashtra 421301, India. (ISBN 978-93-5773-824-8).
- Sachin Vasant Bangale, for publication of a book chapter entitled, “**NANOTECHNOLOGY IN DAY-TO-DAY LIFE**” in the book “**Research Trends in Science and Technology Volume II (ISBN: 978-93-88901-71-0)**” published by our publishing house in the month of July, 2023.
- Sachin Vasant Bangale,for publication of a book chapter entitled, “**NEXT GENERATION OIL DRILLING FLUIDS**” in the book “**Research Trends in**

Environmental Science Volume I (ISBN: 978-93-88901-66-6)" published by our publishing house in the month of July,2023.

Publications (Peer Reviewed):

- ❖ **Sachin.V. Bangale**, S.M.Khetre, D. R. Patil, S. R. Bamane, Simple Synthesis of ZnCo_2O_4 Nanoparticles as Gas-sensing Materials, *Sensors & Transducers Journal* Vol. 134, Issue 11 (2011), 95-106.
- ❖ **S.V. Bangale**, D. R.Patil and S. R. Bamane, Nanostructured spinel ZnFe_2O_4 for the detection of chlorine, *Sensors & Transducers Journal* Vol. 134, Issue 11 (2011), 107-119.
- ❖ **Sachin V. Bangale**, R.D.Prashkale and S. R. Bamane, Preparation and electrical properties of nanocrystalline MgFe_2O_4 oxide by combustion route, *Journal of Chemical and Pharmaceutical Research* Vol. 3 No. 6, (2011), 527-535.
- ❖ **Sachin V. Bangale** and Sambhaji R. Bamane, Preparation, wettability and electrical properties of nanocrystalline ZnCr_2O_4 oxide by combustion route, *Archives of Applied Science Research* Vol. 3 No. 4, 2011, 300-308 (online) 0975- 508X.
- ❖ **Sachin. V. Bangale**, S. M. Khetre and S. R. Bamane, Synthesis, characterization and hydrophilic properties of nanocrystalline ZnCo_2O_4 Oxide by combustion route, *Der Chemica Sinica*, Vol.3 No.4 2011, 303-311 (online) 0976-8505.
- ❖ **Sachin V. Bangale**, D.R.Patil and S. R. Bamane, Synthesis, characterization and hydrophilic properties of nanocrystalline ZnFe_2O_4 oxide by combustion route, *Archives of Applied Science Research* Vol. 3 No. 4, 2011, 471-479 (online) 0975-508X.
- ❖ **Sachin. V. Bangale**, S. M. Khetre and S. R. Bamane, Synthesis, characterization and electrical properties of nanocrystalline ZnMgO oxide by combustion route, *Der Chemica Sinica* Vol.2, No 5, 2011, 22-29 (online) 0976-8505.
- ❖ Sanjay M. Khetre, **S. V.Bangale**, Sambhaji R.Bamane, Use of mixed metal oxide as a catalyst in the decomposition of hydrogen peroxide, *Advances in Applied Science Research* Vol. 2, No 2, 2011, 252-259. (Online) 0976- 8610.
- ❖ S. M. Khetrea, H. V. Jadhav, **S. V. Bangale**, S. R. Bamane, Solar photodegradation of methylene blue by LaMnO_3 nanorods as a

heterogeneous catalyst, *Archives of Applied Science Research* Vol. 3 No. 4, 2011, 450-462 (online) 0975-508X.

- ❖ **S.V. Bangale**, V.V. Chaugule, Microbial Gas Sensing Properties of *Basillus Subtilis* with Mixed Metal Catalyst $MgFe_2O_4$, *International Journal of Microbiology Research*. Vol. 3 Issue 3, 2011, 157-163.
- ❖ **Sachin. V. Bangale**, S. R. Bamane, Nanostructured $MgFe_2O_4$ Thick Film Resistors as Ethanol Gas Sensors Operable at Room Temperature, *Sensors & Transducers Journal*, Vol. 137, Issue 2, February 2012, pp.176-188.
- ❖ **Sachin. V. Bangale**, S. R. Bamane, Preparation and Study of H_2S Gas Sensing Behaviour of $ZnFe_2O_4$ Thick Film Resistors, *Sensors & Transducers Journal*, Vol. 137, Issue 2, February 2012, pp. 123-136.
- ❖ S.M. Khetre, H.V.Jadhav, S.R.Kulal, P.N.Jagadale, **S.V. Bangale**, S.R.Bamane, Auto-Combustion Synthesis of Nanocrystalline $FeCrO_3$ *Nanoscience, Technology and Societal Implications (NSTSI), 2011 International Conference on Issue Date: 8-10 Dec. 2011.*
- ❖ **Sachin V. Bangale**, S. R. Bamane, Synthesis, characterization and electrical properties of nanocrystalline $ZnFe_2O_4$ oxide by combustion route, *Research Journal of Recent Sciences*, Vol. 1 (ISC-2011), 202-206 (2012).
- ❖ **S. V. Bangale**, R. D. Prakshale, S. R. Bamane, Nanostructured $Ni_{0.5}Zn_{0.5}Ce_3O_5$ Oxide Based Electronic Nose Sensitive to Ammonia at Operable Temperature, *Sensors & Transducers Journal*, Vol. 139, Issue 4, April 2012, pp. 109-121.
- ❖ **S. V. Bangale**, S. R. Bamane, Synthesis, characterization and electrical properties of nanocrystalline $ZnCr_2O_4$ oxide by combustion route, *Journal of Materials Science: Materials in Electronics* : 24, pages 277–281 (2013)
- ❖ K.A.Khamkar, **S. V. Bangale**, S. R. Bamane, V.V.Dhapte, Preparation, Wettability properties of perovskite-type composite oxide nanocrystals by Combustion Route, *Archives of Applied Science Research*, 2012, 4 (3):1522-1527.
- ❖ Ingle Subhas, **Bangale Sachin**, Comparative Study of Seed Germination and Percentage of Fungal Infection of Ashwagandha (*Withania somnifera* (L.) Dunal), *Journal of Recent Sciences*, Vol. 1(7), 80- 82, July (2012).

- ❖ K.A.Khamkar, **S. V. Bangale**, S. R. Bamane, V.V.Dhapte, Some investigation on nanocrystalline LaCoO₃ by combustion method, *Archives of Applied Science Research*, 2012, 4 (3):1559-1563.
- ❖ K. A. Khamkar, **S. V. Bangale**, S. R. Bamane and V. V. Dhapte, Preparation and characterization of perovskite LaAlO₃ nanocrystals, *Der Chemica Sinica*, 2012, 3(4):891-895.
- ❖ **S.V. Bangale**, K.M. Garadker, S.R.Bamane, Resister Based on ZnFe₂O₄ Thick Film as NH₃ Sensors, *Journal of Science Information Special Issue* ISSN 2229- 5836, 4 April (2012) 03-12.
- ❖ **Sachin. V. Bangale**, Reshma. D. Prakshale, Kiran V.Madhale, Damayanti. R. Kamble, Ravindra. N. Dhale, Sambhaji. R. Bamane, Synthesis and gas sensing properties of nanocrystalline ZnO by co-precipitationTechnique, *International Journal of Porous Materials* (2012); 2(4): 20-24.
- ❖ K. A. Khamkar, **S. V. Bangale**, V. V. Dhapte, D. R. Patil, S. R. Bamane, A Novel Combustion Route for the Preparation of Nanocrystalline LaAlO₃ Oxide Based Electronic Nose Sensitive to NH₃ at Room Temperature, *Sensors & Transducers Journal*, Vol. 146, Issue 11, November 2012, pp. 145-155.
- ❖ **S. V. Bangale**, R. D. Prakshale, S. R. Bamane, Nanostructured CdFe₂O₄ Thick Film Resistors as Ethanol Gas Sensors *Sensors & Transducers Journal*, Vol. 146, Issue 11, November 2012, pp. 133-144.
- ❖ **Sachin. V. Bangale**, S. M. Khetre and S. R. Bamane, Synthesis, characterization and hydrophilic properties of nanocrystalline ZnCo₂O₄ oxide by combustion route, *Der Chemica Sinica* Vol.2, No 4, 2011, 303-311. (online) 0976-8505.
- ❖ **Sachin Bangale**, Vinay Chaugule, Reshma prakshale, and Sambhaji Bamane Microbial Gas sensing property of Pseudomonas aeruginosa with mixed metal catalyst MgFe₂O₄, *RJPBCS* January-March 2013 Volume 4 Issue 1 Page No. 350.
- ❖ Kiran V. Madhale, Maheshkumar Y. Salunkheb and **Sachin V. Bangale** Structural, morphological and hydrophilic properties of nanocrystalline NiFe₂O₄ by combustion route, *Archives of Applied Science Research*, 2013, 5 (1):62-67.
- ❖ **Sachin Bangale**, Reshma prakshale, Damayanti kambale, Arun chopade, 3 Chandrakant kolekar, 1 Sambhaji bamane. A New Hydrogen Sensor with

Nanostructured Zinc Magnesium Oxide, *Sensors & Transducers*, Vol. 149, Issue 2, February 2013, pp. 29-36.

- ❖ **Sachin Bangale** , Sambhaji Bamane, Green synthesis of CdFe₂O₄ nanoparticles and their application for ethanol vapour sensing , *Applied Science Innovations Pvt. Ltd., India Carbon – Sci. Tech.* 5/1 (2013) 231 – 235.
- ❖ **Sachin V. Bangale**, Study on Synthesis Characterization and Hydrophilic properties of CdFe₂O₄ Nanoparticles, *International Journal of Porous Materials*, 2013; 3(2): 10-13.
- ❖ **Sachin Bangale**, Vinay Chaugule, Reshma Prakshale and Sambaji Bamane Microbial gas-sensing property of *Escherichia coli* with mixed metal catalyst MgFe₂O₄, *CURRENT SCIENCE*, VOL. 105, NO. 7, 10 OCTOBER 2013.
- ❖ **S. V. Bangale**, J.V.Deore, N.A.Degwekar, R.D.Prakshale, S. R. Bamane Nanostructured spinel ZnCr₂O₄ for the detection of Ethanol gas, National Conference on Drug Designing and Discovery DDD 2013.
- ❖ **S. V. Bangale**, nanostructured ZnCo₂O₄ thick film as an ethanol sensor, *international journal on smart sensing and intelligent systems* vol. 7, no. 1, MARCH 2014
- ❖ **Sachin Bangale**, Growth response of *AZOTOBACTER CHROCCOCUM* SPP. against ZnFe₂O₄: a vitro analysis, *European Journal of Molecular Biology and Biochemistry*. 2014; 1(3):91-95.
- ❖ Pravin Chavan, Pravinkumar Nagore, **Sachin Bangale** Evaluation of kal river water quality at Mangaon, *International Journal of Green Chemistry and Bioprocess*, 2014; 4(4): 14-16.
- ❖ Pravin Chavan and **Sachin Bangale**, A comparative study of groundwater with special reference to fluoride concentration in some parts of Raigad District, (MS) India, *Der Chemica Sinica*, 2014, 5(5): 77-80
- ❖ Pravin Chavan, Jagdish Thakur and **Sachin Bangale**, Groundwater quality with special reference to fluorosis of Jehur-mungsapur Region, Tehsil Kannad, District Aurangabad, (MS) India, *Advances in Applied Science Research*, 2015, 6(1):1-4.
- ❖ Bhaware B.G., **Bangale S.V.**, Alternative Methods for Calculating Catch Per Unit Effort (CPUE) for Fish Catch by Trawl Net in Central Arabian Sea of Srivardhan Fish Landing Centre at Raigad District through Utilization of PFZ Advisories, Maharashtra State, *International Journal for Pharmaceutical Research Scholars*, V-4, I-1, 2015.
- ❖ Pravin Chavan, Pravinkumar Nagore, Kanchan Mane, **Sachin Bangale**, Knoevenagel Condensation by Employing Natur Catalyst A Green Chemistry Approach, *International Journal for Pharmaceutical Research Scholars*, Page No 34-38.2015.

- ❖ **Sachin Bangale**, Auto-Combustion Synthesis of Nanocrystalline BASNO₃, Indo Am. J. P. Sci, 2018(Suppl.); 05(01).
- ❖ Dr. N. A. Degwekar, **Dr. S. V. Bangale**, Effect of Equatorial Field Variation in Macrocyclic Complexes of Biacetyl- Bis (Mercaptoethylimino) Nickel (II) of N₂S₂ Type Donor Ligand, Edu World, ISSN: 2319-7129, Volume IX, Number 4, 2018 page No. 225-229
- ❖ Kamble D. R, **Bangale S. V**, Ghotekar S. K, Bamane S. R. Efficient Synthesis of CeVO₄ Nanoparticles Using Combustion Route and Their Antibacterial Activity. J Nanostruct, 2018; 8(2):144-151. DOI: 10.22052/JNS.2018.02.004.
- ❖ **Sachin Bangale**, Suresh Ghotekar, Bio-fabrication of Silver nanoparticles using *Rosa Chinensis* L. extract for antibacterial activities, Int. J. Nano Dimens., 10 (2): 217-224, Spring 2019
- ❖ Suresh Ghotekar, Shreyas Pansambal, Sharad P. Pawar, Trupti Pagar, Rajeshwari Oza, **Sachin Bangale**, Biological activities of biogenically synthesized fluorescent silvernanoparticles using *Acanthospermum hispidum* leaves extract, SN Applied Sciences (2019) 1:1342 | <https://doi.org/10.1007/s42452-019-1389-0>
- ❖ Pravin Chavan, **Sachin Bangale**, Dattatraya Pansare, Rohini Shelke, Shivaji Jadhav, Shrikrushna Tupare, Dhanraj Kamble, Synthesis of substituted pyrimidine using ZnFe₂O₄ nanocatalyst via one pot multi-component reaction ultrasonic irradiation, J Heterocyclic Chem. 2020;1–8.
- ❖ D. R. Kamble, **S.V. Bangale**, S. R. Bamane, Nanostructured tetragonal crystal NdVO₄ for the detection of liquefied petroleum gas, NANOSYSTEMS: PHYSICS, CHEMISTRY, MATHEMATICS, 2021, 12 (2), P. 199–209, DOI 10.17586/2220-8054-2021-12-2-199-209
- ❖ Vinay V. Chaugule, **Sachin V. Bangale**, A. M. Deshmukh, Synthesis of endophytic actinomycetal Cu oxide nanoparticles and their antagonistic activity against common gram positive and gram negative pathogens, Journal of Information and Computational Science, Volume 11 Issue 8, 2021, page 386
- ❖ Vinay V. Chaugule, **Sachin V. Bangale**, Green Synthesis of Magnesium Nanoparticle from actinomycetes and their therapeutic application, Journal of advanced Scientific Research, 2021, 12(3), 2021.

- ❖ **Sachin Bangale**, Valmik Jondhale, Dattatraya Pansare & Pravin Chavan (2021): Reusable $ZnCr_2O_4$ Nano Catalyzed One Pot Three-Component Cycloaddition Reaction for Synthesis of Azetidine Derivatives under Itrasound Irradiation, Polycyclic Aromatic Compounds, 2021. DOI: 10.1080/10406638.2021.1983617.
- ❖ Amit S. Varale, Yashodhara S. Varale, **Sachin V. Bangale**, Milind B. Ubale, G. S. Gokavi, Oxidation of benz and m-toluic acid hydrazides by thallium(iii) in acidic medium, Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences, Special Issue National Conference, Resent trends in Pure and Applied Science 21st January and 22st January 2022.
- ❖ Suresh Ghotekar, Shreyas Pansambal, Van-Huy Nguyen, **Sachin Bangale**, Kun-Yi Andrew Lin, H. C. Ananda Murthy, Rajeshwari Oza, Spinel $ZnCr_2O_4$ nanorods synthesized by facile sol-gel auto combustion method with biomedical properties, Journal of Sol-Gel Science and Technology, 2022, <https://doi.org/10.1007/s10971-022-05964-0>
- ❖ R. D. Prakshale, **S. V. Bangale**, M. M. Kamble and S. B. Sonawale, Synthesis and Characterization of $Zn_{0.5}Co_{0.5}Fe_2O_4$ Nanoparticles for Gas Sensing Applications, ECS J. Solid State Sci. Technol. 12 087003, 2023. DOI 10.1149/2162-8777/aced6b.
- ❖ **S. V. Bangale**, D. R. Kamble, R. D. Prakshale, and B. G. Bharate, Nanostructured $CeVO_4$ oxide, responsive to LPG at usable temperature: synthesis and characterization, J Mater Sci: Mater Electron (2023) 34:1785. <https://doi.org/10.1007/s10854-023-11194-z>
- ❖ Reshma Prakshale, **Sachin Bangale**, Mahesh Kamble, Sanjay Sonawale, Synthesis, study and characterization of spinel $CoFe_2O_4$ for the ethanol gas-sensing applications, J Mater Sci: Mater Electron (2023) 34:1852. <https://doi.org/10.1007/s10854-023-11253-5>

Community work:

- ❖ M.Sc. Coordinator In the subject of Organic Chemistry.
- ❖ In-charge of Examination Committee, of G. M. Vedak College of Science.
- ❖ In-charge of Avishkar Research Convention (Chemistry), of G. M. Vedak College of Science.
- ❖ Member of Science Association, Discipline Committee, Library Committee, College Magazine Committee, Teacher & Student Grievance, Science association and Research Committee of G. M. Vedak College of Science.

Overall articles presented in state, national and international seminar, conference, workshop attended:

- ❖ **07** International
- ❖ **31** National
- ❖ **04** State

Overall articles presented in state, national and international seminar, conference, workshop attended since January 2013:

- ❖ **Sachin Bangale** ,Two day 4th Them meeting on Micro- Nano Technology in service of rural india, Jointly organized by Bhabha atomic research center Mumbai & SVERI's College of Engineering Pandharpur, Application of Nanotechnology in gas sensor. April 12-13 2015, **National**.
- ❖ **Sachin Bangale**, one day workshop on revised syllabali of S. Y. B.Sc.- Chemistry, Anandibai Pradhan Science College Nagothane Tal Roha Raigad , university of Mumbai. April 28 2015, **Regional**.
- ❖ **Sachin Bangale**,My Education for my society, One day international society of science & technology Mumbai & satyashodhak chatrapati vichar aani jagruti manch jointly organized state level, 11January 2015, **State**.
- ❖ **Sachin Bangale** ,National Conference on Chemistry of Chalcogens and other related topics, Defence institute of advanced technology deemed university Girinagar Pune, 12 & 13January 2015, **National**.
- ❖ **Sachin Bangale**, Combustion route synthesis characterization and gas sensing properties of mixed oxides, New Horizons in Chemical & Environmental Science, Karmaveer Bhaurao Patil College Vashi Department of chemistry Vashi Mumbai,30January 2016, **National**.
- ❖ **Sachin Bangale**, One day workshop on revised syllabali of T. Y. B.Sc.- Chemistry, Doshi Vakil Arts & Goregaon Co-Operative Urban Bank Science & Commerce College Goregaon Raigad 402103 , university of Mumbai, 02 March 2016, **Reginal**.
- ❖ **Sachin Bangale**, Synthesis and characterization properties of Zn MgO by combustion, New Horizona in Synthesis and Materials Chemistry,

Department of Chemistry University of Mumbai, November 26- 28 2015, *International*.

- ❖ *Sachin Bangale*, Simplifying Examination New Rules and CAS and its process, J.B.Sawant Education Societys Tikambhai Metha Commerce College Mangaon Dist Raigad, Nonember 21 2015, *District*.
- ❖ *Sachin Bangale*, International Conference on Dr. Babasaheb Ambedkars Thoughts, Government of Maharashtra Social Justices and Special Assistances Department Dr. B. R. Ambedkar Research & Training Institue Barti Pune .April 14-15 2016, *International*.
- ❖ *Sachin Bangale*, Dr. Babasaheb Ambedkars Thoughts, Dr. B.R. Ambedkars Philosophy on Contemporary Issues, D.G. Tatkare Arts & Commerce College Tala Tal. Tala Dist. Raigad, March 13 2016, *National*.
- ❖ *Sachin Bangale*, S.M. Joshi College, Hadapsar Pune, Two Day International Conference on Advanced in Chemical Science 18th and 19th December 2018, *International*.
- ❖ *Sachin Bangale*, MHRDC Sponsored Teaching Learning Center Under PMMMNMMT Savitribai Phule Pune University Three Day Teaching Learning program on A Contemporary approach towards teaching and learning Meditational Chemistry on 19, 20 and 21 December 2019. *National*.
- ❖ *Sachin Bangale*, Pyrimidine 3 – Carbonitrile Using $ZnFe_2O_4$ as a Nano Catalyst, National Conference on Nanostructured Materials and Nanotechnology. Which will be held Department of Chemistry and Physics of M.S.P. Mandals, Shri Muktanand College, Gangapur, Dist Aurangabad held on 1st December 2018. *National*.
- ❖ *Sachin Bangale*, Structural, Morphological and Electrical Properties of Nanocrystalline spinel $CdFe_2O_4$ by combustion route, which will be held Department of Chemistry, Anantrao Powar College, Pirangut, Tal – Mulshi, Dist Pune Sponsored by Savitribai Phule Pune University. Two Day National Conference on Recent Interdisciplinary Approaches In Chemical, Physical and Life Science, Held During 11th and 12th January 2019. *National*.
- ❖ *Sachin Bangale*, Preparation, Electrical Properties perovskite- Zn composite Oxide Nanocrystals by Combustion Route. Which will be held on G. M. Vedak College of Science Tala Raigad, National Conference on Multi-Disciplinary Research and Practices- 2020, on 15th February 2020, *National*.

- ❖ **Sachin Bangale**, presented research paper on Preparation and electrical properties of nanostructured cubic BaSnO₃ by combustion route in International E-Conference on “Futuristic Aspects in Nanotechnology” organized by Department of Chemistry, Karmaveer Bhaurao Patil College, Vashi under the Aegis of RUSA on 15th& 16th, March 2021. **International**

- ❖ **Sachin Bangale**, Participated and presented paper entitled, Synthesis, characterization and gas sensing study of NiO thick film sensor towards Ethanol, Acetone, NH₃ and CO₂ in the Sixth International Conference on Advances in Materials Science (Online) (ICAMS –2021) organized by Post – Graduate Department of Physics and IQAC of Raje Ramrao Mahavidyalaya, Jath –416 404, Dist –Sangli, Maharashtra, India during 23rd-24th, April 2021. **International.**

- ❖ **Sachin Bangale**, participated and presented Poster titled “**Deteriorated water mediated culture media**” at International Conference on Fundamental and Applied Sciences (ICFAS2021) organized by Bharatiya Vidya Bhavan’s Hazarimal Somani College of Arts and Science, Shri Manubhai Maneklal Sheth Junior College of Arts and Science and Jayaramdas Patel College of Commerce and Management Studies, K. M. Munshi Marg, Chowpatty Mumbai 400007(Affiliated to University of Mumbai) Faculty of Science and I.Q.A.C. from 24th March 2021 to 26th March 2021. **International.**

- ❖ **Sachin Bangale**, Participated and presented paper entitled Synthesis, Characterization Mixed Oxide Nanoparticles and their Gas sensing application, BIT 10th Annual Congress of Nano Science and Technology - 2021 Nano S & T august 26- 28 ,2021, **Dalian, China International.**

- ❖ **Sachin Bangale**, Participated and presented paper entitled Mixed Metal Oxides as Gas Sensor –A Mini Review, “Recent Trends in Chemical Science, Physical Science, Life Science and Computer Technology (ICRTCPLCT– 2022)” Anjuman Islam Janjira Degree College of Science, Murud Janjira- Raigad. **International.**

- ❖ **Sachin Bangale**, Participated and presented paper entitled Combustion Route of Synthesis of Nanoparticles of MgFe₂O₄ and XRD, TEM and VSM Study, Dapoli Urban Bank Senior Science College, Dapoli-Ratnagiri (MH), Emerging Trends in Chemical Science held at 17th February 2023 **International.**

- ❖ **Sachin Bangale**, Participated and presented paper entitled Current Trends in SnO₂ nanostructure based for gas sensors, Anjuman Islam Janjira Degree College of Science, Murud Janjira- Raigad, and Recent Trends in Chemical Science, Physical Science, Life Science and Computer Technology (ICRTCPLCT 2023, **International.**

- ❖ *Sachin Bangale*, Participated and presented paper entitled, Anjuman Islam Janjira's Anjuman Islam Janjira Degree College of Science, participated presented the research/ review paper entitled as Current Trends in SnO₂ nanostructure based for gas sensors in International E Conference on Recent Trends in Chemical Science, Physical Science, Life Science and Computer Technology (ICRTCPLCT 2023 organized by Anjuman Islam Janjira Degree College of Science, Murud Janjira Raigad on 15th March 2023. **International.**
- ❖ *Sachin Bangale*, This certificate is proudly presented to for paper presentation entitled Combustion Route of Synthesis of Nanoparticles of MgFe₂O₄ and XRD, TEM and VSM Study at the International Seminar on Emerging Trends in Chemical Science held at 17th February 2023. **International.**
- ❖ This is to certify that, Oral Presentation in International e-Conference on "Advancements in Material Science: Trends and Applications (ICAMSTA-2024)" on the topic entitled Synthesis, Characterization Mixed Oxide Nanoparticles and Their Gas Sensing Application. Rayat shikshan sanstha's, mahatma Phule arts, science and commerce college, panvel. District- raigad. (ms) India. 410 206, (ICAMSTA-2024), 25th January, 2024. **International.**

Webinar attended:

❖ 05 International

❖ 25 National

Citations:

	Google Scholar	Scopus
Total number	471	252
h-index	14	12
i-10 index	17	

Reviews:

- ❖ Issues in Biological Sciences and Pharmaceutical Research.
- ❖ Journal of Nanotechnology.
- ❖ Materials Letter.
- ❖ Analytical Science.

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- Nanoscience and Nanometrology

I hereby declare that the particulars given above are true to the best of my Knowledge and belief.

Date:

Yours sincerely,

Place: Tala

(Dr. S.V. Bangale)