

CURRICULAM VITAE



PERSONAL INFORMATION

NAME: Dr. NILESH VITTHALRAO GANDHARE

DESIGNATION: Assistant Professor

DATE OF BIRTH: 16/10/1981

DATE OF APPOINTMENT: 27/09/2010

DATE OF SUPERANNUATION : 31/10/2041

AREA OF SPECIALIZATION : Inorganic Chemistry

**ADDRESS: Nabira Mahavidyalaya, Katol,
Dist. Nagpur, Maharashtra (INDIA)-441302**

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EDUCATIONAL QUALIFICATION

- ❖ **Ph.D. [CHEMISTRY] from RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY (2007)**
“Synthesis, Characterization and Application of Nanomaterials”

❖ **M.Phil. [CHEMISTRY] from ALAGAPPA UNIVERSITY, KARAIKUDI, TAMILNADU, INDIA (2008).**

“Quality of Water around Mohata Textile Cotton Mill, Hinganghat”

❖ **SET Maharashtra State Eligibility Test for Lectureship, Maharashtra (Sept. 2009)**

❖ **M.Sc. Department of Chemistry, Campus Amravati Road Rashtrasant Tukadoji Maharaj Nagpur University Nagpur, Maharashtra, India(2004)**

❖ **B. Ed. Mahatma Jyotiba Fule, Pawan Bhumi, Nagpur, Maharashtra, India (Aug 2006)**

❖ **B.Sc. R. S. Bidkar College, Hinganghat, Dist Nagpur, Maharashtra, India 2002.**

❖ **i) Full Time: (Since 2010)**

❖ **ii) Part Time: Academic Session 2008-2010:** Worked as Contributory Lecturer in Department of Chemistry, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, Maharashtra India.

❖ **Academic Session 2008-2010:** Worked as Contributory Lecturer in Department of Chemistry, Dr. Ambedkar College, Nagpur, Maharashtra India.

❖ **Academic Session 2008-2010:** Worked as Contributory Lecturer in Department of Chemistry, Hislop College, Nagpur, Maharashtra, India.

❖ **Academic Session 2004-2005:** Worked as Contributory Lecturer in Department of Chemistry, R. S.Bidkar Arts, Commerce and Sciences College, Hinganghat, Dist. Nagpur, Maharashtra India.

❖ **Academic session 2017-2022**

❖ **: Working as Coordinator of PG Chemistry in Nabira Mahavidyalaya Katol.**

❖ **iii) Any Other Experience Other Than Teaching:**

- ❖ Worked at **Regional Forensic Science Laboratory, Nagpur** in **Toxicology** Winter attachment Programme from **14th Oct 2013 to 11th Nov 2013**.

- ❖ Training Program on Thin Film Synthesis and Characterization techniques **8th -10th May 2014** in Sathyabhama University, Chennai-600119

BOOKS PUBLISHED

1. **Textbook of Inorganic Chemistry** B.Sc-I Semester-I Paper-I, G. C. Publisher. ISBN No: 978-93-82962-02-1: Year 2013
2. **Text book of Physical Chemistry** B.Sc-I Semester-I paper-II, Sai Jyoti Publication. ISBN: 978-93-81-432-79-2 : Year 2014
3. **A textbook of Chemistry** B.Sc-II Semester-IV, Sai Jyoti Publication ISBN: 978-93-81432-48-8 : Year 2015
4. **A textbook of Chemistry** B.Sc-II Semester-V, Sai Jyoti Publication ISBN: 978-93-86011-32-9: Year 2016
5. **A textbook of Chemistry** B.Sc-I Semester-II, Sai Jyoti Publication ISBN: 978-93-81432-04-4 :Year 2016
6. **Safe Work Practices in Handling of Hazardous Drugs**, Swastik Publications New Delhi ISBN: 978-81-949757-5-5 : Year 2021
7. **Nanotechnology**, Swastik Publications New Delhi ISBN: 978-81-951860-5-3: Year 2021
8. **Text book of Chemistry** B.Sc-I Semester-I, Sai Jyoti Publication. ISBN: 978-93-91201-48-7: Year 2021
9. **Text book of Chemistry** B.Sc-I Semester-II, Sai Jyoti Publication. ISBN: 978-93-91201-38-8: Year 2022
10. **Text book of Chemistry** B.Sc-II Semester-IV, Sai Jyoti Publication. ISBN: 978-93-91201-15-9: Year 2022

CONSULTANCIES/ PATENTS

1. **Smart Irrigation Enriched with Fertilizer Mixing and Water Wastage Reduction Using Deep Learning Techniques**, AU 2021100962 A4(Granted April 2021)
2. **System and Method for Modelling Molecular Docking to Generate Better Docking scores using deep learning**,202141057601 A(Published Feb.2022)

PAPERS PUBLISHED IN JOURNAL/ CONFERNCES

1. Investigation of mechanistic interactions between Rifampicin and bovine serum albumin in the presence of different surfactants, Sampat R. Shingda, Parvez S. Ali, **Nilesh V. Gandhare**, Naziyana B.Pathan, Nizamul H. Ansari, Journal of Dispersion Science and Technology, 2021 <https://doi.org/10.1080/01932691.2021.1997759>
2. An expeditious one pot green synthesis of novel bioactive 1,4-dihydropyridine derivatives at ambient temperature and molecular modelling, Kailas A.More, **Nilesh V. Gandhare**, Parvez S. Ali, Naziyana B. Pathan, Khalid M. Al-Mousa, Current Research in Green and Sustainable Chemistry,2021,4,100108 <https://doi.org/10.1016/j.crgsc.2021.100108>
3. An alternative process for one pot multicomponent synthesis of substituted 2,4,5-triphenylimidazoles using activated Fuller's earth as catalyst and molecular modeling data,Jay A. Tanna, Parvez S.Ali, **Nilesh V.Gandhare**, Lucky R. Agrawal,Saurabh S. Upare,Khalid M Al Mousa, Chemical data Collections,2021,33,100705 DOI:[10.1016/j.cdc.2021.100705](https://doi.org/10.1016/j.cdc.2021.100705)
4. Studies on Preliminary Phytochemical Analysis and antimicrobial activity of root of Aconitum ferrox wall(Vatsanabh), Mangesh B. Thakre,Akshay N. Patil, **Nilesh Gandhare**,Sudhanshu Kharkate, Sandeep Hate, Priya Thakre, Rakesh Naktode,International Journal of Researches in Biosciences, Agriculture and Technology, 2021, II(IX),103-112. <http://doi.org/10.29369/ijrbat.2021.02.1.0017>
5. Synthesis and Application of Copper Ferrite Nanoparticles in Photo-Catalytic Degradation of Organic Dyes: A Step Towards Sustainable Environment,Santosh Jengathe, **Nilesh Gandhare**, Parvez Ali, Mangesh B.Thakre, Kailas A. More,Nilesh G. Jadhao,Journal of Advanced Scientific Research, 2021,12,209-218.

6. Preliminary Phytochemical, Antimicrobial and Antioxidant study of ethanol extract of leaves of *Scoparia Dulcis* var. *Abrahamii*, Pravin S. Jogi, Prashant Muskawar, **Nilesh V. Gandhare**, *The International Journal of analytical and experimental modal analysis*, 2021, XIII(III), 1459-1468.
7. Antisolar study of leaves extract of *Calotropis Gigantea* in acetone and water solvent, **N.V. Gandhare**, N.C.Kongre, Dhanshree Ridhorkar, Kailas More, *Journal of Interdisciplinary Cycle Research*, 2021, XIII(I), 1527-1535.
8. Study of optical properties of Europium doped strontium sulphate synthesized by solid state metathesis, A.M. Muke, M.N. Lokhande, N.S. Ugemuge, **Nilesh V. Gandhare**, *International Journal of analytical and experimental modal analysis*, 2021, XIII(I), 1035-1043.
9. Comparative study of leaves extracts of *Calotropis gigantea* in various solvent as an antisolar, N.C. Kongre, **N.V. Gandhare**, Dhanashri Ridhorkar, Hemant Alone, *The International Journal of analytical and experimental modal analysis*, 2021, XIII(I), 158-166.
10. Computer Aided Design And Synthesis, Characterization of New Phenothiazine Derivatives of Sulfonamide Dyes as New Potential Anticancer Agent, **Nilesh Gandhare**, Manoj D. Shanti, Kaveri D. Shanti, *Journal of Interdisciplinary Cycle Research*, 2020, XII(IX), 2468-2480.
11. Investigation of Pharmacophores sites of Monocyclic β -lactams Bearing N-phenazone Side chain as Multitherapeutic Agents: Synthetic, Theoretical and Experimental Bio-organic Chemistry, **Nilesh V. Gandhare**, Parvez S. Ali, Khalid M Al Mousa, *Journal of Interdisciplinary Cycle Research*, 2020, XII(VIII), 2305-2319.
12. QSAR model for the selected Ethyl 1,2,3,6-tetrahydro-4-methyl-2-oxo/thioxo-6-phenyl-1-(4,5-diphenyl-1H-imidazol-2-yl) pyrimidine-5-carboxylates: Synthesis and biological evaluation, **Nilesh V. Gandhare**, Naziyanaz B. Pathan, Khalid M Al Mousa, Parvez S. Ali, *International Journal of analytical and experimental modal analysis*, 2020, XII(VII), 1715-3743.
13. Nickel oxide Nanoparticles: An efficient catalyst for solvent free green synthesis of Hexahydropyrimidines and Their Spiro Analogues, Jay A. Tanna, **Nilesh V. Gandhare**, Dr.G.R. Mehta, Dr.R.B.Patil, *Sustainable Development of Natural Resources Challenges and Solutions*, Mount Hill Publishing Company, 2020, 5, 130-135
14. Synthesis of Molybdenum oxide (MoO_2) Nanoparticles: Microscopic Investigation, an efficient catalyst for solvent free green synthesis of 1,8-dioxodecahydroacridine

- derivatives, Jay S. Tanna, **Nilesh V. Gandhare**, G. H. Mehta, .B. Patil, Rainbow, 2018, Vol. 4, 155-165
15. Cu nanoparticles : An Efficient Catalyst for the Synthesis of Benzimidazole Schiff's Bases, **Nilesh V. Gandhare**, Jay Tanna, Manoj Shanti, International Journal in Physical and Applied Sciences, 2017, 4(8), 90-105.
 16. Histidine Capped ZnO Nanoparticles: An Efficient Synthesis, Characterization and Effective Antibacterial Activity. Jay A. Tanna, Ratiram Gomaji Chaudhary, **Nilesh V. Gandhare**, Alok R. Rai, Harjeet D. Juneja. *BioNanoScience (Springer)* 5, 2015, 123-134. [DOI: 10.1007/s12668-015-0170-0](https://doi.org/10.1007/s12668-015-0170-0)
 17. Thermal decomposition kinetics of some coordination polymers of fumaroyl bis(paramethoxyphenylcarbamide) using DTG/DTA techniques, Ratiram Gomaji Chaudhary, Parvej Ali, **Nilesh V. Gandhare**, Jay A. Tanna, Harjeet D. Juneja, *Arabian Journal of Chemistry (Taylor & Francis)*, 2019, 12(7)1070-1082 [DOI: 10.1016/j.arabjc.2016.03.008](https://doi.org/10.1016/j.arabjc.2016.03.008). (Impact Factor: 3.613)
 18. Alumina nanoparticles: A new and reusable nano catalyst for the solvent free synthesis of Dihydropyrimidinone derivatives. Ratiram Gomaji Chaudhary, Jay Tanna, **Nilesh V. Gandhare**, Harjeet D Juneja. *Advanced Materials Letters* 2016, 7(8), 100-150. [DOI: 10.5185/amlett.2016.6245](https://doi.org/10.5185/amlett.2016.6245). (Impact Factor: 1.90)
 19. Silica-coated nickel oxide a core-shell nanostructure: synthesis, characterization and its catalytic property in one-pot synthesis of malononitrile derivative, Ratiram Gomaji Chaudhary, J. A. Tanna, A. Mondal, **N. V. Gandhare** & H. D. Juneja, *Journal of the Chinese Advanced Materials Society, (Published online) (Taylor & Francis)*, 2017, 5(2), 103-117. [DOI: 10.1080/22243682.2017.1296371](https://doi.org/10.1080/22243682.2017.1296371).
 20. Synthesis of nickel nanoparticles: Microscopic investigation, an efficient catalyst and effective antibacterial activity, Ratiram Gomaji Chaudhary Jay A. Tanna, **Nilesh V. Gandhare**, Alok R. Rai, Harjeet D. Juneja, *Adv. Mater. Lett. (VBRI PRESS)* 2015, 6(11), 690-998. [DOI: 10.5185/amlett.2015.5901](https://doi.org/10.5185/amlett.2015.5901) (Impact Factor: 1.90)
 21. Copper nanoparticles catalyzed an efficient one-pot multicomponents synthesis of chromenes derivatives and its antibacterial activity. Jay Tanna, Ratiram Gomaji Chaudhary, **Nilesh V Gandhare**, Alok R Rai, Sachin Yerpude, Harjeet D Juneja. *Journal of Experimental Nanoscience, (2015)(Taylor & Francis)* 11(11), 884-900, . [DOI: 10.1080/17458080.2016.1177216](https://doi.org/10.1080/17458080.2016.1177216). (Impact Factor: 0.981)
 22. An efficient and one-pot synthesis of 2, 4, 5-trisubstituted imidazole catalyzed by copper nanoparticles. **Nilesh V. Gandhare**, Jay A. Tanna, Ratiram Gomaji Chaudhary, Vaishali P. Meshram, Harjeet D. Juneja. *Journal of the Chinese Advanced Materials Society* (2015), 3, 270-279 (Taylor & Francis) [DOI:10.1080/22243682.2015.1068134](https://doi.org/10.1080/22243682.2015.1068134).
 23. Synthesis, characterization and thermal properties of phthaloyl bis (paramethoxyphenylcarbamide) chelate polymers of divalent transition metals. RG Chaudhary, HD Juneja, **NV Gandhare**, S. Mondal, MP Gharpure, S.S. Bhuyar and J.

- Tanna. *Journal of the Chinese Advanced Materials Society*, 2014; 2 (4); 244-256 (Taylor & Francis). DOI: [10.1080/22243682.2014.942236](https://doi.org/10.1080/22243682.2014.942236)
24. Oxovanadium (IV) complexes with O-O donors ligands: Efficient synthesis, spectral characterization, microbial activity and thermal degradation. Mangesh P. Gharpure, Ratiram Gomaji Chaudhary, **Nilesh Gandhare**, Jay A. Tanna, Inder Mohan Sarin and Harjeet D. Juneja. *Journal of the Chinese Advanced Materials Society*, 2015; 3(2), 89-101 (Taylor & Francis). DOI: [10.1080/22243682.2015.1008571](https://doi.org/10.1080/22243682.2015.1008571)
 25. Synthesis and characterization of some coordination polymers with fumaroyl bis (paramethoxyphenylcarbamide) by using FT-IR, XRD, SEM, and TG techniques. RG Chaudhary, J. Tanna, HD Juneja, **NV Gandhare**, MB Bagade, MP Gharpure and S.S. Bhuyar. *Journal of the Chinese Advanced Materials Society*(2015), 3 (3) 177-187(Taylor & Francis). DOI: [10.1080/22243682.2015.1036459](https://doi.org/10.1080/22243682.2015.1036459)
 26. Evaluation of kinetic parameters from thermal degradation behaviour of chelate polymers of suberoyl bis (p-methoxyphenylcarbamide). RG Chaudhary, HD Juneja, J Tanna, **NV Gandhare** and PJ Puri. *THERMANS-13 Proceeding, BARC, Mumbai 2013; 571-575(ITAS)*.
 27. An Efficient and Effective in-vitro callus production in Bacopa monnieri by using Copper Nanoparticles. **Nilesh V. Gandhare**, Jay A. Tanna, Ratiram Gomaji Chaudhary, Vaishali P. Meshram, Harjeet D. Juneja. *Res J Bio Chem Sci.*, 2016, 7(1) 12-17.
 28. Nickel Oxide Nanoparticles: Synthesis, Characterization and Recyclable Catalyst, Jay A. Tanna, Ratiram G. Chaudhary, **Nilesh V Gandhare**, Alok R. Rai and Harjeet D. Juneja, *International Journals of Scientific and Engineering Research*,2015, 6(12),93-99.
 29. Synthesis,Spectral and thermal aspects of transition metal coordination polymers with bis-hydrazone ligand.Sudhir S. Bhuyar,Smita S. Kharkale,Ratiram Gomaji Chaudhary,**Nilesh V. Gandhare**, Harjeet D. Juneja and L.J. Paliwal.Journal of the Chinese Advanced Materials Society, 2015,,3(4),287-299.
 30. Analysis of Ground Water of Hinganghat region using Physico-Chemical Parameters. **NV Gandhare**, J. Tanna, RG Chaudhary, Yogesh Tawari and MP Gharpure. *Int J Res Biosci Agri Tech*),2015, Special issue 1, 322-326 (Vishwashanti Multipurpose Society)
 31. Assessment of Physico-chemical parameters of well water of Katol city, Nagpur District, Maharashtra (India). **NV Gandhare**, J. Tanna, RG Chaudhary, and MP Gharpure. *Int J Res Biosci Agri Tech*, 2015, 2(3), 84-89 (Vishwashanti Multipurpose Society).
 32. Impacts of Textile Industry Effluents on Surface Water Quality: A Study on Hinganghat In Wardha District of Maharashtra. **Nilesh V. Gandhare**, Pravin S. Jogi, Nitin C. Kongre, Vaishali P. Meshram, Jay A. Tanna, *Int J Res Biosci Agri Tech*,2015 Special issue 1, 193-198 (Vishwashanti Multipurpose Society).

33. Silver nanoparticles induced effect on *in-vitro* callus production in *Bacopa monnieri*, Priya Kalsaitkar, Jay Tanna, Anand Kumbhare, Sushma Akre, Chetan Warade, **Nilesh Gandhare**, *Asian J. Biol. Life Sci.* ,2014),3(3), 167-172.
34. Assessment of Physico-Chemical Parameters of Well Water of Katol City, Nagpur District, Maharashtra (India), **N. V. Gandhare**, R. G. Chaudhary, V. P. Meshram, M. P. Gharpure, J. Tanna, *Journal of Innovation in Sciences* (JIIS) ,2015,2, 52-56.
35. Synthesis, characterization and thermal degradation behavior of some coordination polymers by TG/DTG/DTA techniques. RG Chaudhary, HD Juneja, R. Pagadala, **NV Gandhare** and MP Gharpure. *Journal of Saudi Chemical Society (Elsevier)*, **2015**, **19**, 442–453. DOI: [10.1016/j.jscs.2014.06.002](https://doi.org/10.1016/j.jscs.2014.06.002)
36. Evaluation of kinetic parameters from TG/DTG data of chelate polymer compounds of isophthoyl *bis* (paramethoxyphenylcarbamide). RG Chaudhary, HD Juneja and **NV Gandhare**. *Journal of the Chinese Advanced Materials Society* , 2014, 1 (4):305-316 (*Taylor & Francis*).
37. Thermal decomposition studies of some metal chelate polymers. RG Chaudhary, HD Juneja, VPP Meshram, **NV Gandhare**, MP Gharpure. *THERMANS-12 Proceeding, BARC, Mumbai, 2012, 13-16 (ITAS)*.
38. Studies of transition metal chelate polymeric complexes derived from *bis* (bidentate) ligand. RG Chaudhary, HD Juneja, VP Meshram, **NV Gandhare**. *Journal of Bionano Frontier* ,2012, 5(2),87-89 (*International Society for Science and Technology*).
39. Oxovanadium (IV) complexes of 2-aryl/heteroaryl-3-hydroxy-4Hchromones: synthesis, spectral and thermal degradation studies. MP Gharpure, RG Chaudhary, HD Juneja, VN Ingle and **NV Gandhare** *Journal of the Chinese Advanced Materials Society* 2013,1(4), 257-267 (*Taylor & Francis*).
40. Microwave assisted synthesis of 3-(Tetrahydro-3,4,5-trihydroxy-6-hydroxymethyl-2H-pyran-2-yloxy)-2-aryl/heteroaryl-4H-chromones and their biological importance. MP Gharpure, VN Ingle, HD Juneja, RG Chaudhary and **Nilesh Gandhare**. *International Journal of Innovative Research in Science, Engineering and Technology*,2014, 3(1),8295-8303.
41. Cu-nanoparticle as catalyst for synthesis of ¹H-imidazoles under microwave irradiation. **NV Gandhare**, VP Meshram, RG Chaudhary and HD Juneja. *Journal of Bionano Frontier* (2012); 5(2); 12-14 (*International Society for Science and Technology*).
42. Studies on Phytochemical screening and Antimicrobials Potentials of Leaf of Plant *Acalypha Wilkensisiana* from Chandrapur Forest, Pravin S. Jogi, M. Subhas, Ashok S. Jiwatode, & **Nilesh V. Gandhare**, *Int J Res Biosci Agri Tech*, Feb-2015, Special issue 1, 229-231. (Vishwashanti Multipurpose Society).
43. Synthesis, Characterisation and Morphology Behavior of Mn(II),Co(II),Ni(II) and Cu(II) Chelate Polymer Compounds Based on Chelating Ligand. Ratiram G. Chaudhary, Harjeet D. Juneja, **Nilesh V. Gandhare** and Mangesh P. Gharpure, *Research Journal of Pharmaceutical, Biological and Chemical Sciences*,2013,4(2),1625-1636.

44. Study and Interpretation of Physico-Chemical Characteristic of Lake Water Quality In Nagpur City (India), Purushottam J. Puri, M. K. N. Yenkie, D. G. Battalwar, **Nilesh V. Gandhare** and Dewanand B. Dhanorkar, *Rasayan J. Chem.* ,2010, 3, 800-810.
45. Synthesis and Characterization of Sebacoyl Bis-P-Bromophenyl Urea Polymer, R. S. Ghubde, A. D. Bonde, **N. V. Gandhare**, & H. D. Juneja, *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 2013, 4(4), 52-59.
46. A Preliminary Survey of Mercury in Fresh Water and Fishes, J. Puri, M. K. N. Yenkie, S. P. Sangal, **Nilesh V. Gandhare**, G. B. Sarote & D. B. Dhanorkar, *Rasayan J. Chem.*,2011, 4(1), 147-152.
47. Surface Water (Lakes) Quality Assessment in Nagpur City (India) Based on Water Quality Index (WQI), J. Puri, M. K. N. Yenkie, S. P. Sangal, **Nilesh V. Gandhare**, G. B. Sarote & D. B. Dhanorkar, *Rasayan J. Chem.*,2011, 4(1), 43-48.
48. Impact of Geometric Parameters, Charge and Lipophilicity on Bioactivity of Armed Quinoxaline, Benzothiazole and Benzothiazine: POM Analyses of Antibacterial and Antifungal Activity, Taibi Ben Hadda, Fatim Z. Khardli, Mostafa Mimouni, Maria Daoudi, Abdelali Kerbal, Hector Salgado-Zamora, **Nilesh Gandhare** & Ali Parvez, Phosphorus, Sulphur, Silicon and Related Elements (Taylor and Francis) 2014,189(6),753-761.
49. Synthesis of 1H- Imidazoles catalysed by Cu- nanoparticles and its Physicochemical Properties. Ramakanth Pagadala, **Nilesh. V. Gandhare**, Uppalaish Kusampally, Venkateshwarlu Jetti, Jyotsna S. Meshram & H. D. Juneja, *J. Heterocyclic Chem.* 2014, 51, 116-122.; [DOI: 10.1002/jhet.1551](https://doi.org/10.1002/jhet.1551).
50. Study Regarding Lake Water Pollution with Heavy Metals in Nagpur City (India).P.J.Puri, M.K.N.Yenkie, S.P.Sangal, N.V.Gandhare and G.B.Sarote, International Journal of Chemical, Environmental and Pharmaceutical Research ,2011, 2(1), 34-39.

PARTICIPATION AND PAPER PRESENTATION IN CONFERENCES

INTERNATIONAL:

Dec-2008 Presented paper in *International Symposium on Material Chemistry (ISMC)* on entitled “Synthesis, characterization and thermal studies of Cd(II) and Hg(II) chelate polymers” held at **BARC Mumbai**

Feb-2011 Presented paper in *International Conference on Chemistry For Mankind Innovative Ideas In Life Sciences (ICCM)* on entitled “Synthesis, spectroscopic, magnetic, thermal and kinetic studies of coordination polymers of Mn(II), Co(II), Ni(II), Cu(II) and Zn(II)” at Department of Chemistry Rashtrasant Tukadoji Maharaj Nagpur University **Nagpur**

Feb-2012 Presented paper in *International Conference and Workshop on Thermal Analysis: THERMANS* on entitled “Thermal decomposition studies of some metal chelate polymers” at **ITAS, BARC Mumbai**

Nov-2012 Presented paper in **International Conference: IInd World Congress for Man and Nature** on entitled “Studies of transition metal chelate polymeric complexes derived from *bis* (bidentate) ligand” organized by Sevadal Mahila Mahavidyalaya, **Nagpur**

Aug-2013 Presented paper in “*International Conference on Multifunctional Materials and Environmental energy*” (*ICMMEE*) on entitled “Morphology, thermal degradation and kinetic parameter studies of some divalent transition chelate polymer compounds” organized by Sharda University, **Greater Noida Delhi**.

Feb.-2021 Participated in International webinar on Innovations in Science and Technology organized by Department of Chemistry, Smt. Narsamma Arts, Commerce and Science College, Kiran Nagar, Amravati and Association of Chemistry Teachers(ACT), Mumbai.

March-2021 Participated in International webinar on Sustainable Chemistry, IWSC-2021 organized by Association of Chemistry Teachers (ACT), Mumbai.

August-2021 Presented paper in International Conference on Innovative trends in National and Applied Sciences organized by Mahatma Gandhi College of Science, Gadchandur (India).

September-2021 Participated in the two-day International Conference on Environmental Issues-Global Warming: Reasons and Remedies jointly organized by Prerna College of Commerce, Nagpur and Nabira Mahavidyalaya Katol, Nagpur.

NATIONAL:

- Aug-2007** Presented paper in *5th National Symposium and Conference on Solid State Chemistry and Allied Areas (ISCAS)* on topic “Synthesis and characterization of thermally stable chelate polymer of Cd(II) and Hg(II) with dibasic acid organized by Department of Chemistry **RTMNU Nagpur**.
- Nov-2009** Presented paper *6th National Symposium and Conference on Solid State Chemistry and Allied Areas (ISCAS)* on topic Synthetic, spectral and structural studies of chelate polymers of sebacoyl *bis* (paramethoxyphenylcarbamide) with Cd(II) and Hg(II) at **VIT, Vellore**.
- Dec-2009** Presented paper in *National Conference on Advanced Materials and Technology (NCAMT)* on topic Synthesis of some coordination polymers of terphthaoyl *bis* (paramethoxyphenylcarbamide) organized by **Shivaji Science college Nagpur**.
- Jan-2010** Presented paper in *National conference on Nanomaterials and Nanotechnology (NCNN)* on topic Synthesis and characterization of chelating agent azelaoyl *bis* (paramethoxyphenylcarbamide) and study of its interaction with Cd and Hg ions at **VNIT Nagpur**.
- Jan-2011** Presented paper *National Conference on Green Chemistry for Environmental & Human Health (NCGCEH)* on topic “Synthesis, physiochemical studies and biological studies of 4-methoxyphenylcarbamide derivative” at **Kamala Nehru College, Nagpur**.
- Nov-2011** Presented paper in *7th Biennial National Symposium and Conference on Solid State Chemistry and Allied Areas (ISCAS)* on topic “Conductivities studies of some coordination polymers of transition metal ions” at **Jamia Millia Islamia, New Delhi**.
- Dec-2011** Presented paper in *National Conference on Emerging Trends in Nanoscience and Technology* on topic “X-Ray Diffraction (XRD) and Scanning Electron Microscopy studies of some thermally stable chelate compounds” organized by **Rajiv Gandhi College of Engineering & Research, Nagpur**.
- March-2018** Participated in UGC Sponsored National Conference on “**INDIAN HERITAGE IN CHEMISTRY (IHC 2018)**” organized by PG and Research Department of Chemistry, Hislop College, Nagpur and IGNOU Regional center, Nagpur.
- March -2019** Participated in one day state level workshop on “**REVISED ACCREDITATION FRAMEWORK OF NAAC**” organized by Internal Quality Assurance Cell (IQAC), Seth Kesarimal Porwal College of Arts and Science and Commerce, Kamptee, Nagpur.
- August – 2019** Participated in two day interdisciplinary workshop on “**Hands- on Training on laboratory Equipments**” in association with Equiptronics,

Mumbai 2nd and 3rd August 2019 organized by Dharampeth M.P. Deo Memorial Science College, Nagpur.

December 2019 – Participated in 11th National Conference on “SOLID STATE CHEMISTRY AND ALLIED AREAS” organized by Seth Kesarimal Porwal College of Arts, Science and Commerce, Kamptee in association with Indian Association of solid state chemistry and allied scientists(ISCAS),Jammu.

Feb.-2020 Participated in one day state level workshop on “Fundamentals of intellectual property rights and plagiarism” jointly organized by Quality Assessment Cell (IQAC) and Central Library, Nabira Mahavidyalaya ,Katol.

July-2020 Participated in one day National online conference on “Covid-19 Optimistic Perspective: Pandemic Transforming Challenges into Opportunity” organized by Department of Chemistry, Janata Mahavidyalaya, Chandrapur.

July-2020 National webinar on pandemic perceptiveness in the post COVID-19 world organized by Indian Society of Analytical Scientists (ISAS), Nagpur Chapter.

July-2020 Participated in one day International webinar on “Advances in Chemical Science and Engineering” organized by Department of Chemistry, Govt. Bilasa Girls P.G. Autonomous College Bilaspur, Chhattisgarh.

October-2020 Participated in ACT National Webinar on Instrumental Methods of Analysis (NWIMA-2020) organized by Association of Chemistry Teachers (ACT), Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur and Kalasalingam Academy of Research and Education, Krishnakoli, India.

Feb.-2021 Participated in National Webinar on Functional Materials on the Eve of Birth Anniversary of Prof. R.B. Kharat organized by Society for Promotion of Material Science, Nagpur and Jagat Arts,Comm. and I.H.P. Science College, Goregaon, Dist Gondia

July-2021 Participated in National Level Webinar on “Writing and Evaluation of Scientific Research Articles” organized by Research Promotion Cell, Seth Kesarimal Porwal College of Arts, Science and Commerce, Kamptee and Department of Chemistry, Taywade College, Mahadula-Koradi.

July-2021 Participated in the National Webinar on “Recent Advances in Chemistry” organized by the Department of Chemistry and IQAC, Govt. G.N.A PG College, Bhatapara(C.G)

Feb.2022 Participated in one day National e-Conference on “Writing Research Paper: Learning the steps and Knowing Plagiarism” organized by Department of

**Home Science and Internal Quality Assurance Cell(Under MOU of COTI)
Yeshwant Mahavdyalaya,Wardha.**

**Feb.-2022 Participated in National Intellectual Property Awareness Mission organized
by Government of India, Intellectual property office, India.**

**November-2021 Participated in National Seminar on NHC organized by PGT
Department of Chemistry, RTM Nagpur University
Campus,Nagpur(MS),India.**

REFRESHERS/ ORIENTATIONS/INDUCTION/ SHORT TERM COURSE

- ❖ **2013:** Actively participated in UGC Sponsored *Refresher course* in *CHEMISTRY* from 21-11-2013 to 11-12- 2013 and obtained Grade 'A' organized by **Academic Staff College**, RTM Nagpur University.
- ❖ **2015:** Actively participated in UGC Sponsored 91th *Orientation Programme* from 24-06-2015 to 21-07- 2015 and obtained Grade 'A' organized by **Academic Staff College**, RTM Nagpur University.

- ❖ **2020:** successfully completed Two Weeks Faculty Development Programme on "ADVANCED CONCEPTS FOR DEVELOPING MOOCS" from July 02 - July 17, 2020. Teaching learning centre Ramanujan College, University of Delhi sponsored by Ministry of Human Resource Development.
- ❖ **2021:** Actively participated in UGC Sponsored *Refresher course* in **TEACHER EDUCATORS** from 29-11-2021 to 11-12-2021 and obtained Grade 'A' organized by UGC-Human Resource Development Centre, Sant Gadge Baba Amravati University, Amravati (M.S.)

(Any Other responsible work/ Contributions/activity experience)

- ❖ **Number of M.Sc. Research Project Guided :24**
- ❖ **As a Reviewer in Rainbow Journal.**
- ❖ **Delivered guest lecture in many reputed college.**
- ❖ **Judge in seminar competition in various colleges.**
- ❖ **Presiding officer**
- ❖ **Member of Jury Panel for Oral and poster presentation evaluation at International conferences.**

CONFERENCES/WORKSHOP ORGANIZED

- 1. International E-Conference on "Recent Advances in Chemical, Physical and Biological Sciences" on dated 29th -30th June 2021.**
- 2. One day" National Level Webinar on Recent Research Trends in Chemistry" on dated 26th June 2020.**
- 3. One Day National Level "Workshop on Resume Writing" on dated 21st June 2020.**
- 4. Ten days National Level Lecture Series In Memory of Late Shri. Bhikulaji Nabira on dated 21st January to 30th January 2022.**
- 5. One Day "Workshop on Chromatography" on dated 13th March 2022.**

6. One Day “Workshop on Basics of Chemical Drawing Tools and Their Applications” on dated 23rd March 2022.
7. One Day “Workshop on Research Project Writing” on dated 6th May 2022.

Paper Valuation/Paper Setter/Examiner:

- ❖ Various time appointed as paper valuer at spot valuation center RTM Nagpur University, for valuation of B.Sc.-I/II/III papers.
- ❖ Various time appointed as paper setter at Gondwana University, Gadchiroli as well as J.B.Science college, Wardha.
- ❖ Conducted B.Sc./M.Sc Practical Examinations at several colleges where acted as Internal and External.

Life Membership in Society/Organization

1. RTM Nagpur University Chemistry Teacher Association (RTMNUCTA) (LM 131)