



NAME : Dr.Laxman Vithoba Gavali

Contact: Professor and Head, Department of Chemistry, Karmaveer Bhaurao Patil College Vashi,  
Navi Mumbai-400703

Phone :022-27661210

Fax: 022-2789 1210

Email:[laxmanvg70@gmail.com](mailto:laxmanvg70@gmail.com), gavalilv@kbpcollegecashi.edu.in

Educational qualification:

B.Sc.(Chemistry) : 1991 1<sup>st</sup> Div Shivaji University Kolhapur

M.Sc.(Organic Chemistry): 1993 1<sup>st</sup> Div Shivaji University Kolhapur

Ph.D.(Chemistry) : 2003 - Shivaji University Kolhapur

Title of Thesis : Synthesis and characterization of transition metal complexes  
of Schiff Base ”

Place of Research work : Chemistry Department, Shivaji University, Kolhapur  
DESIGNATION : (Professor in Chemistry )

Feb 1994 to April 2003- Lecturer in organic Chemistry, VWASC College Phunde, Tal Uran ,  
Raigad

May 2003to June 2004- Lecturer in Organic Chemistry, SSGM College Kopargaon, Dist.  
A’Nagar

June 2004 to Jan 2006- Lecturer in Organic Chemistry

Jan 2006 to Nov 2012 - Assistant Professor in Organic Chemistry, Karmaveer Bhaurao Patil  
College Vashi ,Navi Mumbai 400703

Nov 2012 to Nov 2017 - Assistant Professor (Sr.Scale) in Organic Chemistry, KBP College  
Vashi, Navi Mumbai-400703

Nov 2017 to Aug 2021 - Associate Professor (Sr.Scale) in Organic Chemistry ,KBP College  
Vashi, Navi Mumbai-400703

From Aug.2021 - Professor in Organic Chemistry, KBP College Vashi Navi Mumbai

EXPERIENCE(Yrs.) : 30 (UG ) 20(PG)

SPECIALIZATION : Organic Chemistry

PUBLICATIONS :

- Books Publications- 06 - Conference Proceedings

- Research Publications in Journals- 45 (Peer reviewed and UGC care listed)
- Papers Published in conference proceedings- 07-(National and international Conference)

#### PAPERS PRESENTED:

- Research Papers presented in international conferences-16
- Research Papers presented in national conferences-17

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED: 47

#### ACTIVITIES ORGANIZED:

- National and international Conference Organised

#### FDP/TRAINING COURSES COMPLETED:

- one OC, four RC , One Soft Skill, Five FDP

#### RESEARCH PROJECTS:

- Three completed and one ongoing

#### SUPERVISION OF RESEARCH STUDENTS :Ph.D.

1.Dr.Prajakta Sandeep More , Status-Degree awarded (2020)

Present Position: Assistant Professor, CHM College, Ulhasnagar

2.Mr.Dayandev.Kalgude, Status : Working

3 Mr. Bhausahab Hande Status : Working

#### MEMBERSHIPS/AFFILIATIONS:

- Life Member Indian Science congress association.
- Chairman and Program officer: National Service Scheme Committee
- Course Coordinator: M Sc organic Chemistry
- Committee Member: Student welfare committee
- Coordinator: Ambient Air Quality Monitoring Project NAMP/MPCB
- Member: NAAC Criterion III-NSS Program officer
- In charge: Departmental Study Visit
- Editor: Conference proceedings by Department, Rayat Vidyan Parishad 2018
- Member: Karmaveer Jayanti Celebration
- Worked as Chairman for Ek Bharat Sharestha Bharat program
- Member: Discipline Committee Member
- Research Guide: 3 Ph.D students registered ,4 PG student research project
- Participated in University Avishkar Research Festival

#### AWARDS AND ACHIEVEMENTS:

➤ Patent: Issue No.30/2020 Page No 27733 Dated 24/07/2020, Title of the Invention : Effective Herbal Formation to control ticks on animals using Custard Apple

Date of filling : 05/02/2020 Publication Date : 24/07/2020

International Classification: A23L21/00

Award :

- BR. P.G.Patil Memorial Best Teacher award with Rs.5000/- for the Year 2019-20 award by KBP College Vashi
- Best Committee work award for the year 2018-19 and 2019-20
- Best research paper presentation award at national level seminar conference jointly organized by SSGM College Kopergaon and BCUD ,University of Pune on 11<sup>th</sup> to 13<sup>th</sup> Feb. 2012
- Best research Paper presentation award at National Conference organized by KBP College Vashi, Navi Mumbai sponsored by UGC ,New Delhi on 4<sup>th</sup> and 5<sup>th</sup> Oct.2013
- Area Coordinator for Navi Mumbai Area NSS cell University of Mumbai

ANY OTHER DETAILS:

- Chairman BOS IN CHEMISTRY : Karmaveer Bhaurao Patil College Vashi, Navi Mumbai , Autonomous college,
- Member: BOS IN CHEMISTRY : KBP College, Pandharpur, Dist. Solapur, Autonomous college,
- Worked as Subject Chairman for TYBSc applied Component ,University of Mumbai
- Paper Setter: TYBSC applied Component (Petrochemicals)
- Worked as Senior Supervisor and Junior Supervisor for University Examinations
- Worked as Judge for University level Avishkar Research project

SOCIAL ACTIVITY

- Two Blood Donation Camps organized every year with NMMC (Govt.) Blood Bank, since 2007 about 200 to 250 blood units collected and handover to NMMC Blood bank.
- Contribution to flood relief fund and food materials collected and distributed in flood affected area Sangli, Kolhapur, Chiplun , Mahad, Poladpur
- One student adopted from Ashram school run by Rayat Shikshan Sanstha, Satara (Rs.5000/- )
- AID's awareness program organized. RRC club formed
- Cleanliness activity in campus and sea shore at Vashi, and Karave Gaon, Navi Mumbai.
- Waste to Compost awareness in nearby society.
- Awareness for segregation of wet and dry waste.
- Anti plastic awareness, making paper bag and distribution in market
- Yoga Day Celebration in College
- Anti Drugs Day, Anti tobacco, Anti Corruption awareness.
- Swacchata Pakhwada-a) Cleanliness Rally b) Adopted area cleaning c) Library & Classroom cleaning d) Laboratory cleaning e) College Ground Cleaning f) College Campus Cleaning g) Swacchata Pledge.
- Voters awareness, Tree Plantation at Vashi Gaon and adopted area..
- Fit India Program, Police Mitra help to control traffic and rush in Ganesh Festival's
- Road safety awareness program for College Students, Anti Corruption awareness.
- Pulse Polio campaign at Vashi, Sanpada, Koparkhirane..
- Awareness programme in adopted area.

FLOOD RELIEF FUND: Actively participated in Flood relief fund contribution, collection and distribution to needy families in flood affected area.

### Research Publications details:

1. P.P.Hankare , **L.V.Gavali** & S.S.Chavan , X-ray diffraction studies of azo schiff base. *Indian Journal of Physics*,76A(6),(2002)587-589
2. P.P.Hankare , **L.V.Gavali** ,V M Bhuse,K M Garadkar, S D Delekar & P S Battase Synthesis & X-ray diffraction studies of 4-[2'-hydroxy salicylidene 5' (2''- thiazolylazo) methoxy benzene.*Indian Journal of Pure and Applied Physics* 41,( 2003) 817-820.
3. P P Hankare, S D Delekar, V M , Bhuse, K.M ,Garadkar and S D Sabane & **L.V.Gavali**,Synthesis and characterization of chemically deposited lead selenide thin films,*Material Chemistry and Physics*, 82(2003)505-508
4. P.P. Hankare **L.V.Gavali**, V.M. Bhuse ,S.D.Delekar and R.S.Rokade Synthesis and characterization of tridentate Schiff Base derived from 5' (2''- thiazolylazo) salicylaldehyde and p-methoxy aniline and their Mn(II),Zn(II), and Hg(II)complexes,*Indian Journal of Chemistry*. 43A (2004) 2578-2581
5. P.P.Hankare , A.H.Jagtap , **L.V.Gavali** , P.S. Battase and S.R. Naravane, X-ray diffraction studies of 8-(-2-azothiazolyl-) -7-ydroxy 4-methyl Coumarin,*Indian Journal of Physics* ,78A (3)(2004) 381-384.
6. **Laxman.V.Gavali** , Rajkumar S. Rokade, Mohan R. Kadam.Synthesis and characterization of Copper (II),Nickel(II)and Zinc (II) complexes of Schiff Base derived from 5' (2''- thiazolylazo) salicylaldehyde and p-nitroaniline,*Trade Science Inc. Chemistry – An Indian Journal*, Vol 2,5(6) (2005) 1-5.
7. A.V.Kokate, M.R.Asabe, S.D..Delekar, **L.V.Gavali** I.S.Mulla, P.P.Hankare, B.K.Chougule. Photo electrochemical properties of electrochemically deposited CdIn<sub>2</sub>S<sub>4</sub> thin films. *J. of Physics & Chemistry of Solids*. 67 (11) (2006) 2331-2336, Elsevier <https://doi.org/10.1016/j.jpics.2006.05.022>
8. **L.V.Gavali** and P.P.Hankare.Synthesis and characterization of the complexes of some transition metals with 4-[2'– hydroxy salicylidene –5' (2''-thizolylazo)] chlorobenzene *Journal of Physical Sciences*, 11 (2007) 147-155.  
<http://inet.vidyasagar.ac.in:8080/jspui/handle/123456789/741>
9. **L.V.Gavali**, A.S.Burangale, and P.P.Hankare, X-rays diffraction studies of Schiff Base 4-[2' –hydroxy salicylidene 5' (2''- thiazolylazo)]nitrobenzene, *J. Indian Chem. Soc.*, Vol.85, Feb (2008)217-219. ISSN 0019-4522.
- 10.P.P.Hankare, V.T.Vader, U.B.Sankpal, **L.V.Gavali**, R.Sasikala and I.S.Mulla, Effect of sintering temperature and thermoelectric power studies of system MgFe<sub>2</sub>Cr<sub>x</sub>O<sub>4</sub>. *Solid state science*, Vol.11,Issue 12, (2009) pages 2075-2079, Elsevier doi:10.1016/j.solidstatescience.2009.09.005
11. V S Shivankar Y A Gaikwad,H U Mulla,R J. Patil and **L.V.Gavali** Synthesis and characterization and microbial activity of Chiral Mixed Ligand Transition Metal complexes *IOSR Journal of applied Chemistry (IOSRJAC)*,Vol.2 Issue 1 (Sep- Oct-2012) pp 26-33.
12. Vittal s. Shivankar, Arvind S. Burungale, Mohan M. Rajmane and **Laxman.V.Gavali**. Synthesis, characterization and catalytic activity of mixed ligand transition metal complexes, *Scholars Research Library, Archives of Applied Science Research*, , 4 (5) 2012, 2289-2298.
13. V S Shivankar, **L.V.Gavali** ,S P Yadav and N V Thakkar, Mixed Ligand Co(II) Complexes Use as Catalysts in the Hydrolysis of Esters'*IOSR Journal of Applied Chemistry (IOSRJAC)e- journal* 3( 6 ) (2013)31-39.

14. V S Shivankar and **L.V.Gavali**, Chiral Mixed Ligand Complexes As Catalysts In The Hydrolysis Of Esters, *Chemical Science Transaction*, e-Journal of Chemistry 2(4), (2013)1204-1213 World wide publication (P)India DOI:10.7598/cst2013.610
15. Bapu Thorat, Varsha Ahuja, Mustapha Manewale, Ramesh Yemger, and **Laxman V.Gavali**, Anti-TB study of some new Schiff base derivatives of 6-aminocoumarin, *World Journal of Pharmaceutical Research* 4(9) (2015) 2250-2259.
16. Pallavi Deshmukh, Amit Gavade, Vitthhal Shivankar and **Laxman V.Gavali**, Heavy metal concentration in ceiling fan dust collected from houses, *Journal of Chemical Biological and physical sciences*, 6(3) (2016)639-648.
17. Amit Gawade, Pallavi Deshmukh, Vitthhal Shivankar and **Laxman V.Gavali**, .Analysis of road side dust for heavy metal pollutants *International Journal of Engineering technology, management and applied sciences*.4, (7)(2016) 80 - 85
18. **Laxman V.Gavali** and Mahadeo R Jadhav, Synthesis and Studies of mixed ligand Ni(II) and Cu(II) metal complexes with 2-aminophenol and Schiff base of terephthalaldehyde, *International Journal of Engineering Technology , Management and applied Sciences* 4,( 11) 2016.
19. **Laxman V.Gavali**, Vitthhal S shivankar, Yashwant Gaikwad, amit Surve, Tejas Patil, Vaibhav Mali and Gurumeet Wadhava,, Phytochemical Analysis of the Menthol Extract from leaves of *Hemidesmus Indicus*. *European Journal of Biomedical and Pharmaceutical Science*, *ejbps*, , 3,(12)( 2016)539-543 .
20. G.C.Wadhava, V.S Shivankar, S S Patil, Y A Gaikwad, D.A.Sawant, V, Mane and **L.V.Gavali**, Conversion of Ferrous sulphate to Ferric chloride using chlorine gas, *European Journal of Biomedical and Pharmaceutical Sciences*, 3, (11)(2016)288-290:
21. G.C.Wadhava, V.S.Shivankar, Y.A.Gaikwad, M.R.Pingale and **L.V.Gavali** Conversion of copper sulphate to copper chloride using chlorine gas, *World Journal of Pharmaceutical Research* ,5(12)(2016)550-555
22. GCWadhava, VSShivankar, YAGaikwad, DAS, SSHande, CHGill and **L.V.Gavali**, One-pot synthesis of benzimidazoles the presence of lemon juice as a new and efficient catalyst *European Journal of Pharmaceutical and Medical Research*.3(12), (2016)556-558.
23. G C Wadhawa, V S Shivankar, D D Patil, YAGaikwad, **L V Gavali** and CH Gill, Review on synthesis of benzimidazole using green protocols. *World Journal of Pharmacy and Pharmaceutical Sciences* WJPPS VOL.5 (9),(2016),624-656
24. G C Wadhawa , V S Shivankar, Y A Gaikwad, A.D.Surve , VM, KG and **L V Gavali** The Effect of Enzyme on Rate and Yield of Curd formation from Homogenized cow milk *World Journal of Pharmacy and Pharmaceutical Sciences*, 5, 11, (2016) 25, 923-927.
25. **L V Gavali**, V S Shivankar, Y A Gaikwad, A Surve, TP, VM and G.C Wadhva, Phytochemical analysis of the methanol extract from leaves of *Paullinia Pinnata*, *World Journal of Pharmacy and Pharmaceutical Science* 5(12), (2016) 1673-1683.
26. G C Wadhawa, V S Shivankar, S S Patil, C H Gill and **L.V.Gavali**, Synthesis of 2-substituted benzimidazoles and 1,5- disubstituted benzodiazepines using alum, *Rasyan Journal of chemistry*, 10(1) (2017) 13-35
27. G C Wadhawa, V S Shivankar, Y A Gaikwad, C H Gill Yogita Mane, and **Laxman Gavali** Antibacterial and antioxidant ,anti-inflammatory study of seeds and stem *Delonix regia* *Shodhkan* , *Special issue III Jan 2017*, Pp 281-289
28. G C Wadhawa, V S Shivankar, S S Patil, Y A Gaikwad, Bharat Ingale, C H Gill and **Laxman Gavali**, Antibacterial an antioxidant study of Zingber *Officinale* *Shodhkan* , *Special issue III Jan 2017*, Pp 298-305
29. G C Wadhawa, V S Shivankar, Y A Gaikwad, C H Gill Aishwarya Satare, Krutika Gaikwad, Vandana Malusare and **Laxman V Gavali**, One pot synthesis of benzimidazoles in the presence of nickel sulphate as a new and efficient catalyst *Proceeding National Seminar on Advanced trends in Green Chemistry, 2017* , PP 81-85
30. G C Wadhawa, S Gite, D. Patel, C.H.Gill, **L V Gavali**, Facile Synthesis of 2- substituted

- Benzimidazoles using waste Aluminium foil, *International Journal of Chemical and Physical Sciences*, vol-7, special issue RICES Jan 2018, PP 182-184
31. Y A Gaikwad, V S Shivankar, G C Wadhawa, S S Patil, SKS, NTS and **Laxman V Gavali**, Antioxidant effect of the stem and leaves of Solanum Melongena Linn, *World journal of Pharmacy and Pharmaceutical Sciences*, 5(12) (2018)1767-1772
  32. **L.V.Gavali**, VS Shivankar and P S More, Extractive Separation and Recovery of Indium (III) from Iodide medium using 4-Methyl-N-n-octylaniline as Novel Extractant. *Journal of Chemistry and chemical Sciences*, 8(2) (2018)326-334
  33. G C Wadhawa, Y A Gaikwad, A Singh, N Sarwade, C H Gill and **L V Gavali**, Plant assisted zinc oxide nanoparticles for synthesis of benzimidazole derivative, *Europien Journal of Biomedical and Pharmaceutical Sciences*, 5(4) (2018)637-640
  34. G C Wadhawa, V S Shivankar, Y A Gaikwad, C H Gill and **L V Gavali**, New and Efficient green catalyst one -pot synthesis of Benzimidazole and derivatives, *World Journal of Pharmaceutical Research* 7(7)1013-1019(2018)
  35. G C Wadhawa, V S Shivankar, Y A Gaikwad, N S Dhumale, C H Gill and **L V Gavali** Review on Antibacterial Activity of Benzimidazole containing compounds, *World Journal of Pharmaceutical Research* 7(7)483-495(2018), www.wjpr.net doi:10.200959/wjpr20187-11578
  36. G C Wadhawa, S S Patil, Sayli Berge, C H Gill and **L V Gavali**, Synthesis of Benzimidazoles derivatives using green route, *European Journsl of Biomedical and Pharmaceutical Sciences* 5(4) (2018)327-328
  37. C.H Gill, G. C Wadhawa, **L.V. Gavali**, V. S Shivankar and K. Pawar, Synthesis of Benzimidazole using waste Magnesium oxide, *Research Journal of Pharmacology and Pharmacodynamics* 10(13) (2018)103-104
  38. **L.V.Gavali**, V S Shivankar and P S More, 4-Methyl –N-n-octylaniline as a New liquid anion exchanger for the liquid –liquid extraction of gallium(III) application to electronic waste LED *International Journal of Chemical and Physical Sciences*, 7(2) (2018)52, -61
  39. **Laxman Gavali** . Ajay Dudhade, Aishwarya Kunjir, Vikas Thakur, Gurumeet C Wadhawa One-Pot Four-Component Dakin-West Synthesis of  $\beta$ -Acetamido Ketones Catalyzed by Haldighati soil, Souvenir of National Conference 25 th February 2019 (NRIC 2019) PP 83-88 Department of Chemistry, KBP College, Vashi, Navi Mumbai 400 703, M.S., India (ISBN -989-32-145-7188)
  40. **L. V Gavali**, D. D. Kadam and V. S Shivankar, Study of Physiochemical Properties and heavy Metals in Edible Oil consumed in Mumbai, *Tathapi*, 19,( 4)(2020)590-595
  41. **L.V Gavali**, N. D. Kamble, D. B. Patil and V. S Shivankar, Ambient Air quality Monitoring by analysis of SO<sub>2</sub>, Nox, RSPM, SPM in Navi Mumbai City, *Studies in Indian Place Science*, 40,(70) (2020)4338
  42. **L.V. Gavali**, D. B. Patil, G.C.Wadhawa and S. S. Nayak, Study On Air quality Status In Navi Mumbai Before And During COVID-19 Lockdown Period, *GIS SCIENCE JOURNAL*, 8(4) (2021)1213-1226
  43. **L. V. Gavali**, V. S. Shivankar and P. S. More, 4-Methyl-n-n-octylaniline as an emerging extractant for the liquid-liquid extraction of toxic metal like lead(ii) to reduce its health hazards, *Rasayan J. Chem.*, 14(1), (2021) 433-438.
  44. S.S Nayak, K. Pathade, V. S Shivankar, D. D Patil, **L.V. Gavali**, G.C Wadhawa, In Vitro anti-diabetic activity of the different extract of medicinal plant Fimbristylis tetragon, *International Journal of Botany studies*, Vol 6,(1)(2021) 370-374
  45. Laxman R. Rathod, N. B. Pawar, Rajmane D. V., Laxman Gavali, Gurumeet C Wadhawa Study Of Algal Biodiversity In Panvel Region Of Konkan, Maharashtra, *International Journal of Aquatic Science*, Vol 12, Issue 03, 2021
  46. Prajakta S. More, Umesh B. Barache, Shashikant H. Gaikwad, **Laxman V. Gavali** Extraction of Th(IV) and U(VI) with 4-methyl-N–n-octylaniline as an extracting agent, *J of Radioanalytical and Nuclear Chemistry* <https://doi.org/10.1007/s10967-022-08471-2>