Dr. Vijay B. Tadke, (Ph.D.)

Present position

- **Professor**

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Work Experience

- **Teaching: 31 Years and 04 Months.**
- **Research/Industrial: 10 years**

Personal Profile

I have joined dept. of Chemistry Fergusson College on 17th July 1991.
In 1994 I have join research work in SPPU chem. Dept. for PhD degree under the guidance of Prof. A. K. Nikumbh. PhD. degree was awarded to me in June 2001.
During this period, I have taught to F.Y./S.Y./T.Y. classes & PG part I & Analytical part II classes.
In 2003 I was promoted as Reader in Inorganic chemistry.
In 2006 I was appointed as college examination officer of fergusson college.
In 2008 I have got a chance to teach one semester at Hanyang University, Seoul, South Korea as a visiting faculty for UG & PG classes.
Meanwhile we (Chem. Dept.) have developed a semi micro analysis, practical skills in which we have used minimum quantity of chemicals for regular practical of UG & PG classes. These semi micro analysis workshop we have arranged in many colleges in Maharashtra & out of Maharashtra as a research person.
In 2016 fergusson college becomes Autonomous & I got a chance to work as a Controller of Examination for Autonomous system. In 2020 I have been promoted as a professor in Inorganic chemistry under CAS program conducted by SPPU. In June 2020 I took a charge of Chemistry Department as Head of Department.

Course(s) Taught (Only Titles)

1. Inorganic Chemistry
2. Analytical Chemistry
3. Industrial Chemistry

Field of Specialization/Areas of Interests

- Inorganic Chemistry
- Material Science
- Bioinorganic Chemistry

Education

- **Ph.D. – (Chemistry):** from 1995 to 2000
  Title of the Thesis: Study of some mixed metal dicarboxylates
  Name of University / Institution: Department of Chemistry SPPU.
  Year of Award : 2001

- **Master of Science/Arts- (subject name)**: M.Sc. Inorganic Chemistry, 1989 – 1991 year
  University/College : **Department of Chemistry SPPU**

- **Bachelor of Science- (subject name):** B.Sc. Chemistry, 1989 year
  College, University, Place : Nowrosjee Wadia College, Pune (SPPU)

Fellowship/Awards/ Certifications/Achievements/Recognitions

1. Worked as a visiting faculty for one semester at Hanyang University, Seoul, South Korea in 2007
2. Best Teacher Award by PMC in 2008.

Member of College Committees/ Professional Bodies and Others

College Level	Professional Bodies	Others
• Member of core committee Examination Fergusson College, Pune.	Life member of Indian Council of Chemist	Chairman BoS Chemistry, Fergusson College, Pune.

Employment History

1) **Organization :** DES, Fergusson College, Pune.
   Role : Lecturer
   Duration : From July 1991 till date.

Responsibilities	• Worked as Examination In-charge in 2006. • Controller of Examination from 2016 to 2019.

Research Publications in National and International Journals

1. Nita Dhavale, C. S. Patil, **Vijay Tadke** and Shridhar Vhankate. (2019). Synthesis, characterization and antibacterial activity of mixed Cobalt- Transition Metals compounds. Current Pharma Research. 10(1), 3594-3604. ISSN: 2230-7842.
2. C. S. Patil, N. S. Dhavale and **V. B. Tadke.** (2019). Synthesis, Characterization and biological activity study of Co-Ni tartrate Complexes. Research Journey. Special Issue 166, 144-148. E-ISSN: 2348-7143.
3. N. S. Dhavale, C. S. Patil, S. M. Vhankate, **V. B. Tadke,** R. P. Pawar and S. S. Pawar. (2018). Synthesis, Characterization and Antimicrobial Activity of Mn-Fe Tartarate composites. International Journal of Scientific Research in Science, Engineering and Technology. 4(3), 61-68. Print ISSN: 2395-1990, Online ISSN: 2394-4099.
4. C. S. Patil, N. S. Dhavale and **V. B. Tadke.** (2017). Investigation of antioxidant and antimicrobial activity of some mixed transition metal complexes. Journal of Medicinal Chemistry and Drug Discovery. 3(2), 45- 53. ISSN: 2347-9027.
5. S. S. Pawar, N. S. Dhavale, C. S. Patil, S. M. Vhankate, R. P. Pawar and **V. B. Tadke.** (2017). Synthesis, Characterization and Evaluation of Biological Activity of Mn-Fe tartrate Complexes. International Journal of Advance Research in Science and Engineering. 6(9), 1540-1547. ISSN (O): 2319-8354, ISSN(P): 2319-8346.
6. C. S. Patil, N. S. Dhavale, **V. B. Tadke** and R. P. Pawar. (2016). Synthesis, Characterization of Novel Mixed Metal Tartrate Complexes and Study of their in vitro Antimicrobial Activity. International Journal of Pharmaceutical Sciences and Research. 7(4), 1524-1534. E-ISSN: 0975-8232, P-ISSN: 2320-5148.
7. C. S. Patil, N. S. Dhavale, S. S. Pawar and **V. B. Tadke.** (2016). In Vitro, antimicrobial activity studies of dicarboxylate ligand and their metal complexes. Journal of Medicinal Chemistry and Drug Discovery. 1(2), 579- 583. ISSN: 2347-9027.
8. N. S. Dhavale, S. S. Pawar, **V. B. Tadke,** R. P. Pawar and C. S. Patil. (2015). Extraction and quantitative determination of Inulin content in some baker products by HPLC. Journal of Medicinal Chemistry and Drug Discovery. Special Issue, 506-514. ISSN: 2347-9027.

9. S. M. Vhankate, S. S. Pawar, S. A. Dhanmane, N. S. Dhavale, Kiran Fulzele, C. S. Patil, R. P. Pawar and **V. B. Tadke.** (2013). Oxalate Ligand based Synthesis of some Mixed Transition Metal Complexes, their Characterization and Antimicrobial Activity Studies. SRTMU's Research Journal of Science. 2(1), 88-100. ISSN: 2277-8594.
10. A. K. Nikumbh, A. V. Nagawade, **V. B. Tadke,** P. P. Bakare (2001), Electrical, magnetic and Mössbauer properties of cadmium-cobalt ferrites prepared by the tartarate precursor method, Journal of materials science 36 (3), 653-662.
11. G. R. Pathade, R. P. Pawar S. S. Pawar , C. S. Patil , **V. B. Tadke,** S. M. Vhankate , S. A. Dhanmane, (2014) Synthesis, Characterization and Biological Activity of some Tartarates and Transition Metal Complexes, IJPSR 5 (4), 1557-1565.
12. M. A. Betallu, **V. B. Tadke,** G. R. Pathade, K. B. Sapnar, M. B. Ubale, (2016) Synthesis, characterization and microbial activity of mixed transition metal-calcium tartarate complexes, J. Applicable. Chem 5 (1), 165-178.
13. M. B. Ubale, M. A. Betallu, **V. B. Tadke,** S. M. Vhankate, G. R. Pathade, (2016) Synthesis, characterization and in vitro antimicrobial activity of mixed „transition metal–Barium Tartarate complexes, World Journal of Pharm. Research 5 (6), 1578-1594.
14. M. A. Betallu, **V. B. Tadke,** S. M. Vhankate, G. R. Pathade, A. G. Pathade, (2017) Antibiofilm Activity of Mixed Transition Metal (Mn, Fe, Co, Ni, Cu and Zn) Calcium Tartarate Complexes, Int. J. Pharm. Sci. Res 8, 4745-4749.
15. M. Betallu, **V. Tadke,** S. Vhankate, G. Pathade, A. Pathade, M. Ubale, (2017) Mixed Transition Metal (Mn, Fe, Co, Ni, Cu and Zn)-Barium Tartarate'Complexes as an Anti-Biofilm Agent, Der Pharm. Lett 29, 4745-4749.
16. S. S. Pawar, C. S. Patil, **V. B. Tadke,** S. M. Vhankate S. A. Dhanmane, R. P. Pawar, (2016) Copper-Nickel Tartarates Composites: A Reusable and Green Catalystsfor the Synthesis of Quinolines and Dihydropyrimidines Derivatives, European Chemical Bulletin 5 (6), 221-224.

Participation in Conferences/Seminars/Symposia/Workshop:

1. Nita Dhavale, C. S. Patil, **Vijay Tadke** and Shridhar Vhankate, international symposium on '**Exploring New Horizons in Chemical Sciences (ENHCS-2019)' Department of Chemistry, Deogiri College, Aurangabad (MS), India, 10th-12th January 2019.**

2. S. S. Pawar, N. S. Dhavale**,** C. S. Patil, S. M. Vhankate, R. P. Pawar and **V. B. Tadke, International conference on 'Latest innovations in science, engineering and management' organized by the International Centre Goa, Panjim, Goa (India), 28th - 30th September 2017.**
3. S. M. Vhankate, S. S. Pawar, S. A. Dhanmane, N. S. Dhavale, and **V. B. Tadke, National conference on 'Advances in Chemical Sciences with Special Reference to Molecular spectroscopy, Material science and Organic Electronics (NCACS – 2014)' organized by Department of Chemistry, Fergusson College, Pune, 19th – 20th December 2014.**

Events Organized/Coordinated:

Sr. No	Name of the Event	Name of organizing Institute/ College/University	Nature of contribution	Dates
1	National conference on "Advances in Chemical Sciences with reference to Molecular Spectroscopy, Material Sciences and Organic Electronics"	Fergusson College	Member of organizing committee	2014

Additional skills/Activities

Pioneer in Microscale Techniques.