

CURRICULAM VITAE

NAME : **Dr. PUSHPA B**

Designation : Assistant profess

Department : Chemistry

Qualification : MSc, B Ed, PhD.,

Areas of Specialization : Organic chemistry, medicinal chemistry & Nanotechnology

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Education qualification				
Sl no	Degree	Specialization /Subject	University	Year of award/Passing
01	Ph D	Organic chemistry	Kuvempu university	2014
02	B Ed	CB method	Kuvempu university	2008
03	PG	General chemistry	Kuvempu university	2007
04	UG	Chemistry, Botany, Zoology	Kuvempu university	2005

Professional details (Academic/Research Experiences)

Sl. No.	Designation	Institution/University	UG/PG /PUC	From	To
01	Assistant professor	DOS in Chemistry Davangere University	PG	19-08-2019	Present
02	Principal	Jain PU college Davangere	PUC	05-06-2017	18-08-2019
03	Lecturer	Sheshadripuram composite PU college Bangalore	PUC	15-06-2015	05-06-2017
04	Research Scholar	Department of chemistry Kuvempu university	PhD	15-04-2009	19-03-2014

Area of Research Interest

1. Synthetic Organic Chemistry, Medicinal Chemistry & Computational Studies.
2. Nano material preparation and electrochemical studies.

Academic Responsibilities

1	Swayam NPTEL, Assistant Coordinator, DoS in Chemistry, DU, Davangere
2	IQAC, Assistant Coordinator, DoS in Chemistry, DU, Davangere.
3	ICC, Assistant Coordinator, DoS in Chemistry, DU, Davangere.
4	Member of Board of studies in Chemistry at Davangere University.
5	Member of Board of Examination in Chemistry at Davangere University.
6	2025:LIC committee member, DU, Davangere.
7	Institutional Chemical Ethical Committee co-ordinator, DU, Davangere.
8	Food Quality Checking committee member, DU, Davangere.
9	Shivagangothri youth fest member, DU, Davangere.
10	Vigilance officer for UG examination, DU, Davangere.
11	2024-25: Member, BoE, Department of Studies in Pharmaceutical Chemistry and PhD Course work, Kadur PG Centre, Kuvempu University, Shimoga. Karnataka
12	2025-26: Member, BoE, Department of Chemistry, Bengaluru North University, Department of Chemistry, Mangasandra, Kolar
13	2025-26: Stock verification committee Head, DU, Davangere.
14	2025-2026 Faculty of Science and Technology division member 2025-2026
15	Azadika Amrutha Mahotsav committee member, DU, Davangere

Details of the PhD Students

Name of the student	Title	Registration Year	University	Status
Pushpa M	Electrochemical Studies of Metal and Metal Oxide Nanostructures	2022-23	Davangere University	Ongoing
Mallika Banu N R	Synthesis and Pharmacological activity of O,N,S containing Heterocyclic Compounds	2022-23	Davangere University	Ongoing
Darshan K. S.	Synthesis and Characterization of MOF for Electrochemical and Environmental Applications	2024-25	Davangere University	Ongoing
Nagaraj N Nayak	The Pharmacological Applications of N-Heterocycles: Synthesis and Characterization	2024-25	Davangere University	Ongoing

Research publication

International Journals, National Journals and conference proceedings

1	Pushpa M., Pushpa B., Soumya S. Bulla, Chetan Chavan and N. R. Mallika Banu. "Silver Nanoparticles for the Energy Future: Synthesis, Smart Properties and Disruptive Applications." Journal of The Electrochemical Society 172 (2025): 090530 DOI https://doi.org/10.1149/1945-7111/ae0525
2	NR, Mallika Banu, B. Pushpa and M. Pushpa. "Pharmacological screening and docking studies of novel benzene-1-sulfonamide linked 2, 3-dihydroquinazolin-4 (1H)-one derivatives." Total Chemistry (2025): 100016. DOI https://doi.org/10.1016/j.totche 2025.100016.
3	Mallika Banu, Navilehal Raheem, Basavarajappa Pushpa, and Mallikarjuna Pushpa. "Recent Advances in the Pharmacological Applications of 1, 3, 4-Oxadiazole Derivatives: A Comprehensive Review." Journal of Heterocyclic Chemistry 62.10 (2025): 1301-1327. DOI https://doi.org/10.1002/jhet.70022
4	Pushpa M., Pushpa B., Yuvarajgouda Patil., Mallika Banu N R., "Preparation of Eco-Friendly Engineered NiO NPs-Modified Electrode for the Sensitive Voltammetric Detection of L-Tryptophan" Journal of Electrochemical Society.(2026) DOI: 10.1149/1945-7111/ae62ae
5	Vijaykumar C J, Soumya S Bulla, Chetan Chavan, H P Nagaswarupa, R F Bhajantri, Pushpa B, Ramachandra Naik "Comprehensive review of solid-state batteries: Theoretical conceptualization to sustainable energy storage technologies" Journal of energy storage(2026). DOI https://doi.org/10.1016/j.est.120431
6	Pushpa M, Pushpa B, Mallika Banu N R, and Siddesh M B. "Phytochemical Profiling and Antimicrobial Potential of Soxhlet-Derived Crude Extracts of <i>Alstonia scholaris</i> "- Proceeding title: "Emerging Trends in Chemical Sciences and Technology" Publisher: Publisher: Department of Chemistry, K.L.E. Society's S.K. Arts College and H.S.K. Science Institute, Hubballi –580031, Karnataka State, India. NCETCST 2025 ISBN: 978-81-954849-2-8
7	Mallika Banu N R, Pushpa B, Pushpa Mand Siddesh M B "Oxadiazole Scaffolds as Emerging Therapeutic Leads: A Comprehensive Overview-" Proceeding title: "Emerging Trends in Chemical Sciences and Technology" Publisher: Department of Chemistry, K.L.E. Society's S.K. Arts College and H.S.K. Science Institute, Hubballi –580031, Karnataka State, India. NCETCST 2025 ISBN: 978-81-954849-2-8
8	Pushpa Ma, Pushpa B Poly(vinyl alcohol) nanocomposite and their electrochemical performance Proceeding title: Green Synthesis of Nanomaterials Publisher: PMCoE Government JST PG College, Balaghat (M.P.) 481001 GSONM-2026ISBN :978-93-5717-260-8
9	H.G. Shruthi, N.H .Veena, B.Pushpa, M. Thippeswamy. " Eco-friendly Green synthesis of Zinc Oxide Nanoparticles from germinated Finger Millet with Enhanced Antimicrobial and Antioxidant Activities" international Journal for Multidisciplinary Research (IJFMR): Augst 2026 EISSN 2582-2160 volume 8 Issue 4
10	H.G. Shruthi, N.H .Veena, B.Pushpa, M. Thippeswamy. Phyto fabricated Silver Oxide from Germinated Finger Millets: Insight into Structural properties and

	Biological Activities. STAPS Journal April 2026 ISSN NO: 1782-1568 Volume 12 Issue 4
11	Pushpa B, phytochemical and antimicrobial evaluation of leaves extracts of <i>pergularia daemia</i> from davangere region ©2023 JETIR July 2023, Volume 10, Issue 7 ,353-358
12	B. Pushpa, K. P. Latha, V. P. Vaidya, A. Shruthi, C. Shweath, “Phytochemical and antimicrobial evaluation of leaves extracts of <i>Taebarnaemoutana coronaria</i> ” Journal of Chemical and Pharmaceutical Research, 2012, 4(7); 3731-3733.
13	B. Pushpa, K. P. Latha, V. P. Vaidya, A. Shruthi, C. Shweath, “In vitro Anthelmintic activiy of Leaves extracts of <i>Tabernaemoutana coronaria</i> ”. International Journal of ChemTech Research, 2011, 3(4); 1788-1790.
14	K. Asha, K.P. Latha1, H.M. Vagdevi, C. Shwetha, B. Pushpa, A. Shruthi, “In vitro Anthelmintic activity of bark extracts of <i>Pajanelia longifolia</i> K.Schum”. An International Research Journal of Pharmacy and Plant science, 2013, 1(2); 1-5.
15	A. Shruthi, K.P. Latha, H.M. Vagadevi, B. Pushpa, C. Shweath, “Anti-diabetic activity of the leaves extracts of <i>Wrightia Tinctoria</i> on alloxan induced diabetic rats”. Journal of Chemical and Pharmaceutical Research, 2012, 4(6); 3125-3128.
16	C. Shwetha, K.P. Latha, B. Pushpa, A. Shruthi, V.P. Vaidya, “Phytochemical screening and evaluation of in-vitro antioxidant activity, total phenolics and flavanoids of <i>Holarrhena antidysentrica</i> leaf extracts”. International Journal of Research in Pharmacy and Chemistry, 2011, 1(3); 546-550.
17	Shruthi, K.P. Latha, H.M.Vagdevi, V. P. Vaidya, B. Pushpa, C. Shwetha, “in vitro Anthelmintic Activity of Leaves Extract of <i>Wrightia tinctoria</i> ”. International Journal of ChemTech Research, 2010, 2(4); 2043-2045.

Book Published/Chapter contributed with details

1	C.J. Vijayakumar, Soumya S. Bulla, Chetan Chavan, B. Pushpa . ”Green Synthesis of Silver-Based Nanomaterials and Nanocomposites, and Sustainable Breakthrough in the battery application: A Review.” 2024 Book Chapter Details: Multifunctional Inorganic Nanomaterials for Energy Applications edited by H.P. Nagaswarupa, Mika E.T. Sillanpää, H.C. Ananda Murthy, Ramachandra Naik
2	M. Pushpa, B. Pushpa , Soumya S. Bulla, and Chetan Chavan. “Inorganic Nanomaterials: A Review of Synthesis, Properties and Recent Breakthroughs in Battery and Fuel Cell Technology.” 2024 Book Chapter Details: Multifunctional Inorganic Nanomaterials for Energy Applications edited by H.P. Nagaswarupa, Mika E.T. Sillanpää, H.C. Ananda Murthy, Ramachandra Naik

National conference paper presented

1	B. Pushpa , K.P. Latha, V.P. Vaidhya, M.S. Latha, M. Paramesh “Evaluation of anthelmintic and Antimicrobial activity of leaves extracts of <i>Taebarnaemoutana coronaria</i> ”. UGC-DRS Sponsered National Conference on Recent Research Trends in Synthetic organic and Natural Products Chemistry . March 29-30, 2010 , Held at Dept of Chemistry, Sri Venkateshwara University, Tirupati
2	B. Pushpa , K.P. Latha, V.P. Vaidhya, “Anthelmintic activity of leaves extracts of <i>Taebarnaemoutana coronaria</i> ”. Two days national seminar on Social Relevance of Chemical Sciences . March 26-27, 2011 , Held at Dept of Chemistry, Kuvempu University, Shankaraghatta.
3	B. Pushpa, K.P. Latha, V.P. Vaidhya, “synthesis and anthelmintic activity of some naphtho[2,1-b] furan-2-carboxamide derivatives”. Two days national seminar on Fronteriers and challenges in chemistry . October 10-11, 2013 , Held at Dept of chemistry Don Bosco institute of technology Bangalore.
4	M. Pushpa, B. Pushpa, N.R. Mallika Banu, “Preparation and Spectral Profiling of NiO NPs Interceded by <i>Adhatoda zeylanica</i> Plant Leaf Extract for Electro oxidative Voltammetric Determination of L-tryptophan”. One-day National Conference on Emerging trends in Chemical Sciences and Technology . November 12, 2025 , Held at Dept of Chemistry Shri Kadasiddheshwar Arts college and H.S.Kotambari Science Institute, Hubballi
5	N.R. Mallika Banu, B. Pushpa, M. Pushpa, “In vitro and In Silico antibacterial evaluation of novel 1-(furan-2-yl)-2-[(2E)-2-[(2E)-3-(2-methoxyphenyl)prop-2-en-1-ylidene]hydrazinyl]ethan-1-one incorporated with Sulfamethoxazole”. One-day National Conference on Emerging trends in Chemical Sciences and Technology . November 12, 2025 , Held at Dept of Chemistry Shri Kadasiddheshwar Arts college and H.S.Kotambari Science Institute, Hubballi

International conference paper presented

1	B. Pushpa, K.P. Latha, V.P. Vaidhya, C. Shweatha, K. Asha, H.J .Manjunath “Synthesis and Investigation of Antimicrobial activity of 4{[(1nitro5, 9b dihydro naphtho [2,1b]furan-2 yl)carbamoyl]amino}benzenesulfonamide”. Three days international conference on synthetic and structural chemistry . Dec 8-10, 2011 , Held at Dept. of studies in Chemistry, Mangalore University, Mangalore.
2	K. Asha, K.P. Latha, H.M Vagadevi, C.Shwetha, B Pushpa , A. Shruthi, “Invitro anthelmintic activity of bark extract of <i>pajanelia longifolia</i> k. schum”. Two days international conference –industry –CCRS congress (ICC) 2013 coastal chemical research society . July 13-14, 2013 , Held at Sanketika Vidya Parishad Engineering college Visakhapatnam, Andhra Pradesh, India.
3	B. Pushpa, “Phytochemical and antimicrobial evaluation of leaves extracts of <i>pergularia daemia</i> from davangere region”. Two days international conference on Chemical Sciences ICCS . June 22-23, 2023 , held at Dept of Science, Christ Academy Institute for Advanced Studies, Hullahalli, Bangalore.
4	M. Pushpa, B. Pushpa, N.R. Mallika Banu, “Synthesis of silver nanoparticles mediated by <i>Clitoria ternatea</i> leaf extract and their electrochemical studies”. Two days international conference on Integrative chemical science for health & environment . October 6-7, 2023 , held at Deshbandhu College, University of Delhi, New Delhi.
5	N.R. Mallika Banu, B. Pushpa, M. Pushpa, "Synthesis and characterization of benzenesulfonamide linked-oxadiazole derivatives" Two days international conference on Contemporary Research in Engineering, Science, Management & Arts . Feb 22-24, 2024 , held at Centre for Research & Training and National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu, India

6	M. Pushpa, B. Pushpa, N.R. Mallika Banu, "Facile Green Synthesis of NiO Nanoparticles for the Spectral Profiling and Sensitive Voltammetric Detection of L-Tryptophan". Two days international conference on Innovation in Sustainable energy and material science. March 1-2, 2024 , held at KSCST, KSBDB and JNNCE, Shivamogga.
7	N.R. Mallika Banu, B. Pushpa, M. Pushpa, "Synthesis and Characterization of 5-substituted-1,3,4-oxadiazole linked benzene sulphonamide derivatives". Two days international conference on Innovation in Sustainable energy and material science. March 1-2, 2024 , held at KSCST, KSBDB and JNNCE, Shivamogga.
8	N.R. Mallika Banu, B. Pushpa, M. Pushpa, "Synthesis and antibacterial evaluation of 2-amino-s-phenyl-1,3,4-oxadiazole-schiffbases" Two days international conference on New Challenges and Innovations in Molecular Medicine. May 28-29, 2025 , Held at Dept of Chemistry, University of Mysore, Manasagangotri, Mysuru- 06.

Conference/ Workshops/Trainings attended/organized: National & International

- **International Conferences attended:** Participated in eight days International 5th *Science Conclave*. December 8-15, 2012. Held at IIIT Allahabad, Allahabad, Uttar Pradesh.
- **National conference:** Organizing member of National Conference –on "Herbal Medicines in the Era of Globalization" held at Department of Chemistry, Sahyadri Science College (Autonomous), Shimoga on September 10th & 11th 2011.
- Member of the organizing committee for the event – "**International Year of Periodic Table**" (Speaker – Prof. B.S. Sherigara, Former Vice-Chancellor, Kuvempu University, Shivamogga) organized by the Department of Chemistry on 03-12-2019 at Department of Chemistry, Davangere University, Davanager-577007
- Member of the organizing committee for the event "Hands on Training Program on Battery and Fuel Cell" (Speaker –Dr. Ravi kumar T, Research Scientist, New Castle University, New Castle, UK) organized by the Department of Chemistry on 06-01-2020 at Department of Chemistry, Davangere University, Davanager-577007
- Member of the organizing committee one day work shop on **HYPOWER GREEN ENERGY TECHNOLOGIES** organized by the Department of Chemistry in association with Royal society of chemistry and hydro power green energy technologies on 12-03-2026 at Department of Chemistry, Davangere University, Davanager-577007
- Member of the organizing committee **National Conference on "Recent Trends in Chemical Sciences"** organized by the Department of studies in Chemistry organized by the Department of Chemistry on 29-05-2026 at Department of Chemistry, Davangere University, Davanager-57700

National Conferences attended:

- UGC sponsored *National Conference on Herbal Medicines in the Era of Globalization*. Sep 10-11, 2011. Held at Dept of Chemistry, Sahyadri Science College (Autonomous), Shimoga.
- UGC sponsored one day workshop on *Through the instrument - applications of analytical tools*. Mar 23rd 2011, held at Sahyadri Science College (Autonomous), Shimoga.
- UGC sponsored one day state level seminar on *Analytical Techniques in the present Scenario*. March 27, 2010. Held at Dept of Chemistry, Sahyadri Science College (Autonomous), Shimoga.

Invited Lectures / Resource Person

1	Invited for special lecture on Terpens 6/6/2023 AVK college Davangere.
2	Technical talk delivered on Mass Spectroscopy five day webinar titled Bioanalytical techniques held 29 Dec to 2020 to 2/01/2021 GMIT Davangere.
3	Invited talk on spectroscopy for the academic year 2021 Food technology department Davangere university.

Personal details

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