Dr.Itte Pushpavathi

Assistant Professor | Dept. of Industrial Chemistry

9538910868 @ ittepushpa.chem@gmail.com Kuvempu University,Jnanasayadri,Shankaraghatta-577451,Shivmogga,Karnataka

☆ Area of Specialisation: Synthetic organic chemistry, Chemistry of natural products, Computational chemistry

SUMMARY

Teaching experience of 17+ years in specialization of Organic chemistry,Analytical Chemistry and Spectroscopy. Research areas are synthetic organic chemistry, computational Chemistry(DFT,Insilico docking,Molecular Dynamics simulations) and chemistry products, and passionate about passionate about guiding students in their academic and professional journey through mentorin teaching.

EDUCATION

Ph.D in Computational Chemistry

Vijayanagara Sri Krishna Devaraya University, Bellary

2015 - 2019 Bellary, Karnataka,India

Master Of Science in Chemistry of Natural products

Sri Krishnadevaraya University

2005 - 2007 S.K.U.P.G Cetre,Kurnool,AndhraPradhesh,India

Bachelor of Science (P.C.M)

Sri Krishnadevaraya University

2002 - 2005 KVR Govt.Degree College,Kurnool,A.P,India.

EXPERIENCE

Assistant Professor

Kuvempu University

2018 - 2025 Dept.Of Industrail Chemistry,Kuvempu University,Shivmogga.

Duties encompass teaching, research, and service, including delivering lectures, conducting research, mentoring students, and contributing to departmental and university activities.

- Teaching in organic chemistry and Spectroscopy,
- Conducting research and mentoring Ph.D students in synthetic organic chemistry, computational Chemistry
- Publishing research papers in national and international journals

Guest lecturer

Govt.First Grade Degree College,Manvi

2011 - 2018 Raichur,Karnataka.

Taught in all specializations of chemistry and mentoring graduate students through weekly lab sessions

Lecturer

Sri Sankaras P.G.College

2008 - 2011 Kurnool,A.P, India

Taught specializations of Organic chemistry ,Analytical Chemistry & Physical chemistry for Post Graduate students and conducting the practicals in lab sessions.

STRENGTHS

Effective Teaching

Flourished in teaching chemistry concepts to over 2000 Post graduate and graduate students within 17years

Good Research Skills

Conducted comprehensive research in synthetic organic chemistry and Computational chemistry(DFT,Insilico Docking.MD Simulations) and guiding research students which resulted in research papers published in National and International journals.

Cross-Cultural Ambidexterity

Involved in administrative activities as Faculty Adviser of P.G and Research Scholars Hostel(Women) and Coordinator of Women Harassment Redressal Cell, Kevumpu University.

CERTIFICATION

Qualified Karnataka State Eligibility test(K-SET) in 2014 and AP SET-2017

LANGUAGES

English,Telugu,Kannada,Hindi

PUBLICATIONS

1. D. Sateesha, Sampath Chinnam, Guddekoppa S. Ananthnag*, T. Chandra Shekhara Shetty, **Itte Pushpavathi**, G. Vinitha6, and S. Raghavendra1,*Structure–property relationship of an organic crystal(*E*)-3-(4-(dimethylamino)phenyl) -1-(4-(methylthio) phenyl)prop-2-en-1-one through linear, nonlinear optical, molecular docking, and DFT investigations for optoelectronic applications, J Mater Sci: Mater Electron (2025) 36:501
2. Sultana Shaik, SaiTeja Talari , RamaMohanaReddy Sirigireddy , **Pushpavathi Itte**, Kakarla R aghava Reddy , Chinna Gangi Reddy Nallagondu, Tejraj M. Aminabhavi, TiO2 nanotubes as an efficient green catalyst for the multi-component synthesis of blue light emissive pyrazolyl-thaizole based fluorophores, Nano-Structures & Nano-ObjectsVolume 41, February 2025, 101439.
3. Sukanya, S.H.,Venkatesh, T.,**Pushpavathi, I**.,Joy, M.N.Synthesis, characterization and biological evaluation of some new 2-[(4-hydroxy-6-methylpyrimidin-2-yl)amino]-1-(4-substituted) ethanone derivatives, Journal of Molecular Structure 1307,2024
4. MaruthiNayaka T.H, **Itte Pushpavathi***, Vishwanath R.S., KumarSwamy B.E, Upendranath K. , Ashoka G.B,Synthesis,characterization of new electrochemical activated sulfadiazine azo dyes and its theoretical studies with LFPs, antioxidant application, Materials Science and Engineering: B Volume 305, July 2024, 117400.

5. Champa R.;Vishnumurthy K.A.;Bodke Y.D.;Bhojyanaik H.S.;Pushpavathi I. ;Satyanarayan N.D.;Nippu B.N ,Facile ZnO NPs catalyzed synthesis of substituted 4-amino-6-(1H-benzimidazol-2-ylsulfanyl)benzene-1,3-dicarbonitrile new derivatives as Potent biological agents,.Current Chemistry Letters, Volume **13,** Year **2024,** Pages 569-592.
6. Pavithra.S, **Pushpavathi Itte ***, Mussuvir Pasha K M, Maruti Nayak T H, Synthesis, Biological Evaluation, Molecular Docking and Molecular Dynamic Simulation Studies of Some New 5-(3,4,5-trimethoxybenzyl)pyrimidine-2,4-diamine (Trimethoprim) Derivatives via Modified Mannich-type Reaction,Russian journal of Bioorganic chemistry, 2024, 50(2), 1–15.
7. Melkeri, S.P.,Naik, P.P.,Satyanarayan, N.D.,**Pushpavathi, I**.,Krishnamurthy, G.,Chavan, P.W. Synthesis and Characterization of Biopotent Transition Metal Complexes of Schiff Base2-{(1)-1 -[2- (1,3-Benzothiazol-2-yl)hydrazinylidene]ethyl}-6,10b-dihydro-3H-benzo[f] chromen-3-one and their Biological Evaluation, Asian Journal of Chemistry 36 (4) ,pp.844,2024
8. Maruti Nayak T H, **Pushpavathi Itte***, Pavithra.S, Nagesh.Y.R, Acetylcholine Inhibitory Study of Novel thiolinked coumarin – benzimidazole derivatives: Design, Synthesis, Computational and insilico molecular docking studies, Russian journal of Bioorganic chemistry, 2024, 50(1), 211–226.
9. Raghavendra Hegde**, Pushpavathi Itte*** ,Talavara Venkatesh,Nagaraja O,Ravi kumar S., Synthesis and anti-mycobacterium activity of some new N-rich heterocyclic derivatives and their molecular docking and DFT studies, Russian journal of Bioorganic chemistry, 2024, 50(1), 147–161.
10. Sateesha.D.Chinnam,S.Ananthnag.G.S.,**Pushpavathi**,I,Vinitha,G.,Serrao,F.J.,Raghavendra.S Crystal structure, third-order nonlinear optical property relationship, density functional theory, and in silico bio activity of organic non-centrosymmetric crystal (E)-1-(thiophen-2-yl)-3-(p-tolyl)prop-2-en-1-one, Structural Chemistry,2024.
11. Priya R. Kadam, Yadav D. Bodke, **Itte. Pushpavathi**, Manjunatha. B, N.D. Satyanarayan, B.N. Nippu, Synthesis, characterization, DFT and biological study of new methylene thio-linked coumarin derivatives, Journal of Molecular Structure, 2023, 1278, 134918.
12. R. Champa, K.A. Vishnu murthy, Yadav D. Bodke, H.S. Bhojya Naik, **Itte Pushpavathi**, P. Meghana, Priya R. Kadam, Synthesis, characterization, and biological investigations of potentially bioactive heterocyclic compounds containing benzimidazole nucleus, Results in Chemistry, 2023, 6, 101018.
13. Maliyappa, M.R & Keshavayya, J & Srinivas, Sudhanva & **Pushpavathi Itte**,Vinod kumar, Heterocyclic azo dyes derived from 2-(6-chloro-1,3-benzothiazol-2-yl)-5-methyl-2,4-dihydro-3H-pyrazol-3-one having benzothiazole skeleton: Synthesis, Structural, Computational and biological studies, Journal of Molecular Structure, 2022, 1247, 131321.

14. Nagaraja O, Bodke YD, **Pushpavathi I**, Ravi Kumar S, Synthesis, characterization and biological investigations of potentially bioactive heterocyclic compounds containing 4-hydroxy coumarin, Heliyon, 2020,6(6),e04245.
15. M. R. Maliyappa,J. Keshavayya,N. M. Mallikarjuna, **I. Pushpavathi**, Novel substituted aniline based heterocylc dispersed azo dyes coupling with 5methyl-2-(6-methyl-1,3 benzothiazole-2-yl)-2,4-dihydro-3H-pyrazole-3one:Synthesis,structutral computational and biological studies. Journal of Molecular Structure,2020,1205,127576.
16. Vinodkumar, J. Keshavayya, **I.Pushpavathi**,C.T. Keerthikumar, M. R. Maliyappa & B. N. Ravi,Synthesis, characterization, computational and biological studies of nitrothiazole incorporated heterocyclic azo dyes:. Structural Chemistry-2020, 31(4), 1317–1329.
17. Mallikarjuna.N.M, Keshavayya J, Pandurangappa.Malingappa, **I.Pushpavathi**,Synthesis, spectroscopic, DFT and electrochemical studies of heterocyclic azo dyes Derived from 1-{[(E)-benzylidene amino] (phenyl)methyl} naphthalen-2-ol:, Chemical Data Collections, 2020, 25, 100314.
18. **I.Pushpavathi**, K.M. Mussavir Pasha, S.Muthu, M.K. Amshumali,Spectroscopic (IR, UV, NMR) characterization of 4, 8 - di methyl 2, 6 -di phenyl 1,5 –dihydro S-Indacene and study of effect of substituents in its electronic properties: **2019,** 38C40-59.
19. **Pushpavathi. I**, M.K. Amshumali*, Mussavir Pasha, K.M ,Molecular Modeling, Geometry Optimization and Characterization of Bimetallic Complexes derived from s-Indacene.. Universal Journal of Chemistry,2017, 5(3): 48-57.