

## Faculty Profile

Name : Dr. Pavithra G  
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Department : Chemistry  
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**About me:** I am Dr. Pavithra G, currently working as a Assistant Professor, in the Department of Chemistry, at the National Institute of Engineering (NIE), Mysuru. My academic journey began at the University of Mysore, where I graduated my B.Sc., M.Sc., and Ph.D. in Chemistry. I have total 7 years of teaching (Teaching to Undergraduates, Postgraduates and Engineering students) and 10 years of research experience.

My research interest lies in organic chemistry, synthesis of nanomaterials via green synthesis, photo degradation, and electrochemical sensing for environmental and biomedical applications. I have published 21 research articles in reputed international journals and have successfully completed one minor research projects funded by the UGC.

My research journey is continuous to focus on synthesizing cost-effective nanomaterials and their applications in different field.

### **Qualification:**

<b>Programme</b>	<b>Specialization</b>	<b>Institution/University</b>
<b>Ph.D.</b>	Chemistry	University of Mysore
<b>M.Sc.</b>	General Chemistry	University of Mysore
<b>B.Sc.</b>	Physics, Chemistry, and Mathematics.	University of Mysore

### **Courses Taught:**

- 1. Organic, inorganic, and Physical Chemistry (B. Sc. and M. Sc.)**
- 2. Applied Chemistry for Civil Engineering**
- 3. Applied Chemistry for Mechanical Engineering**
- 4. Biology for Engineers**

### **Publications:**

#### **Journal Publication:**

1. **Pavithra Gurunanjappa**, Ajay Kumar Kariyappa, An easy procedure for synthesis of 1,3,4-Oxadiazines: A potential antimicrobial agents, *Asian Journal of Chemistry*, **2017**, 29(8), 1687-1689. <https://doi.org/10.14233/ajchem.2017.20540>.
2. **Pavithra Gurunanjappa**, Vivek Hamse Kameshwar, Ajay Kumar Kariyappa, Bioactive formylpyrazole analogues: Synthesis, antimicrobial, antioxidant and molecular docking studies, *Asian Journal of Chemistry*, **2017**, 29(7), 1549-1554. <https://doi.org/10.14233/ajchem.2017.20562>
3. N. Renuka, H.K. Vivek, **G. Pavithra**, K. Ajay Kumar, Synthesis of coumarin appended pyrazolyl-1,3,4oxadiazoles and pyrazolyl-1,3,4-thiadiazoles: Evaluation for their in vitro antimicrobial and antioxidant activities and molecular docking studies, *Russian Journal Bioorganic Chemistry*, **2017**, 43(2), 197-210. <https://doi.org/10.1134/S106816201702011X>
4. A.L. Amrutha Kala, Karthika Kumara, **G. Pavithra**, K. Ajay Kumar, N.K. Lokanath, Crystal structure and Hirshfeld surface analysis of (E)-2-(1-(2-phenylhydrazono)ethyl)naphtholen-1-ol. *Chemical Data Collections*, **2017**, 7-8, 107-115. <https://doi.org/10.1016/j.cdc.2017.01.003>
5. D.M. Lokeshwari, **G. Pavithra**, N. Renuka, N.K. Lokanath, S. Naveen, K. Ajay Kumar, (E)-1(Benzo[d][1,3]dioxol-5-yl)-3-(2,3-dichlorophenyl)prop-2-en-1-one. *IUCrData*, **2017**, 2(1), x170103.
6. A. L. Amrutha Kala, Karthika Kumara, **G. Pavithra**, M. Prabhuswamy, K. Ajay Kumar, N. K. Lokanath, Crystal structure and Hirshfeld surface analysis of (E)-2-(1-(2-(4-chlorophenyl)hydrozono)ethyl) naphtholen-1-ol, *Der Pharma Chemica*, **2016**, 8(19), 328-333.
7. **Pavithra Gurunanjappa**, Mylarappa B Ningappa, Ajay Kumar Kariyappa, Synthesis of pyrazole fused pyran analogues: Antimicrobial, antioxidant and molecular docking studies, *Chemical Data Collections*, **2016**, 5-6, 1-11. <https://doi.org/10.1016/j.cdc.2016.09.002>
8. M. Prabhuswamy, Karthik Kumara, **G. Pavithra**, K. Ajay Kumar, N.K. Lokanath, Synthesis, crystal structure and Hirshfeld surface analysis of 5-(3,4-Dimethoxyphenyl)-3-(thiophen-2-yl)-4,5-dihydro1H-pyrazole-1-carboxamide. *Chemical Data Collections*, **2016**, 3-4, 26-35. <https://doi.org/10.1016/j.cdc.2016.06.004>
9. A.L. AmruthaKala, Karthik Kumara, M. Prabhuswamy, **G. Pavithra**, K. Ajay Kumar, N.K. Lokanath, Hydrogen bonded supramolecular framework in a monoclinic

polymorph of (E)-2-(1-(2phenylhydrazono)ethyl)phenol. *Der Pharma Chemica*, **2016**, 8(12), 286-291.

10. **Pavithra Gurunanjappa**, Ajay Kumar Kariyappa, Synthesis of bioactive furan derivatised pyrazole carboxamides and their antimicrobial and antioxidant activities, *Der Pharma Chemica*, **2016**, 8(8), 611.
11. **Pavithra Gurunanjappa**, Ajay Kumar Kariyappa, Design, synthesis and biological evaluation of 1,3,4oxadiazoles/thiadiazoles bearing pyrazole scaffold as antimicrobial and antioxidant candidates, *Current Chemistry Letters*, **2016**, 5(3), 109-122.
12. M. Chandrashekar, A. Dileep kumar, **G. Pavithra**, N. Renuka, K. Ajay Kumar. Synthesis of novel bioactive pyrazole carbothioamides and their antifungal activity studies. *Der Pharma Chemica*, **2016**, 8(4), 118-121.
13. K. Ajay Kumar, N. Renuka, **G. Pavithra**, G. Vasanth Kumar. Comprehensive review on coumarins: Molecules of potential chemical and pharmacological interest. *J. Chem. and Pharm. Res.*, **2015**, 7(9), 67-81.
14. S. Naveen, **G. Pavithra**, M. Abdoh, K. Ajay Kumar. I. Warad, N.K. Lokanath. Crystal structure of 3(thiophene-2-yl)-5-p-tolyl-4,5-dihydro-1H-pyrazole-1-carbothiamide. *Acta Cryst. Sect. E*, **2015**, E71 Part 7, 763-765.
15. S.P. Vijaychand, **G. Pavithra**, K.R. Raghavendra, K. Ajay Kumar. An efficient route to synthesis of pyrazoline carboxamides bearing thiophene moiety as antimicrobial agents. *Der Pharma Chemica*, **2015**, 7(4), 85-89.
16. **Pavithra Gurunanjappa**, Renuka Nagamallu, Ajay Kumar Kariyappa. Synthesis and antimicrobial activity of novel fused pyrazoles. *Int. J. Pharm. Pharm. Sci.*, **2015**, 7(2), 379-381.
17. N. Renuka, **G. Pavithra**, K. Ajay Kumar. Synthesis and their antioxidant activity studies of 1,4benzothiazepine analogues. *Der Pharma Chemica*, **2014**, 6(1), 482-485.
18. Ajay Kumar K, **Pavithra G**, Renuka N, Vasanth Kumar G. Piperidone analogs: Synthesis and their diverse biological applications. *Int. Res. J. Pharma. and App. Sci.*, **2012**, 2(6), 145-154.
19. Ajay Kumar K, Lokeshwari D.M., **Pavithra G**, Vasanth Kumar G. 1,2,4-Oxadiazoles: A potential pharmacological agents-An overview. *Res. J. Pharm. and Tech.*, **2012**, 5(12), 1490-1496.
20. G. Vasanth Kumar, M. Govindaraju, N. Renuka, **G. Pavithra**, B.N. Mylarappa, K. Ajay Kumar. In vitro evaluation of antioxidant and antimicrobial activity of series of

new pyrazole derivatives; A study on the structure-activity relationship. *Int. J. Pharm. Sci. Res.*, **2012**, 3(12), 4801-4806.

- 21.** M. Govindaraju, G. Vasanth Kumar, **G. Pavithra**, M.A. Harish Nayaka, B.N. Mylarappa, K. Ajay Kumar. Evaluation of new tetra substituted pyrazolines for their antimicrobial and antioxidant activity; Structure-activity relationship. *IOSR J. Pharm. and Biolog. Sci.*, **2012**, 2(6), 30-34.

#### **SPONSORED PROJECTS AS PRINCIPAL INVESTIGATOR**

<b>Sl.No.</b>	<b>Title of the project</b>	<b>Grant Number</b>	<b>Funding agency</b>
<b>1</b>	Synthesis, characterisation and biological studies of novel isoxazole derivatives.	MRP(S)-1338/11-12/KAMY014/UGC-SWRO/ Dated 10.07.2012. Rs. 80,000.	University Grants Commission ( <b>UGC</b> )