

## Dr. Fazal Edakot

Assistant professor,  
Post Graduate and Research Department of Chemistry,  
Sirsyed College, Kannur University, Kerala-India.



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## Highlights

- 15 years of teaching experience. 6 years University level (B.Sc, M.Sc And Research)
- Extensive experience in Teaching Organic, Physical and Inorganic Chemistry.
- 13 Research papers published in international journals.
- Research Guide under Kannur University.

## Education

### **Ph.D. Chemistry**, (Awarded 2015 August).

University of Mysore, Central Food Technology Research Institute (CSRI)

Thesis title “Synthesis, Structural Studies and Biological Evaluation of Quinoline Analogues and their Metal Complexes”

Supervisor : Dr.S.nagarajan (Senior Scientist, SFS Department, CFTRI-CSIR)

### **Master of Science. Chemistry** (Awarded 2005)

Grade: First Class.

Periyar University, Salem, Tamilnadu.

### **Bachelor of Education. Physics and Chemistry** (Awarded 2007)

Grade : First Class with Distinction.

Bangalore University. Bangalore.

## Skills

- Highly skilled in teaching international students.
- Extensive experience in teaching physical and organic chemistry.
- Good at organic and inorganic synthetic techniques and crystal and molecular structural studies. ( X-ray Crystallography, DFT-IR, Raman, NMR spectroscopic studies, NLO, NBO and PED analysis) and biological evaluations (docking studies).
- Proficient in the use of a variety of instruments essential for characterization and interpretation.

**Please click the following link to watch my live class.**

<https://www.youtube.com/watch?v=KKZDdaiKrgI&list=PLCp4YkTvtGowwTYsPSC-23jUFP-kvdQcP>

### Area of Interest in Research:

Food Chemistry, Organic Synthesis, Structural Analysis, Computational Chemistry.

### Details of student pursuing Ph.D. Under My Guideship.

Students name	Title	University
1 <b>Shahabanu.P</b> Assistant Professor, Research and Post Graduate Department of Chemistry, Sir Syed College. Kannur University	<b>Chemical Investigation And Evaluation Of Cardamom (Elettaria Cardamomum) Qualities Of Authentic And Adulterated Product</b>	<b>Kannur University</b>

### Selected Publications.

1. Vibrational Spectroscopic and molecular docking study of 4-Methylphenylquinoline-2-carboxylate.  
**E. Fazal**, C. YohannanPanicker, H.T. Varghese, S. Nagarajan, B.S. Sudha. *Spectrochimica Acta, Part A: Molecular and Biomolecular Spectroscopy.*, 2015, 143,213-222
2. Spectroscopic investigation (FT-IR, FT-Raman), HOMO-LUMO, NBO analysis and molecular docking study of 4-chlorophenyl quinoline-2-carboxylate.**E. Fazal**, C. YohannanPanicker, H.T. Varghese, S. Nagarajan, B.S. Sudha. *Spectrochimica Acta Part A:Molecular and Biomolecular Spectroscopy* 2015,145,260-269.
3. Synthesis, Crystal and Molecular Structure Studies and DFT Calculations of Phenyl Quinoline-2-Carboxylate and 2-Methoxyphenyl Quinoline-2-Carboxylate; Two New Quinoline-2 Carboxylic Derivatives. **Edakot Fazal** , Jerry P. Jasinski , Brian J. Anderson , Manpreet Kaur , SubbanNagarajanand BelgurSatyanarayanaSudha.*Crystals*, 2015, 5, 100-115
4. Microwave assisted synthesis and biological evaluation of potential quinoline-2-carboxylates of aromatic compounds. **Edakot Fazal**, Pushpa S Murthy, Kamatham A Naidu, AnkisettyMaheshwaraiah, SubbanNagarajan, Belgur S Sudha. *Indo American Journal of Pharmaceutical Research*, 2015, 5, 02: 625-634

5. Crystal structure of 2-Isopropyl-5-methylcyclohexyl quinoline-2-carboxylate. **Fazal, E.**; Jasinski, J. P.; Anderson, B. J.; Sudha, B. S.; Nagarajan. *Acta Cryst.* 2013. E70, o35-o36.
6. Crystal structure of 4-Methylphenyl quinoline-2-carboxylate. **Fazal, E.**; Jasinski, J. P.; Krauss, S. T.; Sudha, B. S.; Yathirajan. *Acta Cryst.* 2012. E68, o3231-o3232.
7. Crystal structure of 4-Chlorophenyl quinoline-2-carboxylate. **Fazal, E.**; Kaur, M.; Sudha, B. S.; Nagarajan, S.; Jasinski. *Acta Cryst.* 2013. E69, o1841.
8. Crystal structure of 4-Chloro-3-methylphenyl quinoline-2-carboxylate. **Fazal, E.**; Kaur, M.; Sudha, B. S.; Nagarajan, S.; Jasinski, J. P. *Acta Cryst* 2013. E69, o1842-o1843.
9. Crystal structure of 2,5-Dimethylphenyl quinoline-2-carboxylate. **Fazal, E.**; Kaur, M.; Sudha, B. S.; Nagarajan, S.; Jasinski, J. P. *Acta Cryst.* 2014. E70, o147.
10. Crystal structure of 3,4-Dimethylphenyl quinoline-2-carboxylate. **Fazal, E.**; Kaur, M.; Sudha, B. S.; Nagarajan, S.; Jasinski, J. P. *Acta Cryst.* 2014. E69, o1853-o1854.
11. FT-IR, FT-Raman and NMR characterization of 2-isopropyl-5-methylcyclohexyl quinoline-2-carboxylate and investigation of its reactive and optoelectronic properties by molecular dynamic simulations and DFT calculations. Vidya V. Menon, **Edakot Fazal**, Y. Sheena Mary, C. Yohannan Panicker, Steven Armacovic Subban Nagarajand, C. Van Alsenoy. *Journal of Molecular Structure.*, 2017. 1127., 124-137.
12. Synthesis, Spectroscopic analysis and molecular docking studies of 4-chloro-3-methylphenyl quinoline-2-carboxylate. **Fazal Edakot**, Shana Parveen S, Monirah A. Alshaikh, C. Yohannan Panickerc, Ali A. El-Emam, Subban Nagarajand, C., *Science Letters Journal.*, 2016., 5.237.
13. Synthesis, FT-IR, FT-Raman, NMR spectra and molecular docking study of 2-methoxyphenyl quinoline-2-carboxylate. **Fazal Edakot**, Shana Parveen S, C. Yohannan Panickerc, Subban Nagarajand, C. Van Alsenoy. *Science Advances Today.*, 2016., 2., 25232

## Conferences

1. A Talk on 'Socio-economic implications of translational migration-A Malabar Perspective', Department of Commerce and Journalism., Sisyed College, Thaliparamba. (9<sup>th</sup> Feb 2019)

2. A Talk on 'Recent developments in polymer science'. Department of Polymer Science, NAM College Kallikandy. (28<sup>th</sup> Feb 2017)
3. A Talk on 'Computational Skills in Chemistry'. Department of Chemistry, Govt. Victoria College, Palakkad, Kerala (17<sup>th</sup> Nov 2017)
4. Presentation, Analysis of Electronic Spectra and DFT Calculations. *National Conference on pure and Applied Chemistry*. University of Mysore, Mysore. (December 2014).
5. Presentation, Synthesis of novel quinoline Analogues., *International Symposium on Challenges in Drug discovery programme*, karataka State Open University, Mysore. (February 2011)

### Teaching Experience

- Post Graduate Teacher, TIM Higher Secondary School, Nadapuram, Calicut, Kerala (2005 March-06 March)
- Faculty in Chemistry, BET College of Management and Science, Dodda Banaswady, Bangalore, (2007 March-08 March)
- IIT-JEE Trainer/ Faculty in Chemistry, BASE Academy of Science, Bangalore.  
[ An Institute of excellence in educational training associated with Mahavir Jain PU College, KLE PU College, RV PU College, St Joseph PU College and SadhVidhya College, Etc..(From 2006 to 2008 Dec as part timer and 2008 Jan to 2013 April as full timer)
- Faculty in Chemistry, Atomic Energy Central School under Indian Atomic Energy Education Society, Mysore (2009 March to 2010 March as a guest faculty)
- Academic Director/ IIT-JEE Trainer / Faculty in Chemistry, COACH INDIA, WMO English academy [A residential Training Institute, CBSE Syllabus.] (2013 March to 2014 March)
- Assistant Professor in chemistry, St.Philomina's College, Mysore (2010 March to 2011 March as a part timer)
- Post Graduate Teacher in Chemistry, Regional Institute of Education (National Council Of Educational Research And Training), Mysore ( 2015 June to 2015 December).
- Principal, Mysore Central PU college, Mysore. (2016 June to 2017 January)

- Assistant Professor, Post Graduate and Research Department of Chemistry, Sirsyed College, Kannur University. (From 2017 February onwards.)

### **Additional Qualifications**

- Qualified State Eligibility Test -2008 Kerala.
- A member of Indian Science Congress from 2013.
- Participated in preparing various study materials for secondary and higher secondary level using the suitable educational technology.
- A member of National Service Scheme (Social service) from 2000 March to 2003 March.

### **References**

1. Dr. S. Nagarajan (Supervisor)  
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Central Scientific and industrial Research- Central Food Technological Research  
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