

Faculty Profile of Dr. T. Suresh



Dr. T. Suresh
Assistant Professor
Department of Chemistry

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Research Area

- Organic Synthesis
- Natural Products Chemistry
- Quinoline based motifs for Biosensors

Education & Career

Education

Ph. D.

Subject : Chemistry

Institution : Bharathiar University

Affiliated University : Bharathiar University

Year of Award : 2004

M. Sc.,

Subject: Chemistry

Institution : Bharathiar University

Affiliated University : Bharathiar University

Year of Award : 1999

B. Sc.,

Subject: Chemistry

Institution: Srivasavi College, Erode

Affiliated University: Bharathiar University

Year of Award: 1997

Career

At Bharathiar University (Reverse Order)

Past Experience

Senior Research Scientist : 2015 to 2016 at Sami Labs Limited, Bangalore

Research Scientist : 2010 to 2015 at Parry Nutraceuticals (EID Parry India Limited), Chennai

Asst. Vice-President - R&D : 2009 to 2010 at Aanjaneya Biotech. Pvt Ltd., Maharashtra

Senior Research Scientist : 2007 to 2008 at Synthite Industrial Chemicals Ltd, Cochin, Kerala

Post-doctoral Fellow : 2005 to 2007 at Korea University, Seoul, South Korea

Post-doctoral Researcher : 2004 to 2005 at Hanyang University, Ansan, South Korea

Awards

- **Post-Doctoral Fellowship** - Samsung SDI Co. Ltd., Gyeonggi-do, South Korea - through Korea University **[2005-2007]**
- **Senior Research Fellowship** - Council of Scientific and Industrial Research, Government of India. New Delhi **[2002-2004]**
- **University Research Fellowship** - Department of Chemistry, Bharathiar University, State Government of Tamil Nadu, India **[2001]**

Membership

Visits

Collaborators

Others

Projects

Funded Projects (National Level)

- [Ongoing](#)
- [Completed-01](#)

Ongoing Projects List with necessary Information

1. A novel N-aryl substituted-2,7-carbazole-3,4-ethylenedioxythiophene's (NAC-EDOT's) molecule as a counter electrode for efficient solar cells

Dr.Suresh T.

2017-19

10 lakhs

Consultancy Projects

- [Ongoing](#)
- [Completed](#)

Ongoing Consultancy Project Informations

Completed Consultancy Project Informations

Research Guidance

- [Post Doc.](#)
- [Ph.D.](#)
- [M.Phil.](#)
- [M.Sc.](#)

Ongoing

Title

Name

Completed

Title

Name

Ongoing

Sample Data.

Completed

Sample Data.

Ongoing

Sample Data.

Completed

Sample Data.

Ongoing

Sample Data.

Completed

Sample Data.

Research Publication

- [International](#)
- [National](#)
- [Patents](#)
- [Conferences](#)
- [Books / Chapters](#)
- [Database](#)

2020

1. [Novel quinoline-based thiazole derivatives for selective detection of Fe³⁺, Fe²⁺, and Cu²⁺ ions,](#)

Selvaraj Shyamsivappan, Arjunan Saravanan, Nandakumar Vandana, Thangaraj Suresh, Shanmugam Suresh, Raju Nandhakumar, and Palathurai Subramaniam Mohan

ACS Omega 42, 5, 27245-27253 (2020)

2. [Novel phenyl and thiophene dispiro indenoquinoxaline pyrrolidine quinolones induced apoptosis via G1/S and G2/M phase cell cycle arrest in MCF-7 cells,](#)

Selvaraj Shyamsivappan, Arjunan Saravanan, Raju Vivek, Thangaraj Suresh, Ramasamy Shankar, K. M. Gothandam and Palathurai Subramaniam Mohan, New J. Chem., 44, 15031-15045 (2020)

3. [Application of real sample analysis and biosensing: Synthesis of new naphthyl derived chemosensor for detection of Al³⁺ ions,](#)

A. Saravanan, S. Shyamsivappan, Naveen Kumar K, T Suresh, N. Maroli, N. Bhuvanesh, P. Kolandaivel, P. S. Mohan,

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 241, 11868

(2020).

4. [A Novel 8-Nitro Quinoline-Thiosemicarbazone Analogues Induces G1/S & G2/M Phase Cell Cycle Arrest and Apoptosis through ROS Mediated Mitochondrial Pathway,](#)

Selvaraj Shyamsivappan, Vivek Raju, Arjunan Saravanan, Thangaraj Arasakumar, Suresh Thangaraj, Athimoolam Shunmuganarayanan, Palathurai Subramaniam Mohan,
Bioorganic Chemistry, 97,103709 (2020)

2019

5. [A Yb\(OTf\)₃ -catalyzed, convergent synthesis of new pyranyl and chromenyl substituted quinolines through eco-friendly approach,](#)

K Chandraprakash, S Amsaveni, M Sankaran, C Uvarani , Athar ata, P S Mohan and T Suresh,
Journal of Heterocyclic Chemistry, 56,11,2986-2992(2019).

6. [An efficient new dual fluorescent pyrene based chemosensor for the detection of bismuth \(III\) and aluminium \(III\) ions and its applications in bio-imaging,](#)

A Saravanan, S Shyamsivappan, T Suresh, G Subashini, K Kadirvelu, N Bhuvanesh, R Nandhakumar, P S Mohan,
Talanta, 198, 244-256 (2019).

7. [Regio- and Stereoselective Synthesis of Dispiro 8-Nitroquinolone Analogues and Their Cytotoxic Properties Against Human Cervical Cancer Cells HeLa,](#)

S Shyamsivappan, R Vivek, A Saravanan, T Arasakumar, G Subashini, T Suresh, R Shankar P S Mohan,
Med.Chem.Comm, 10,439-449 (2019).

2018

8. [Microwave- assisted synthesis of dihydrodibenzophenanthroline and its derivatives using a self-catalyzed Friedlander reaction,](#)

K Chandraprakash, N Vandana, M Sankaran, C Uvarani , Athar ata, P S Mohan and T Suresh,
Journal of Heterocyclic Chemistry, 55,12, 2766-2771 (2018),

9. [Selective Fluorescence Chemosensor: Pyrene motif Schiff base derivative for detection of Cu²⁺ ions in living cells,](#)

A Saravanan, G Subashini, S Shyamsivappan, T Suresh, K Kadirvelu, N Bhuvanesh, R Nandhakumar, P S Mohan,
Journal of Photochemistry & Photobiology A: Chemistry, 364, 424-432 (2018)

2013

10. [A Total and Convenient Synthesis of Orixiarine,](#)

T.Suresh, K.Velmurugan, R. Nandha Kumar and P.S. Mohan,
International Journal of Organic Chemistry, 3, 48-50, (2013)

2005

11. [Synthesis of pyranoquinoline alkaloids via \(4+2\) cycloaddition reaction,](#)

T. Suresh, R. Nandha Kumar, T. Dhanabal, and P. S. Mohan,
Heterocyclic Commun, 11(1), 79-84 (2005)

12. [Synthesis, characterization and antimicrobial activities of fused 1,6-naphthyridines,](#)

T. Suresh, T. Dhanabal, R. Nandha Kumar and P. S. Mohan,
Indian J Chem., 44B, 2375-2379 (2005)

13. [Synthesis of 6-methylbenzo\(b\)pyrido\[3,2-f\]\[1,6\]naphthyridines from 4-chloro-2-methylquinoline,](#)

T. Suresh, R. Nandha Kumar and P. S. Mohan,
Chemistry of Heterocyclic Compounds, 41(6), 778-781(2005)

2004

14. [Structural elucidation, 1H-NMR and Mass spectroscopic study of novel 4-amino-6-oxo, 4a, 5, 12, 12a tetrahydro \(7H\), benzopyrano\[3,2-c\]quinoline-6-one,](#)

R. Nandha Kumar, T. Suresh and P. S. Mohan,
Spectroscopy Lett, 37(6), 581-585 (2004).

15. [A convenient one-pot synthesis of benzopyrimido\[1,8\]naphthyridines by](#)

[Knoevenagel condensation,](#)

R. Nandha Kumar, T. Suresh, P. S. Mohan,
Chemistry of Heterocyclic Compounds, 40(11),1490-1492 (2004).

16. [Synthesis and Characterization of 12-ethoxy-3-oxo-4-phenyl-quinoline\[3,2-c\]\[1,3\]diazocines via Vilsmeier Haack Reaction,](#)

R. Nandha Kumar, T. Suresh, T. Dhanabal and P. S. Mohan,
J Ind Chem Soc, 81(7), 598-601 (2004).

17. [Utility of vilsmeier haack reagent in the synthesis of 3-amino-12-chloroquinoline\[3,2-e\] \[1,3\] diazocines,](#)

R. Nandha Kumar, T. Suresh, T. Dhanabal and P. S. Mohan,
Indian J Chem, 43B, 846-851(2004).

18. [An oxaza cyclohexane moiety with antimicrobial and antifeedant activity from nutrient stress callus of Salacia beddomei,](#)

M. A. Deepa, V. Narmatha Bai, T. Suresh, T. Dhanabal and P. S. Mohan,
Research Journal of Chemistry and Environment,8(1),74-75(2004).

2003

19. [Synthesis and antibacterial activities of 1,2,3,4,6,7,8,9-octahydro-1,3,7,9-tetraphenyl 5-pyrrolo-2,4,6,8-tetraoxo-10H, 5H pyrido\[2,3-d; 6,5-d'\] dipyrimidine,](#)

T. Suresh, R. Nandha Kumar and P. S. Mohan,
Heterocyclic Commun, 9, 2, 203-208 (2003).

20. [A facile approach to dibenzo\[b,f\]\[1,6\]naphthyridines using Vilsmeier's Conditions,](#)

T. Suresh, R. Nandha Kumar and P. S. Mohan,
Heterocyclic Commun, 9, 1, 83-88 (2003).

21. [Synthesis, characterization and antimicrobial activity of 4-phenyl-3-thiopyrimido\[4,5-b\] quinolines,](#)

T. Suresh, R. Nandha Kumar, S. Magesh and P. S. Mohan,
Indian J Chem, 42B, 2133-2135 (2003).

22. [Reactions of heterocyclic quinone methides: A facile entry to synthesize the alkaloid, flindersine and its analogues,](#)

R. Nandha Kumar, S. Thamarai selvi, T. Suresh and P. S. Mohan,
Indian J Chem, 42B, 187-188 (2003).

22. [Synthesize of novel benzopyrano pyrano pyrimidines and benzopyrano pyrano thio pyrimidines,](#)

R. Nandha Kumar, T. Suresh, S. Magesh and P. S. Mohan,
Indian J Chem, 42B, 184-186 (2003).

23. [Synthesis and antibacterial activity of pyrimido\[4,5-b\]quinolines,](#)

R. Nandha Kumar, T. Suresh and P. S. Mohan,
Indian J Chem, 42B, 688-689 (2003).

24. [Synthesis and antibacterial activities of newer derivatives of pyrido\[2,3- d;6,5- d'\]dithiopyrimidines,](#)

R. Nandha Kumar, T. Suresh and P. S. Mohan,
Indian J Chem, 42B, 1734-1737 (2003).

National Publications - Reverse Chronological Order

Patent Info

Conference Info

Books & Chapters Related Info

Database Related Info

Alumini Reflections: