



# SRM Valliammai Engineering College

(An Autonomous Institution)


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## Department of Physics

### Personal Details

Name :	Dr. R. Nithya Balaji	
Designation :	Assistant Professor(O.G)	
Educational Qualification :	M.Sc., M.Phil., (Ph.D.,)	
Experience:	13 yrs 4 months	
Area of Specialization :	Spectroscopy	
Date of Joining :	16.11.2009	
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### Educational Details

S.No	Degree	Branch/Specialization	Institution / University	Year
1	B.Sc.,	Physics	Queen Mary's College, Madras University	2006
2	M.Sc.,	Physics	Meenakshi College for Women, Madras University	2008
3	M.Phil	Scientific Instrumentation	Madras University, Guindy Campus	2009
4	Ph.D	Spectroscopy	Anna University, Chennai	2022

### Professional Society Memberships

1. Indian Science Congress Association
2. Indian Association of Crystal Growth
3. Indian Society for Technical Education

### Publication Details

1. **Rajendran Nithya Balaji**, Hariharasubramanian Krishnan, Rajendran Sri Balan 2019, 'Synthesis, molecular structure and multiple biological activities of N-(3-methoxyphenyl)-3-(pyridine-4-yl)-1H-pyrazole-5-carboxamide' Journal of Molecular Structure, vol. 1186, pp. 1-10.
2. **Rajendran Nithya Balaji**, Hariharasubramanian Krishnan, Rajendran Sri Balan 2020, "Synthesis, Molecular structure in vitro and in silico studies of - phenyl morpholine – Heterocyclic amides" Journal of Molecular Structure, vol. 1204, pp. 127563.
3. R. Kavitha , Swaminathan Nirmala, **Rajendran Nithyabalaji** , Rajendran Sribalan 2020, "Biological evaluation, molecular docking and DFT studies of charge transfer complexes of quinaldic acid with heterocyclic carboxylic acid" Journal of Molecular Structure, vol. 1204, pp. 127508.
4. M.P. Ramya Rajan , Ramaswamy Rathikha , **Rajendran Nithyabalaji** , Rajendran Sribalan 2020, "Synthesis, characterization, in silico studies and in vitro biological evaluation of isoniazid-hydrazone complexes" Journal of Molecular Structure, vol. 1204, pp. 128297.
5. M.P. Ramya Rajan , Ramaswamy Rathikha , **Rajendran Nithyabalaji** , Rajendran Sribalan 2021 "Synthesis, characterization, in vitro and in silico studies of bis-hydrazone complexes derived from terephthalic dihydrazide" Journal of Molecular Structure, vol 1242, pp.130683.

6. RengarajanKavitha, SwaminathanSivagami, ChandrasekaranMeganathan, **RajendranNithyabalaji** 2021, "Identifyingnovel Leucine-Rich Repeat Serine/Threonine-Protein Kinase 2 (LRRK2) Inhibitors Using molecular Modeling approaches Annals "of the Romanian Society for Cell Biology 25 , 8994-9009

### **International Conferences:**

1. Presented a research paper on 'Vibration Analysis - Current methods and Some improvements' in the 'International Conference on Instrumentation' (ICI 2009) held during 21<sup>st</sup> -23<sup>rd</sup> January 2010 organized by Instrument Society of India and Cummins College of Engineering,Pune.
2. Presented a research paper on 'Synthesis, Molecular structure and Multiple biological activities of N-(3-methoxyphenyl)-3-(pyridin-4-yl)-1H-pyrazole-5-carboxamide' in the '2nd International Conference on Advances in New Materials' (ICAN 2018) held during 8-9June 2018 organized by Department of Inorganic Chemistry, University of Madras, Chennai.
3. Presented a research paper on the 'Synthesis, Molecular Structure of Febuxostat-Isoniazid hybrid: Biological Evaluation and Insilico studies' in the 'International Conference on Green Chemistry for a Greener Planet held on 12th September 2018 organized by the Department of Chemistry, Anna Adarsh College for Women, Anna Nagar, Chennai-40.
4. Presented a research paper on "Synthesis and biological evaluation of 4-phenylmorpholine-heterocyclic carboxamidehybrid: in vitroanti inflammatory and antioxidant activities" in the International Conference on Materials and Spectroscopy(ICMS- 2018) held during 11- 12 December 2018 at Saveetha Engineering College, Thandalam, Chennai.
5. Presented a research paper "Synthesis characterization and biological evaluation of Ethylfebuxostat-isoniazid complex" in the International Conference on Physics of advanced materials and molecules (ICPAMM-2020) on 30-31 January 2020 organized by the Department of Physics Dr.Ambedkar Government Arts college, Vyasarpadi Chennai.
6. Presented a research paper Synthesis and comparative biological evaluation of 4- phenylmorpholine-heterocyclic carboxamidehybrid: *in vitro* and *in silico* studies in the National Conference on 'Recent Advances in Chemistry' (RAC-19) on 2021.
7. Presented a research paper Synthesis, Characterization of Pyridyl PyrazoleCarboxamide and their molecular docking studies against Sars-Cov-2 (Corona Virus) main protease International Virtual Conference on Energy Conversion and Storage (ICECS-2K21)'
8. Presented a research paper "Synthesis,spectral characterization and anti-inflammatory activity of quinolinecarboxylate-4-ammoniumacetophenone" Virtual International Conference on Hierarchically Structured Materials - 2021

### **National conference**

9. Presented a paper 'Vibration methods and its applications in National Conference on 'Latest techniques for use in scientific research' on 25th & 26th February 2010, organized by the Central Instrumentation Research and Service Department, University of Madras, Guindy Campus, Chennai – 600 025.
10. Presented a research paper 'Synthesis and comparative biological evaluation of 4- phenylmorpholine-heterocyclic carboxamidehybrid: *in vitro* and *in silico* studies' in National Conference on 'Recent Advances in Chemistry' (RAC-19) on 4th & 5th January2019, organized by the Department of Chemistry, Anna University,Chennai.

### **FDP and workshop**

1. Participated in the National Level Workshop on the 'Revealing the advances in Material Science' organized by the Dept. of Physics, Sri Sairam Institute of Technology, Chennai held on 19<sup>th</sup> and 20<sup>th</sup> July 2016.
2. Participated in the two days National Level Workshop on the 'Materials Characterization Technique' [Problem Solving Approach] organized by the Dept. of Physics, SRM University, Ramapuram Campus, during September 2-3, 2016.
3. Participated in the one day Faculty Development Programme in 'Engineering Practices Laboratory' held on 6<sup>th</sup> December 2017 at SRM Valliammai Engineering College, Chennai.
4. Participated in the one day Faculty Development Programme in 'Skill Development in Research, Projects and Patent Filing' held on 17<sup>th</sup> February 2018 at Saveetha Engineering College, Tandalam, Chennai.
5. Participated in the five days' workshop on 'Modelling and Simulation in Material Science and Engineering (MSME 2018) with hands on session organized by Computational Material Science group, Department of Physics during 18-22 June 2018' at Sathyabama Institute of Science and Technology, Chennai.

### **ATAL COURSES AND SHORT TERM COURSE**

1. Participated in short term course on "Photovoltaic Devices & Systems: Challenges and Scope" conducted as a part of quality improvement program, organized by the Department of Electrical Engineering, IIT Indore from 08/03/2021 to 13/03/2021
2. Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "One Week Online Faculty Development Program on Photonics" from 20/09/2021 to 24/09/2021 at RajarshiShahuMahavidyalayaLatur.
3. Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "OUTCOME BASED CURRICULUM AND EXAMINATION REFORMS" from 25/10/2021 to 29/10/2021 at B.V.V.S.Polytechnic(autonomous), Bagalkot.
4. Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Advanced FDP on "Effective Team Work" from 04/10/2021 to 08/10/2021 at Indian Institute of Technology Bhubaneswar.
5. Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "DESIGN THINKING AND CREATIVITY FOR EDUCATORS" from 27/09/2021 to 01/10/2021 at Vels Institute of science Technology and advanced studies.

