

SKSS ARTS COLLEGE, TIRUPPANANDAL –612 504
STAFF BIO-DATA

Name : Dr.K.SAROJINI DEVI
Designation: ASSISTANT PROFESSOR (Chemistry)
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Educational Qualification:

Degree	University / College	Year of Pass	Special Subjects	Grade / Per cent
PG	GOVERNMENT COLLEGE FOR WOMEN, THANJAVUR.	2010	CHEMISTRY	I CLASS WITH DISTINTION
Ph.D	ANNAMALAI UNIVERSITY	2020	CHEMISTRY	I CLASS

Teaching Experience

Institution/ Designation	From	To
SKSS ARTS COLLEGE /ASST- PROFESSOR	13.12.2019	Till Date

Summer Course:

Summer training in chemistry (STIC-2009), IGCAR, May 24 to June 03 2009.

PUBLICATIONS

[1] **K. Sarojinidevi**, P. Subramani, S.Parthiban, N. Sundaraganesan, One-pot synthesis, spectroscopic characterizations, quantum chemical calculations, docking and cyctotoxicity of 1-((dibenzylamino)methyl)-pyrrolidine-2,5-dione *Journal of Molecular Structure*, 1175 (2019).

[2] **K. Sarojinidevi**, P. Subramani, M. Jeeva, N. Sundaraganesan, M. Susai Boobalan and G. Venkatesaprabhu, Synthesis, molecular structure, quantum chemical analysis, spectroscopic and molecular docking studies of N-(morpholinomethyl)succinimide using DFT method, *Journal of Molecular Structure*, 1175 (2019) 609-623.

[3]**K. Sarojinidevi**, P. Subramani and N. Sundaraganesan, DFT supported investigations on molecular geometry and electronic structure of Mannich base

N-(morpholinomethyl)pyrrolidine-2,5-dione, *J. Emerging Technologies and Innovative Research (JETIR)*, 6 (2019) 227-234.

[4]Gurusamy Harichandran, **Krishnan Sarojini Devi**, Ponnusamy Shanmugam, Michael Immanuel Jesse and Krishnan Kathiravan, Amberlite IRA-400 Cl Resin Catalyzed Multicomponent Organic Synthesis in Water: Synthesis, Antimicrobial and Docking Studies of Spiroheterocyclic 2-Oxindoles and Acenaphthoquinone, *Current Organocatalysis*, 2018, 5, 13-24.

[5].G. Harichandran, **K. Sarojini devi**, P. Thangamuniyandi Hydrothermal preparation of TiO₂ nanoparticles and its application in the synthesis of 3-spirochromene-2-oxindoles in water. *International Journal of Innovative Research in Science & Engineering (IJIRSE)*,2014, **2347-3207**.

[6].**Sarojini devi K**, Meganathan C, Sundaraganesan N, Subramani P, 3D-QSAR using pharmacophore modelling, molecular docking and quantum mechanical approaches to discover the cyclin-dependent kinase 5(CDK5) inhibitors. *Spectrochimica acta- Biomolecular and biomedical spectroscopy* (under review)

SELECTED SCIENTIFIC PRESENTATIONS AT CONFERENCES

[1]G. Harichandran, **K. Sarojini Devi**, P. Thangamuniyandi, Hydrothermal preparation of TiO₂ nanoparticles and its application in the synthesis of 3-spirochromene-2-oxindoles in water, International Conference on Advances in New Materials ICAN-2014, 20th and 21st June, 2014, Department of Inorganic chemistry, University of Madras, Chennai.

[2]**K. Sarojini Devi**, P. Subramani and N. Sundaraganesan, Structural and vibrational spectroscopic analysis of N-(Morpholinomethyl) succinimide by DFT method, National seminar on New Trends in Chemistry (NTC-2016), Department of chemistry, Annamalai University, Annamalainagar, during 21st and 22st October,2016.

[3]**K. Sarojini Devi**, P. Subramani and N. Sundaraganesan, Molecular geometry, vibrational spectral assignments (FT-IR and FT-Raman) and NLO properties of N-(morpholinomethyl)succinimide used DFT (B3LYP) calculation, International Conference on Recent Advances in Applied Physics (ICRAAP-2017), 21st and 22nd September, 2017, Engineering Physics Section, Faculty of Engineering and Technology, Annamalai University, Annamalainagar, Tamilnadu.

[4] **K. Sarojini Devi**, P. Subramani and N. Sundaraganesan, *Synthesis, molecular geometry, FT-IR and FT-RAMAN, NMR and HOMO-LUMO analysis of N-(Morpholinomethyl) succinimide using DFT (B3LYP) calculation*, International Conference on Recent Trends in Synthetic methods and Material chemistry (RTSMC-2018), 2nd and 3rd February, 2018, Department of chemistry, Annamalai University, Annamalainagar, Tamilnadu.

[5] **K. Sarojini Devi**, P. Subramani and N. Sundaraganesan, *Synthesis, Molecular Structure, FT-IR, FT-Raman, UV- Visible and NBO analysis of N-(Morpholinomethyl) succinimide by DFT method*, International Conference on New materials & Arid Land (ICNMAL-2018), 15th and 16th March, 2018, Department of physics, St. Joseph's College of Arts & Science (Autonomous), Cuddalore.

[6] **K. Sarojini Devi**, P. Subramani and N. Sundaraganesan, *Synthesis, molecular geometry, NMR, HOMO-LUMO and NLO properties of N-(morpholinomethyl) succinimide based on DFT calculations*, International Conference on Computer Simulations in Natural Sciences (SIMSCI 2018), 4th to 6th April, 2018, Presidency College (Autonomous), Chennai, Tamilnadu.

[7] **K. Sarojini Devi**, P. Subramani and N. Sundaraganesan, *Synthesis, molecular geometry, vibrational assignments and thermodynamic properties of N-(morpholinomethyl) succinimide by DFT approach*, 4th International Young Scientist Congress (IYSC-2018), 8th and 9th May, 2018, International Science Community Association in collaboration with Rashtriya Sanskrit Vidyapeetha, Tirupati, Andhra Pradesh.

[8] **K. Sarojini Devi**, P. Subramani and N. Sundaraganesan, *Synthesis, molecular structure, vibrational, UV-vis, NMR, TG/DSC analysis of N-(morpholinomethyl) succinimide using DFT (B3LYP) calculation*, TNSCST Sponsored International Conference on Molecular Structure of Nano and Bio Materials (ICMSNBM-2018), 27th and 28th September, 2018, Arignar Anna Government Arts College, Cheyyar, Tamilnadu.

[9] **K. Sarojini Devi**, P. Subramani, S. Parthiban and N. Sundaraganesan, *One-pot synthesis, structural determination, Hirshfeld surface analysis, spectroscopic analysis, quantum chemical calculations and molecular docking studies of 1-((dibenzylamino)methyl)-pyrrolidine-2,5-dione*, CSIR, DST, TNSCST Sponsored National Conference on Recent Trends in Material Science (RTMS-

2018), 19th and 20th December, 2018, Department of Physics, Annamalai University, Annamalainagar, Tamilnadu.

[10]**K. Sarojini Devi**, P. Subramani and N. Sundaraganesan, DFT studies on synthesis, molecular geometry, vibrational, electronic structure, physico and chemical properties of (3-(morpholinomethyl)benzo[d]thiazole-2(3H)-thione), International Conference on Innovative Trends in Chemical Science (ITCS-2019), 4th to 5th February, 2019, Department of chemistry, Devanga Arts college, Aruppukottai.

[11]**K. Sarojini Devi**, P. Subramani and N. Sundaraganesan, Synthesis, molecular structure, vibrational and NMR analysis of ((2-piperidin-1yl)methyl)isoindoline-1,3-dione, International Conference on Advanced Chemical and Structural Biology (ICACSB-2019), 19th to 21st February, 2019, Prist Deemed to be University, Thanjavur, Tamilnadu.

[12]**K. Sarojini Devi**, P. Subramani and N. Sundaraganesan, Synthesis, molecular geometry, HOMO-LUMO, MEP, Fukui function and molecular docking studies of (2-piperidin-ylmethyl)-isoindoline-1,3-dione, International Conference on Advanced Materials for Catalysis, Energy and Environment (ICAMCEE-2019), 21st and 22nd February, 2019, Guru Nanak College (Autonomous), Velachery, Chennai, Tamilnadu.

[13]**K. Sarojini Devi**, P. Subramani, S. Parthiban and N. Sundaraganesan, Computational studies, spectroscopic analysis and structural determination of 1-((dibenzylamino)methyl)pyrrolidine-2,5-dione, International Conference on Advanced Concepts in Computational Engineering and Sciences (ICACCES19), 15th March, 2019, Bharathiyar College of Engineering and Technology, Thiruvetakkudy, Karaikal, U.T. of Puducherry.

[14] **K. Sarojini Devi**, P. Subramani and N. Sundaraganesan, DFT studies on synthesis, molecular geometry, electronic structure, physico-chemical properties of (3-morpholinomethyl)-benzo(*d*)-thiazole-2(3H)-thione, IQAC Enabled National Conference on Food Processing and Preservation: Biochemical Principles, Quality and Safety (FPP-2019), 22nd and 23rd March, 2019, Department of Chemical Engineering, Annamalai University, Annamalainagar, Tamilnadu.

SCIENTIFIC WORKSHOP AND CONFERENCE ATTENDED

[1]State level seminar on Emerging Trends of Research in Chemical and Biochemical Sciences, Department of Chemistry, A Veeriyar Vandayar Memorial Sri Pushpam College (Autonomous), Poondi, Thanjavur during 25th August, 2009.

[2]National conference on Recent Trends in Organic Synthesis-2011, School of chemistry, Bharathidasan University, Tiruchirappalli, during 24th -26th February, 2011.

[3]One day National Workshop on “Smart materials- Applications & Characterizations” organized by CCG, Department of Physics, School of Advanced Sciences, VIT, Vellore during 27th April, 2016.

[4]International conference on Nanomaterials and Molecular research (ICNMR-2016), Department of Physics, St.Joseph’S College of Arts &Science (Autonomous), Cuddalore during 8th and 9th December, 2016.

[5]National seminar on Recent Advances in Chemical and Environmental Research (RACE-2017), Department of chemistry, Annamalai University, Annamalainagar, during 20th and 21st January,2017.

[6]Two day Workshop on Vedic Science, 4th International Young Scientist Congress (IYSC-2018), International Science Community Association in collaboration with Rashtriya Sanskrit Vidyapeetha, Tirupati, Andhra Pradesh during 8th and 9th May, 2018.

[7]One day Workshop on Recent Advancement in Thermal Analysis Techniques (DSC, TGA, DTA, TMA, STA), Indian Institute of Technology, Madras, during 18th September, 2018.

[8]State level Workshop on Molecular Docking, Department of physics, Dwaraka Doss Goverdhan Doss Vaishnav college, Arumbakkam, Chennai, during 19th September, 2018.

[9] One day seminar on Revised Accreditation progress of NAAC seven criteria and their weightages, S.K.S.S Arts college, thiruppanathal.