



NEW PRINCE SHRI BHAVANI COLLEGE OF ENGINEERING AND TECHNOLOGY

(Affiliated to Anna University)

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Department of Science & Humanities (Physics)

Personal Details

Name:	Dr.N.Swarna Sowmya
Designation:	Professor
Educational Qualification:	M.sc,M.phil,Ph.D.
Experience:	13 years
Area of Specialization:	Crystal growth, Spectroscopy

Educational Details

S.No.	Degree	Branch/Specialization	Institute/University	Year
1	Ph.D	Physics	Anna University , Chennai	2017
2	M.Sc.,	Physics	Seetha Lakshmi Ramaswamy college / Bharathidasan University, Tricht	2000
3	B.Sc.,	Physics	Holy Cross college/ Bharathidasan University, Trichy	1998

Publication Details

International Journal

1. Sowmya,N.S, Vidyalakshmi,Y, Sampath Krishnan S, Srinivasan T, Velmurugan D
2013,Pyrrolidinium-2-carboxylate-4- nitrophenol Acta crystallographica section E,Vol.21,no.3,

pp. 691-698.

2. Santhana Krishnan,S Kumudha,Sowmya,N.S, SampathKrishnan 2012 Vibrational spectra and ab initio Studies of L-Propyl L-Isoleucine – Asian journal of chemistry , Vol. 24,No. 6 pp.2533-2536
3. Sowmya.N.S., Sampathkrishnan S, Vidhya lakhmi Y,Sudhahar, S, Mohan kumar R, 2014 ,Synthesis growth, structural, thermal and optical studies of pyrrolidinium- 2-carboxylate–4-nitrophenol crystals-Spectrochimica Acta –PART A Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy Vol No.145 (2015), pp. 333–339
4. Sowmya N.S Sampathkrishnan S. Sudhahar,S,. Chakkaravarthic G,Mohan Kumar R. 2014. Crystal structure of piperidinium paranitrophenolate Acta crystallographica section E- Research communications International union of crystallography-Vol.No. E70, pp. 559–561
5. Sowmya N.S Sampathkrishnan S. Sudhahar,S,. Krishna kumar.M G,Mohan Kumar R.2015 Synthesis, growth, structural, optical, thermal, dielectric and mechanical studies of piperidinium p-nitrophenolate single crystals,Optik Vol.No.127 pp.3024-3029.
6. Sowmya N.S Sampathkrishnan S. Sudhahar,S,. Chakkaravarthic G,Mohan Kumar R.2014 structure of 2-phenylmethyl aminium paranitrophenolate Monohydrate Acta crystallographica E- International union of crystallography Acta Cryst.). Vol.No.E70,pp. 01280
7. Sowmya N.S Sampath Krishnan S 2015 Spectroscopic studies ,Synthesis and growth of Growth of piperazine paranitrophenol spectroscopy and spectral analysis Vol.No. 35(10),pp:2958-2962
8. Sowmya N.S Sampathkrishnan S. Akilan R,. Chakkaravarthic G andMohan Kumar R. 2015 2phenyl ethnaminium 3 carboxyprop- 2enoate Actacrystallographica section E- International union of crystallography-. Vol.No.E71,pp.0641–0642
9. Sowmya N.S Studies of crystal growth, structural, spectral and optical properties of solution grown 2-phenylethylaminium p-nitrophenolate monohydrate single crystals for efficient nonlinear optical applications,2021 February 2021, Journal of Molecular structure 1225(3):129304
10. Kousalya devi,Sowmya N.S Plectranthus amboinicus leaf extract synthesized for lanthanum oxide nanoparticles and its biological application by using green synthesis, Journal of Molecular structure, 3170539/v1,July 2023.

International Conference

1. Pyrrolidinium-2-carboxylate–4- nitrophenol Acta crystallographica section E ,International conference on Molecular spectroscopy of Advanced materials and Biomolecules 7-9, August 2012 ,BishopMoore college,Mavelikara, Kerala

2. Synthesis, growth, structural, thermal and optical studies of pyrrolidinium- 2-carboxylate-4-Nitrophenol single crystals, National seminar on Recent advances in physics, 7-8, March 2014 , Presidency college, Chennai.
3. Crystal Structure of piperidinium paranitrophenolate Acta crystallographica section E Science academics on topics in theoretical physics, 10-11 March, 2014, Presidency college, Chennai.
- 4 Synthesis, growth, structural, optical, thermal, dielectric and mechanical studies of piperidinium p-Para nitrophenolate single crystals, National level seminar on Laser and photonics 5 March 2015, Saveetha Engineering College, Chennai.

Program Attended

FDP/STTP

1. 7 Days International Faculty Development Program Online FDP on “Advanced Functional materials, Energy , Environmental and sustainable ”, 26 February to 5 March 2024 , Organized by SRM TRP Engineering college , Trichy
2. 5 Days National Seminar on Online “Applications of Nanoscience and NanoTechnology “ 26 February to March 2 , 2024 organized by Center for interdisciplinary Research , Kolhapur.