

CURRICULUM VITAE OF Dr. THENNETI RAGHAVALU

Thenneti. Raghavalu
E-mail : traghavalu@yahoo.com.
Phone : +91 – 9444318938.

No. 2/3, Vanigar (Street),
K.G. Kandigai (V &P),
Tiruttani (T.K.),
Tiruvallore (D.T.),
Pin : 631 205, Tamil
Nadu.
India



Summary

Ph.D., in Physics, with Sound Technical Background and Proven Interpersonal skills. Energetic self-starter with highly effective skills in experimental analysis. Experienced in the growth and characterization of non-linear optical single crystals.

Research Skills

- In synthesis and characterization of optically active amino acids such as L-Lysine and L-Alanine complexes.
- Analysis of organic and inorganic compounds using tools such as x-ray diffraction, spectroscopic technique of FT-IR spectrum and Thermal analysis of Differential Scanning Colorimeter (DSC).

Academic Details

Ph.D. : Physics, University of Madras (Presidency College), Chennai – 600 005, India.

Title of the Thesis : Structural, Optical and Spectral Properties of Non-Linear Optical L-Lysine Complexes and L-Alanine single crystals.

Research Interests

- Studies on the synthesis, basic structural and optical properties on L-Lysine complexes and L-Alanine single crystals of its non-linear characterization for laser applications.
- Also involved in the synthesis and characterisation of high temperature ferroelectric and non-linear optical single crystals.

Sl. No.	Degree	University	Year of Passing	Subject	Percentage of Marks
1.	M.Phil.,	University of Madras.	2001-2002	Physics	By Thesis
2.	M.Sc.,	University of Madras.	1999-2001	Physics	69.29
3.	B.Sc.,	University of Madras.	1996-1999	Physics	65.73
4.	P.G. Diploma in Bio-informatics	Bharathiyar University	2002-2003	Bio-informatics	61.60

Project Details

- M.Phil., Project : Nucleation, Growth and characterization of NLO materials, P-dimethylamino-benzaldehyde and 4-(N-N-Dimethylamino)-4-Nitrobenzylidiamine.
- M.Sc., Project: Spectral analysis of C₆₀ doped poly vinyl chloride and C₆₀ doped poly ethylene.

List of Significant Publications

1. S. Gokul Raj, G. Ramesh Kumar, **Thenneti Raghavalu**, R. Mohan, R. Jayavel. "L-Histidinium tetrafluoroborate" Acta Cryst. E 62, (2006), 01178-01180.
2. S. Gokul Raj, G. Ramesh Kumar, **Thenneti Raghavalu**, P. Kumar, R. Mohan, R. Jayavel. "Structural, spectral, linear and non-linear optical properties of new non-linear, optical l-histidinium trichloroacetate crystals" Spectrochimica Acta : Part A 65 (2006) 1021 – 1024.
3. G. Ramesh Kumar, S. Gokul Raj, **Thenneti Raghavalu**, V.Mathivanan, M. Kovendhan, R. Mohan, R. Jayavel. "Effect of PH, thermal, electrical and thermo dynamical properties of non-linear optical L-threonine single crystals". Spectrochimica Acta Part A 68 (2007) 300–304.
4. **Thenneti Raghavalu**, Karunanithi Syria Kumar, Gubendiran. RameshKumar, Srinivasan. GokulRaj, and Rajagopal. Mohan. "L-lysine trichloroacetate" Acta Cryst E (2007) – Vol. 63, part A, ppl 01706-01707.
5. Ramesh Kumar G, Gokul Raj S, **Thenneti Raghavalu**, Mathivanan . V, Kovendhan .M, Bhagavannarayana G and Mohan.R. " Crystallization kinetics

and High resolution X-ray diffraction analysis on nonlinear optical L-threonine single crystals” *Materials Letters* 61 (2007) 4932–4936.

6. **Thenneti Raghavalu**, G. Ramesh Kumar, S. Gokul Raj, V. Mathivanan, R. Mohan.”Nucleation thermodynamical studies on nonlinear optical L-alanine single crystals” *Journal of Crystal Growth* 307 (2007) 112–115.

7.V.Mathivanan, **T.Raghavalu**, M. Kovendhan, S. Gokul Raj, G. Ramesh Kumar,R. Mohan, and K. Suriya Kumar,”Synthesis, growth and characterization of L-histidinium acetatedihydrate single crystals” *Cryst. Res. Technol.* 42, No. 9, 895 – 898 (2007).

8.V.Mathivanan, S. Gokul Raj ,G. Ramesh Kumar, **T. Raghavalu**, R. Mohan, K. Suriya Kumar,M.Kovendan and B. Varghese “Crystal structure and vibrational analyses of nonlinearoptical L-histidinium trifluoroacetate single crystals” *Main Group Chemistry* Vol. 5, No. 3, September 2007, 1 – 12.

9. V. Mathivanan ,**Thenneti Raghavalu** , S. Gokul Raj,G. Ramesh Kumar, R. Mohan, K. Suriya Kumar, M. Kovendhan and Babu Varghese “X-ray crystal structure and spectral analyses of nonlinear optical L-lysiniun trichloroacetate single Crystals”. *Main Group Chemistry* Vol. 00, No. 0, Month 2007, 1 – 11.

10.G. Ramesh Kumar, S. Gokul Raj, V. Mathivanan, M. Kovendhan, **Thenneti Raghavalu**, R. Mohan “Evaluation of NLO susceptibilities for L-threonine amino acid single crystals using anharmonic oscillator model” *Optical Materials* (2007) Article in press.

11.G Ramesh Kumar, S Gokul Raj, V Mathivanan, M Kovendhan,R Mohan, **Thenneti Raghavalu**, D Kanjilal, K Asokan, A Tripathi, I Sulania and Pawan K Kulriya “Swift ion irradiation effects on L-threonine amino acid single crystals” *J. Phys.: Condens. Matter* 19 (2007) 466108 (10pp).

Presentation in National / International Conferences

1. 2nd Asian Conference on Crystal growth and Crystal technology – CGCT/2, 2002 August 28-31 2002, Seoul, Korea.
2. International Conference on optics and optoelectronics – ICOL-2005, Dec. 12-15, Dehradun, Uttaranchal, XXXI Symposium of the Optical Society of India.
3. National Laser Symposium (NLS-5), Dec. 7-10, Vellore Institute Technology, Vellore.
4. 50th DAE – SSPS 2005-Symposium, Dec. 5-9, BARC, Mumbai.
5. ISMC – 2006 – Symposium, Dec. 4-8, BARC, Mumbai.

Course Attended:

- 1) Orientation course for College and University Teachers – Academic Staff College, University of Madras from 22-11-2012 to 19-12-2012 U.G.C. - Sponsored.

Personal Details

Date of Birth : 05.06.1979
Age : 33 Years
Sex : Male
Father's Name : Mr. T. Subbaiah
Nationality : Indian
Marital Status : Married

Experience

- (a) Served as a part-time Lecturer in Physics in Central Polytechnic College, Taramani, Chennai – 113, for (sep¹-02 to march-03).
- (b) Served as visiting Lecturer in the Department of Physics, Presidency College, Chennai – 5, for (July-03 to march-04).
- (c) Served as Lecturer in the Department of Physics, E.S college of engineering and technology, for one year (2007-2008).

(d) Served as Lecturer in the Department of Physics, Velammal Institute of technology, panchetti, Ponneri(T.K), for Two years (2008-2010).

Self Declaration

I assure you sir that the above information given is true to the best of my knowledge and belief. I further assure you that if you give me an opportunity, I will discharge my duties with dedication to the heartfelt satisfaction of my superiors.

(THENNETI RAGHAVALU)