

## Faculty Profile



Name : **Dr.K.SAMINATHAN**  
Designation : Assistant Professor & HOD  
Department : Department of Physics  
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### Education

**Ph.D**, Anna University/ College of Engineering Chennai, 2008.

**M.Sc**, Bharathiar University/Kongunadu Arts and Science College, 2000.

**B.Sc**, University of Madras/ Aringer Anna Arts and Science College Namakkal, 1996.

### Teaching and Research Experience

**Assistant Professor**, Anna University/University VOC College of Engineering, Thoothukudi Campus, Thoothukudi- 8, 7 Years & 5 Months.

**Guest Lecturer**, Dr.Dharmambal Govt.Polytechnic College for Women, Tharamani, Chennai, 2 Years.

**Research Fellow**, Bharathidasan University, Trichy, 1 Year.

Research Associate, Indian Institute of Technology Madras/IITM- Chennai-36, 2 Years.

**Junior Research Fellow**, All India Institute of Medical Science/AIIMS -New Delhi, 11Months.

### Research Interests / Area of Research / Achievements in research/ Projects/Collaborations

#### Area of Research :

X-ray Crystallography, Crystal Structure Determination, Data collection and Processing, Structures with disorders and twinning, Crystal Engineering and Supramolecular architectures and Powder X-ray Diffraction, Crystal Growth.

CTDT Anna University Research Projects Titled "Crystal Structure Determination and Design of Supramolecular Architectures of Acid base Amine Complexes" during Dec2012-Nov 2013 for total amount of Rs. 50,000/-.

### **Selected Publications (Journals / Books) – recent 5 publications**

P.V.Subha., P.Valarmathi., N.Srinivasan., S.Thirumaran., and **K.Saminathan** (2010), 'Effect of size metal ion on  $MS_4N_2$  chromophore: Synthesis, Spectral and Single crystal x-ray structural studies on (2-2'-bipyridine)bis(N-cyclohexyl-N-methylaldithiocarbamate) M(II) (M'=Zinc, cadmium)', Polyhedron 29 (2010) 1078-1082.

Panneerselvam Valarmathi, Narayanaswamy Srinivasan, Subbiah Thirumaran & **Kolandaivelu Saminathan** (2016), "Trans effect of triphenylphosphine on Ni-S bonds in solid state and DFT/B3LYP optimized structure: Synthesis, spectral and structural studies on (bis(2-ethylhexyl)dithiocarbamate-S,S') (thiocyanato-N) (triphenylphosphine) nickel(II)" Phosphorus, Sulfur, and Silicon, 2016 vol 191, No-8, 1183-1187.

L. Mary Novena, S. Suresh Kumar, S. Athimoolam, **K. Saminathan**, B. Sridhar (2017) "Single crystal, vibrational and computational studies of Theophylline (a bronchodilator drug) and its chloride salt", Journal of Molecular Structure 1133 (2017) 294-306.

Saminathan K., and K.Sivakumar (2007), 'Indole-picric acid (1/1)', Acta Cryst., Vol. E63, pp. o236-o238.

Saminathan K., and K.Sivakumar (2007), 'A 2:1 complex of 2-nitroaniline and picric acid', Acta Cryst., Vol. E63, pp. o354-o356.

### **Administrative Post held**

Head of the Department, Department of Physics 2010 to Till Date.

Deputy Warden in Hostel, UVOCCCE, 2009 To 2013.

Faculty incharge in Warch and Warden, UVOCCCE, 2011 to 2015.

Faculty in Charge in SSS, UVOCCCE, 2017 to Till Date.

### **Membership List**

Indian Crystallographic Association (ICA) No: LM472 Life member .