

Name :**Dr. S.Prabu**

Designation: **Teaching Fellow**

Department of Physics

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- **Research Area**: Crystal growth, Non-Linear optical crystals, Nanomaterials.

- **Educational Qualifications**:

S.No	Qualification	Specialization	Year of Pass
1	B.Sc	Physics	2004
2	M.Sc	Physics	2006
3	M.Phil	Nuclear Physics	2008
4	Ph.D	Physics	2014

- **Experience: (Years)**

Name of Company / Institutions	Designation	Year of Experience
VIT University, Vellore	Junior Research Fellow (DAE-BRNS Project)	01 year
University college of Engineering, Panruti	Research Scholar and Junior Research Fellow (DRDO Project)	03 years
University college of Engineering, Ariyalur	Teaching Fellow	10 years

- **Additional / Academic Responsibilities at Institution level:**

1. Acted as a Class in-charge in various departments (more than eight times)
2. Acted as a NSS Co-Coordinator
3. Acting as a Programme Co-Coordinator

- **List of Seminar / Short Term Course /FDP/ Workshop attended: (Within India)**

1. Attended two weeks TEQUIP II sponsored "Faculty Development Programme" Organized by Department of Chemistry, Bharathidasan institute of Technology, Trichy
2. Attended one day workshop on "Recent trends in nano scale science and Technology" Organized by Anna University of Technology, Madurai. Nov-23, 2011
3. Attended three days Seminars On "National Seminar on crystal Growth" Organized by VIT University Vellore.
4. "Workshop on nanostructured materials" Organized by Department of Nuclear Physics, University of Madras, Guindy Campus, Chennai-25, July 4-5, 2008
5. Pre-Symposium Work Shop on "Biomedical Applications of Ultrsonics/ Ultrsonics in material Research". Organized by VIT University Vellore-632014.
December 19-20, 2009
6. Eigtheeth symposium on Ultrsonics, Organized by VIT University Vellore-632014.
December 21-23, 2009
7.Annual Photonics Workshop on Nanophotonics, International School of Photonics , CUSAT, Kochi-682 022, February 27-28, 2009.
8.One day Awareness programme for Teachers on "HEURISTIC Approach in teaching" Organized by Anna University of Technology, Tiruchirappalli-620 024. march-29, 2011

- **Publications :**

a. International Journals:

1. **Prabu, S,** Nagalakshmi, R & Srinivasan, P. 2013, 'Investigations on the Physico chemical properties of 4-BromoChalcone single crystals for nonlinear optical applications', Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Vol. 103, pp. 45-52.
2. **Prabu, S**, Nagalakshmi, R., Balaji, J & Srinivasan, P. 2014, 'Synthesis, crystal growth, studies on Vibrational spectroscopy and Nonlinear optical Properties of 4-methoxy-4'-chlorochalcone', Material Research Bulletin, Vol.50, pp.446-455.

3. **Prabu, S**, Nagalakshmi, R., Balaji, J & Srinivasan, P. 2014, 'Investigations on the Vibrational modes and Non-Linear Optical properties of 4-Fluoro Chalcone crystal', Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Vol. 129, pp. 114-120.
4. Balaji, J, John Francis Xavier, J, **Prabu, S** & Srinivasan, P. 2014, 'Crystal structure of (E)-N'-(4-chlorobenzylidene)-4-methylbenzenesulfonohydrazide: a hexagonal polymorph', Acta crystal E, Vol.70, pp-.o1250-o1251
5. Balaji, J, **Prabu, S**, Srinivasan, P, Srinivasan, T & Velmurugan, D. 2015, 'Studies on the growth and characterization of a non linear optical crystal: 3 Hydroxy Pyridinium Tartrate Mono Hydrate (3HPTMH), Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Vol. 144, pp. 139-147
6. Balaji, J, **Prabu, S,** John Francis Xavier, J & Srinivasan, P. 2015, 'Crystal structure of N'-[(E)-(4-chlorophenyl) (phenyl) methylidene]-4-methylbenzenesulfonohydrazide', Acta crystal E, Vol.71, pp-.o45-o46.
8. Balaji, J, **Prabu, S** & Srinivasan, P. 2016, '(E)-N'-(4-chlorobenzylidene)-4-methylbenzenesulfonohydrazide (4CBTH) – Synthesis and characterization of organic NLO crystal', Journal of crystal growth. Vol.452, pp.189-197.
9. Balaji, J, **Prabu.S** & Srinivasan, P. 2017, 'Growth and characterisation of 2',3,4,4',5-pentamethoxychalcone (PMC) - For non linear optical application', Journal of Molecular structure. Vol.1133, pp.135-143.
10. Balaji, J, **Prabu, S,** Sajan,D & Srinivasan, P. 2017, ' Investigations on spectroscopic, dielectric and optical studies in 3-hydroxypyridinium 4-nitrobenzoate crystals', Journal of Molecular Structure. Vol.1137, pp.142-149.
11. Balaji, J, Srinivasan, P, **Prabu S**, Merin George, Sajan, D, 2020, 'Growth and dielectric studies of toluidine tartrate single crystals: A novel organic NLO material', Journal of Molecular Structure, 1207, pp.127750-127757.

➢ Conferences

1. Srinivasan, P, Nagalakshmi, R., Dmitry Isakov, Etelvina de Matos Gomes, Michael Scott Belsley & **Prabu, S.** 2012, 'Ruminations on the effect of MeV Si8+ and Ag8+ ion irradiation on nonlinear optical l-Valinium picrate single crystals', AIP Conference Proceedings, Vol.1482, pp.695-700.