LIST OF PUBLICATIONS

Patents

1. Brahadeeswaran, S, **Thirupugalmani, K**, & Shanmugam, G, 1584/CHE/2012, Rapid growth of thin and flexible organic semiconductor single crystals using modified solution technique. (Application Awaiting Examination)

2. Brahadeeswaran, S, **Thirupugalmani, K,** Venkatesh, M & Chaudhary, AK, Generation of efficient terahertz waves using solution grown N-benzyl-2-methyl-4-nitroaniline single crystals – an indigenous approach. (Applied – under review)

In peer reviewed International Journals

1. **Thirupugalmani, K**, Karthick, S, Shanmugam, G, Kannan, V, Sridhar, B, Nehru, K & Brahadeeswaran, S 2015, 'Second- and third-order nonlinear optical and quantum chemical studies on 2-amino-4-picolinium-nitrophenolate-nitrophenol: A phasematchable organic single crystal', Optical Materials, vol. 49, pp. 158-170. (Publisher: Elsevier, ISSN: 0925-3467, Impact factor: 1.981)

2. **Thirupugalmani, K**, Shanmugam, G, Kannan, V & Brahadeeswaran, S 2015, 'Rapid growth of thin and flexible organic semiconductor single crystal Anthracene by solution growth technique for device fabrication', Journal of Crystal Growth, vol. 413, pp. 67-70. (Publisher: Elsevier, ISSN: 0022-0248, Impact factor: 1.698)

3. **Thirupugalmani, K,** Karthick, S, Kannan, V & Brahadeeswaran. S, 'Synthesis, growth, thermal, mechanical and dielectric studies on 2-amino-4-picolinium-nitrophenolate-nitrophenol: An organic nonlinear optical single crystal', Thermochemica Acta (Under review) (Publisher: Elsevier ISSN: 0040-6031 Impact Factor: 1.9)

4. **Thirupugalmani, K,** Venkatesh, M. Karthick, S, Maurya, KK, Vijayan, N, Chaudhary, AK & Brahadeeswaran, S, 'Influence of Polar Solvents on the Growth of Highly Efficient Organic Single Crystal N-Benzyl 2-Methyl-4-Nitroaniline for Terahertz Generation' Crystal Growth & Design (To be communicated) (Publisher: American Chemical Society Impact Factor: 4.95)

5. Shalaby, M, Vicario, C, **Thirupugalmani, K**, Brahadeeswaran, S & Hauri, CP 2016, 'Intense THz source based on BNA organic crystal pumped at Ti: Sapphire wavelength', Optics Letters, vol. 41, Issue 8, pp. 1777-1780. (Publisher: Optical Society of America; ISSN: 0146-9592 ; Impact Factor: 3.292)

6. Rao, KS, Chaudhary, AK, Venkatesh, M, **Thirupugalmani, K** & Brahadeeswaran, S 2016, 'DAST crystal based terahertz generation and recording of time resolved photoacoustic spectra of N2O gas at 0.5 and 1.5 THz bands', Current Applied Physics, vol. 16, Issue 7, pp. 777-783. (Publisher: Elsevier; ISSN: 1567-1739; Impact factor: 2.212)

7. Kannan, V, **Thirupugalmani, K**, Shanmugam, G & Brahadeeswaran, S 2014, 'Synthesis, growth, thermal, optical, mechanical and dielectric studies of N-succinopyridine', Journal of Thermal Analysis and Calorimetry, vol.115, no. 1, pp. 731-742. (Publisher: Springer; ISSN: 1388-6150; Impact Factor: 2.042)

8. Shanmugam, G, **Thirupugalmani, K**, Kannan, V & Brahadeeswaran, S 2013, 'Spectroscopic, quantum-chemical and X-ray diffraction studies of piperidinium p-hydroxybenzoate-combined experimental and theoretical studies on a novel NLO crystal', Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, vol. 106, pp. 175-184. (Publisher: Elsevier; ISSN: 1386-1425; Impact factor: 2.129)

9. Shanmugam, G, **Thirupugalmani, K**, Rakhikrishna, R, Philip, J & Brahadeeswaran, S 2013, 'Thermophysical, mechanical and dielectric studies on piperidinium p-hydroxybenzoate', Journal of Thermal Analysis and Calorimetry, vol. 114, pp. 1245-1254. (Publisher: Springer; ISSN: 1388-6150; Impact Factor: 2.206)

10. Kannan, V, **Thirupugalmani, K** & Brahadeeswaran, S 2013, 'Studies on vibrational, NMR spectra and quantum chemical calculations of N-Succinopyridine: An organic nonlinear optical material', Journal of Molecular Structure, vol. 1049, pp. 268-279. (Publisher: Elsevier; ISSN: 0022-2860; Impact factor: 1.599)

Conference Proceeding

1. Konda, SR, Venkatesh, M, **Thirupugalmani, K**, & Brahadeeswaran, S 2014, 'Optical Parametric Amplifier Based Efficient Terahertz Generation in DAST Crystal using Optical Rectification', International Conference on Fiber Optics and Photonics, S5A. 28.