1. Growth and dielectric studies of toluidine tartrate single crystals: A novel organic NLO material, **J Balaji**, P Srinivasan, S Prabu, Merin George, D Sajan, Journal of Molecular Structure, 1207, (2020) 127750.

2. Synthesis and third order optical nonlinearity studies of toluidine tartrate single crystal supported by photophysical characterization and vibrational spectral analysis, Merin George, **J Balaji**, D Sajan, Priya Dominic, Reji Philip, G Vinitha, Journal of Photochemistry & Photobiology A: Chemistry 393, (2020) 112413.

3. A one-pot hydrothermal-induced PANI/SnO_2 and PANI/SnO_2/rGO ternary composites for high-performance chemiresistive-based H2S and NH_3 gas sensors, K.K.Saravanan, P.Sivakarthik, P.Ramnivasmirtha, **J.Balaji**, B.Rajeshkanna, Journal of Materials Science: Materials in Electronics, 31, (2020) 8825–8836.

4. Studies on growth, optical, dielectric, and third-order nonlinearity of 4-methyl N-(4-chlorobenzylidene) aniline (4CBT) crystal, P Ramnivasmirtha, **J Balaji**, X Cecily Maria Sneha, P Siva Karthik, D Gajalaskhmi, G Vinitha, Journal of Materials Science: Materials in Electronics, 31 (20), (2020) 18234-18247.

5. Design and fabrication of WSe2/CNTs hybrid network: A highly efficient and stable electrodes for dye sensitized solar cells (DSSCs), M Durairasan, PS Karthik, **J Balaji**, B Rajeshkanna, Diamond and Related Materials, 108174 (2020).

6. Growth, Spectroscopic, Hyperpolarizability and Dielectric studies on 8-HydroxyQuinolinium Benzoate (8HQB) Crystal, **J. Balaji**, P. Ramnivasmirtha, International Journal of Modern Science and Technology, Vol. 3(1), (2018) 17-26.

7. Structural, theoretical, and third-order nonlinear optical investigations of N'-[(E)-(4-bromo phenyl) (phenyl)methylidene]–4-methylbenzenesulfonohydrazide, S Rafi Ahamed, P Srinivasan, **J Balaji**, C Balakrishnan, G Vinitha, Journal of Molecular Crystals and Liquid Crystals, 665, (2018) 1,194-206.

8. Investigations on spectroscopic, dielectric and optical studies in 3-hydroxypyridinium 4-nitrobenzoate crystals, **J Balaji**, S Prabu, D Sajan, P Srinivasan, Journal of Molecular Structure 1137, (2017), 142-149.

9. Growth and Characterisation of 2′, 3, 4, 4′, 5-Pentamethoxychalcone (PMC)–For non linear optical applications', **J Balaji**, S Prabu, P Srinivasan, P, Journal of Molecular Structure 1133, (2017)135-143.

10. Structural, spectral, thermal, micro hardness, dielectric and etching studies of third order nonlinear optical material Cesium Sulfamate, SR Ahamed, P Srinivasan, **J Balaji**, SG Raj, S Mohan, Journal of Alloys and Compounds 701, (2017) 822-827.

11. Growth and characterization of organometallic NLO material: cesium hydrogen tartrate, S Rafi Ahamed, **J Balaji**, P Srinivasan, Materials Research Innovations, 22 (5), (2017), 294-301.

12. Spectroscopic and DFT-based computational studies on the molecular electronic structural characteristics and the third-order nonlinear property of an organic NLO crystal: (E)-N′-(4-chlorobenzylidene)-4-methylbenzenesulfonohydrazide, V Sasikala, D Sajan, L Joseph, **J Balaji**, S Prabu, P Srinivasan, Chemical Physics Letters 674, (2017) 11-27.

13. (E)-N′-(4-chlorobenzylidene)-4-methyl benzene sulfono hydrazide (4CBTH)–Synthesis and characterization of organic NLO crystal, **J Balaji**, S Prabu, P Srinivasan, Journal of Crystal Growth 452, (2016) 189-197.

14. Growth, Structural, Spectral and Nonlinear Optical investigations of 2,4-Dinitrochlorobenzene (DNCB) Crystals, S.Vijayakumar, P.Srinivasn, S. Dinagaran & **J. Balaji**, International Journal of Innovation and Scientific Research ISSN 2351-8014, 25, No. 2 (2016), 492-500.

15. Growth and characterization of an organic nonlinear optical crystal: 1-iodo-3-nitrobenzene (INB) ' Vijayakumar, S, Srinivasan, P, Dinagaran, S & **Balaji, J**, Journal of Advances in Chemistry, 12, no. 9, (2016) 4364-4370.

16. Growth and characterization of anthranilic acid crystals' Dinagaran**, S,** Srinivasan, P, Vijayakumar, S & **Balaji**, J, , Journal of Advances in Chemistry, Vol. 12, no. 11, (2016) 4480-4487,

17. Synthesis of Co-Doped Tin Oxide Nanoparticles for Photo Catalytic Degradation of Synthetic Organic Dyes, P.Sivakarthik, V.Thangaraj, K.Perumalraj & **J.Balaji,** Journal of Nanomaterials and Biostructures, Vol11, No.3. (2016) 935-943.