

1. Visible light photocatalytic activity of Mn-doped BiFeO<sub>3</sub> nanoparticles, Caroline Ponraj, G. Vinitha & Joseph Daniel, International Journal of Green Energy, 17:1, pages 71-83, Jan 2020. ISSN: 1543-5075, Impact Factor: 1.302
2. 'Investigation on growth, structural, dielectric, optical and third-order optical nonlinear properties of 8-hydroxyquinolinium 4-chloro-3-nitrobenzoate 4-chloro-3-nitrobenzoic acid crystal', Ahila.G, DivyaBharathi.M, Mohana.J, Vinitha.G, Anbalagan.G, Materials Research Express, Vol. 6, No. 12, pages 125114, (January 2020). ISSN: 2053-1591, Impact Factor: 1.44
3. 'Experimental and quantum chemical studies on SHG, Z-scan and optical limiting investigation of 2-amino 5-bromopyridinium-trifluoroacetate single crystal for optoelectronic applications', Saravanakumar, J. Chandrasekaran, Krishnakumar M, B Babu, Vinitha G, Mohd Anis, Journal of Physics and Chemistry of Solids, Vol. 136, page 109133 (1-10), (January 2020). ISSN: 0022-3697, Impact Factor: 2.752
4. 'Luminescence and nonlinear optical properties of Er<sup>3+</sup>-doped ZnWO<sub>4</sub> nanostructures', K Mani Rahulan, Angeline Little Flower, Padmanathan N, AnmolMahendra, Vijay Shekhawat, G Vinitha, R Annie Sujatha, Shivkumar.M.A, J. Photochemistry Photobiology A: Chemistry, Vol. 386, No., pages 112128, (January 2020). ISSN: 1522-7243, Impact Factor: 3.261
5. 'Synthesis and characterization analysis of unique organic crystal – Urea Glutaric Acid, an optimistic candidate for optical device applications', C.RathikaThayaKumari, S.Sudha, G.Vinitha, M.Nageshwari, M.Lydia Caroline, G.Mathubala, A.Manikandan, Physica B: Condensed Matter, Vol. 577, pages 411804, (January 2020). ISSN: 0921-4526. Impact Factor: 1.874
6. 'Synthesis, structural, thermal, mechanical, laser damage threshold and DFT investigations on Bis (2-methylimidazolium-4-aminobenzoate) single crystal', T.Daisy Rani, M. Rajkumar, G.Vinitha, J. Mobika, A. Chandramohan, Journal of Molecular Structure, Vol. 1200, page 127045, (January 2020). ISSN: 0022-2860. Impact Factor: 2.120
7. 'Third Order Nonlinear Optical Properties of Piperazine Calcium Chloride (PCC) Crystal to Enhance the Optical Device Applications', Mullai.R.U, Sivavishnu D, Arul Jothi R, Vinitha G, Gopinath S, Vetrivel S, Journal of Electronic Materials, Vol. 49, No. 1, pages 454-463, (January 2020). ISSN: 0361-5235, Impact Factor: 1.676
8. 'Influence of Gold Nanoparticles on Nonlinear Optical and Photoluminescence Properties of Eu<sub>2</sub>O<sub>3</sub> Doped Alkali Borate Glasses', Jagannath G Reddy, Jayanthi Kumar, Jayanthi Kumar, shwetakeshri, Venugopal Rao Soma, Balaji Sathravada, Annapurna Kalyandurg, Subrata Das, SudiptaSom, G.Vinitha, AlluAmarnath Reddy Physical Chemistry Chemical Physics, Vol. 22, No. 4, pages 2019-2032, (January 2020). ISSN: 1463-9076. Impact Factor: 3.567
9. Review on Growth and Characterization of Urea and Urea Derivative Single Crystals', A. Suresh, N. Manikandan and G. Vinitha, Brazilian Journal of Physics, volume 50, pages 192–213, (January 2020). ISSN:0103-9733, Impact Factor: 0.833

10. 'Synthesis, structural, dielectric, laser damage threshold, third order nonlinear optical and quantum chemical investigations on a novel organic crystalline material: Pyrrolidin-1-ium 2-chloro-4-nitrobenzoate 2-chloro-4-nitrobenzoic acid for opto-electronic applications' S.Karthick, K.Thirupugalmanni, M.Krishnakumar, V.Kannan, G.Vinitha, S.Brahadeeswaran, Optics and Laser Technology, Vol. 122, page 105849, (February 2020), ISSN: 0030-3992. Impact Factor: 3.319
11. 'Multiple strong hydrogen bonded supramolecularcocrystals of 18-crown-6 with 5-nitroisophthalic acid: solvent effect and optical nonlinearities', C.Balakrishnan, M.Manonmani, S.Sivaraman, R.Markkandan, S.RafiAhamed, G.Vinitha, S.P.Meenakshisundaram, R.M.Sockalingam Journal of Molecular Structure, Vol. 1201, pages 127158, (February 2020).ISSN: 0022-2860, Impact Factor: 2.120
12. 'Co-crystals of urea and hexanedioic acid with third-order nonlinear properties: An experimental and theoretical enquiry' S.Jeeva, S.Muthu, Renjith Thomas, B.R.Raajaraman, G.Mani, G.Vinitha, Journal of Molecular Structure, Vol. 1202, page 127237, (February 2020). ISSN: 0022-2860, Impact Factor: 2.120
13. 'Synthesis, structural, growth, optical, electrical, thermal and third order nonlinear optical properties of a novel organic single crystal: p -Toluidiniummalonate', S.Suresh, V.Jaisankar,G.Vinitha, R.Mohan Kumar, Journal of Molecular Structure, Vol. 1202, page 127257, (February 2020). ISSN: 0022-2860, Impact Factor: 2.120
14. 'Investigations on the structural, morphological, linear and third order nonlinear optical properties of manganese doped zinc selenide nanoparticles for optical limiting application', R.Divya, N.Manikandan, T.C.SabariGirisun, G.Vinitha, Optical Materials, Vol. 100, page 109641, (February 2020). ISSN: 0925-3467, Impact Factor: 2.687
15. 'Data on in-vitro antibacterial activity and third order NLO property of 2-Aminopyridine Copper Sulphate (2APCS)', D.Sivavishnu, R Srineevasan, J.Johnson, G.Vinitha, Chemical Data Collections, Vol. 25, No., pages 100319, (February 2020). ISSN: 2405-8300, Scopus
16. , Supramolecularcocrystals of O—HO hydrogen-bonded 18-crown-6 with isophthalic acid derivatives: Hirshfeld surface analysis and third-order nonlinear optical properties, C. Balakrishnan, M. Manonmani, S.Rafi Ahmed, G.Vinitha, S. P. Meenakshisundaram and R. M. Sockalingam ActaCrystallographica B, Vol. 76, pages 241-251, (February 2020). ISSN: 2052-5206. Impact Factor: 6.732
17. 'Synthesis, Physicochemical Properties and Third-order optical nonlinearities of Cadmium (II) Dibromide L – Proline Monohydrate for optical limiting application', Rejeena V. Rajan, Lija K. Joy, D. Sajan, A.K. Thomas, S. Sathiskumar, T. Balakrishnan, G. Vinitha, Journal of Molecular Structure, Vol. 1204, page 127457, (March 2020). ISSN: 0022-2860, Impact Factor: 2.120
18. 'Crystal structure, DFT and third order non-linear optical studies of an organic bisguanidiniumisophthalate monohydrate single crystal', Paavai Era, R. O. M. U. Jauhar, V. Viswanathan, G. Vinitha, P. Murugakoothan, Journal of Molecular Structure, Vol. 1204, pages 127476, (March 2020). ISSN: 0022-2860,Impact Factor: 2.120

19. 'CyclohexylammoniumCinnamate Single Crystal for Nonlinear Optical Applications' R. Gomathi, RamasamyGanesamoorthy, G. Vinitha, RamkiSettu, Shen Ming Chen Journal of Electronic Materials volume 49, pages 3350–3356, (March 2020). ISSN:0361-5235, Impact Factor:1.676
20. ' Investigations on solid-state parameters of third-order nonlinear optical  $\text{Ni}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$  nanoparticles synthesized by microwave-assisted combustion method, Surendran, P., Lakshmanan, A, Priya, S. Sakthy, Balakrishnan, K, Rameshkumar, P., Hegde, Tejaswi Ashok, Vinitha, G., Ramalingam, G., Raj, A. Antony, Applied Physics A, Volume 126, Issue 4, page 257, (March 2020). ISSN: 0947-8396, Impact Factor: 1.784
21. Spectral, dielectric, mechanical and optical characteristics of LPDMCl single crystal for nonlinear optical applications', M.Nageshwari, C.RathikaThayaKumari, S.Sudha, G.Vinitha, M Lydia Caroline, G. Mathubala, A.Manikandan , Physica B: Condensed Matter, Vol.582, page 411980, (April 2020). ISSN: 0921-4526, Impact Factor: 1.874
22. 'Synthesis and Third Order Optical Nonlinearity Studies of Toluidine Tartrate Single Crystal supported by Photophysical Characterization and Vibrational Spectral Analysis', Meringeorge, J Balaji, Priya Dominic, Reji Philip, Vinitha G, R Chitra, D Sajan Journal of Photochemistry and Photobiology A: Chemistry, Vol. 393, No. , pages 112413, (1-11), (April 2020). ISSN: 1010-6030,Impact Factor: 3.261
23. 'Crystal growth, dielectric studies, charge transfer and ionic hydrogen-bonding interactions of L-arginine hydrobromide monohydrate single crystal: A novel third order nonlinear optical material for optoelectronic applications', Jerin Susan John, M Saravanakumar, Lija K Joy, D.Sajan, Vinitha G, N Vijayan, Nimmy L John Optics and Laser Technology, Vol. 125, page 106043, (May 2020). ISSN: 0030-3992, Impact Factor: 3.319
24. 'Growth, spectroscopic, HOMO-LUMO energies, MEP, hardness and TG/DTA studies of acid potassium hydrogen fumarate as an efficient nonlinear optical material', S. Sudha, P. Ramesh, C. RathikaThayaKumari, P. Jayaprakash, M. Lydia Caroline, G. Vinitha, Journal of Molecular Structure, Volume 12095, page 127946, (June 2020). ISSN: 0022 2860, Impact Factor: 2.120
25. Nonlinear optical and photocatalytic dye degradation of Co doped  $\text{CeO}_2$  nanostructures synthesized through a modified combustion technique', Stephy Elizabeth George, Merin George, Javeesh Alex, Lija K. Joy, G. Vinitha, Ceramics International, Volume 46, Issue 915, pages 13932-13940, (June 2020). ISSN:02728842, Impact Factor: 3.450
26. 'Crystal growth, spectroscopic, optical, thermal and hirshfeld surface analysis of glycinium hydrogen fumarate glycine solvate monohydrate (GHFGSM): A third harmonic nonlinear optical organic crystal', P. Sangeetha, P. Jayaprakash, P. Ramesh, S. Sudha, M. Lydia Caroline G. Vinitha, Journal of Molecular Structure, Volume 12135, page 128187, (August 2020). ISSN: 0022 2860,Impact Factor: 2.120

27. 'Physicochemical properties of cesium tetroxalatedihydrate single crystal: An efficient material for nonlinear optical applications', Tejaswi Ashok Hegde, Atanu Dutta, RO. MU. Jauhar, P. Karuppasamy, G. Vinitha Optical Materials, Volume 107, page 110033, (September 2020). ISSN:0925 3467, Impact Factor: 2.687
28. . 'Growth, structural, hirshfeld surface analysis, DFT and Z-scan technique of hybrid single crystal of piperazinium perchlorate, K. Aswaniya, M. B. Jessie Raj, S. Gowri, G. Vinitha Journal of Molecular Structure, Volume 121815, page 128460, (October 2020). ISSN: 0022 2860, Impact Factor: 2.120
29. 'Photocatalytic degradation of Acid Red-85 dye by Nickel substituted Bismuth Ferrite nanoparticles', Caroline Ponraj, Vinitha G, Joseph Daniel, Materials Research Express, Vol. 6, No. 8, pages 084006 (1-26), Aug. 2019. ISSN: 2053-1591, Impact Factor: 1.449
30. 'Effect of Sr<sup>2+</sup> doping on the linear and nonlinear optical properties of ZnO nanostructures', K Mani Rahulan, Trilochan Sahoo, Angeline Austin, Phebe I Kokila, G Vinitha and Annie Sujatha , Optics and Laser Tech., Vol. 109, pages 313-318, (January 2019). ISSN: 0030-3992, Impact Factor: 3.319
31. 'Growth, structural, linear, nonlinear optical and laser induced damage threshold studies of an organic compound: 2-Amino pyridinium-4-hydroxy benzoate', S.Karthick, K.Thirupugalmani, V.Kannan, G.Shanmugam, M.Krishnakumar, G.Vinitha, B.Sridhar, S.Brahadeeswaran, Materials Letters, Vol. 235, pages 35-38, (January 2019). ISSN: 0167-577X, Impact Factor: 3.019
32. Third-order nonlinearity and Optical limiting behaviors of Yb:YAG nanoparticles by Z-scan technique', Arun Kumar Samuel, Jayaraman Senthilselvan, Vinitha G , Optics and Laser Technology, Vol. 109, pages 561-568, (January 2019). ISSN: 0030-3992.Impact Factor: 3.319
33. 'Structural, theoretical and third-order nonlinear optical investigations of N'-[(E)-(4-bromophenyl)(phenyl)methylidene]-4-ethylbenzenesulfonohydrazide' S. Rafi Ahamed, P. Srinivasan, J. Balaji, C. Balakrishnan, and G. Vinitha ,Molecular Crystals and Liquid Crystals, Vol. 665, No.1, pages 194-206, (February 2019). ISSN: 1563-5287, Impact Factor: 0.559
34. 'Synthesis, Growth, Structural and Optical Properties of a novel Organic third order nonlinear Optical Crystal: Piperazinediium trichloroacetate', P. Rekha, P. Jayaprakash, G. Rajasekar, R. Kanagadurai, G. Vinitha , R. Mohan Kumar ,Journal of Molecular Structure, Vol. 1177, pages 579-593, (February 2019). ISSN: 0022-2860, Impact Factor: 2.120
35. G. Rajasekar, M.K. Dhatchaiyini, G. Vinitha, A.Bhaskaran , 'Structural, optical, dielectric, second and third order nonlinear properties of new semiorganic crystal: Sodium (bis) boro succinate applications', Journal of Molecular Structure, Vol. 1177, pages 594-602, (February 2019). ISSN: 0022-2860.Impact Factor: 2.120
36. 'N-Methylurea Succinic acid (NMUSA): An optically non-linear organic crystal for NLO device application', A.Suresh, N.Manikandan, G.Vinitha, Materials Research Express, Vol. 6, No. 2, pages 025102 (1-13), (February 2019). ISSN: 2053-1591, Impact Factor: 1.449