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Department of Physics

PUBLICATIONS

Peer-reviewed International / National Journals (66)

1. Mohd Anis, G.G Muley, M. I Baig, **S.S. Hussaini**, M.D. Shirsat “ Doping effect of Carboxylic acids on optical, electrical, mechanical and thermal traits of KDP crystal” **Material Research Innovation** <http://dx.doi.org/10.1080/14328917.2016.1265250>.
2. Mohd Anis, **S.S. Hussaini**, M.D. Shirsat, R.N Shaikh, G.G Muley “Analysis of the x-ray diffraction, etching, luminescence, photoconductivity, thermal and dielectric properties of an ADP crystal influenced by the bimetallic additive sodium metasilicate (Na₂SiO₃)” **Mater. Res. Express** **3 (2016) 106204**.
3. Mohd Anis, M. I Baig, G.G. Muley **S.S. Hussaini**, M.D. Shirsat “Monocrystal growth, X-ray diffraction, photoluminescence, thermal and dielectric studies of cadmium thiourea acetate complex doped with L- cystine” **Journal of Optik** **127(2016) 12043-12047**.
4. Mohd Anis, **S.S. Hussaini**, M.D. Shirsat “A systematic study on electrical and physical properties of calcium bis-thiourea chloride crystal” **Journal of Optik** **127(2016) 9734-9737**.
5. N.N. Shejwal, Mohd Anis, **S.S. Hussaini**, M.D. Shirsat “Investigation on structural, UV-visible, SHG efficiency, dielectric, mechanical and thermal behavior of L-Cystine doped zinc thiourea sulphate crystal for optoelectronics device applications” **International Journal of Modern Physics B** **30 (2016) 1650169--170**
6. Mohd Anis, S.M. Azhar, **S.S. Hussaini**, S. Kalainathan, M.D. Shirsat, G. Rabbani “Dielectric, etching and Z-scan studies of glycine doped potassium thiourea chloride crystal” **Journal of Materials Science-Poland** **2016 (Accepted)**
7. S.M. Azhar, Mohd Anis, **S.S. Hussaini**, S. Kalainathan, M.D. Shirsat, G. Rabbani “Doping effect of L-cystine on structural, UV-visible, SHG efficiency, third order nonlinear optical, laser damage threshold and surface properties of cadmium thiourea acetate single crystal”

Journal of Optics and Laser Technology Journal of Optics & Laser Technology, Vol 87, (2017) PP 11-16.

8. Mohd Anis , **S.S. Hussaini** , M.D. Shirsat , G.G. Muley “Investigation on nonlinear optical and dielectric properties of L-arginine doped ZTC crystal to explore photonic device applications” **Journal of Materials Science-Poland 34(3), 2016, pp. 548-554 DOI: 10.1515/msp-2016-0070**
9. N.N. Sejwal, Mohd Anis, **S S Hussaini**, M.D. Shirsat “Ab-initio UV-visible, SHG efficiency, photoluminescence, dielectric, thermal and mechanical studies of pure and L-glutamine incorporated ZTS crystal for optoelectronics device applications” **Journal of Optik 127(2016) 6525-653.**
10. S.M. Azhar, Mohd Anis, **S.S. Hussaini**, M.D. Shirsat, G. Rabbani “Comparative characterization study of pure and glycine doped potassium thiourea chloride Crystal for Laser Frequency Conversion Application” **Journal of Optik 127(2016) 4932–4936.**
11. Mohd Anis, **S.S. Hussaini**, A. Hakeem, M.D. Shirsat, G.G. Muley “Synthesis, growth and optical studies of novel organometallic NLO crystal: calcium bis-thiourea chloride” **Journal of Optik 127(2016) 2137-2142.**
12. Mohd Anis, M.D. Shirsat, **S.S. Hussaini**, B. Joshi G.G. Muley “Effect of Sodium Meta silicate on Structural, Optical, Dielectric and Mechanical Properties of ADP Crystal” **Journal of Materials Science & Technology 32 (1) (2016) 62-67.**
13. Mohd Anis, S.M. Azher, **S S Hussaini**, M.D. Shirsat, G. G. Muley And G. Rabbani “Comparative surface etching study of pure and glycine doped potassium thiourea chloride crystal” **Journal of Medicinal Chemistry and Drug Discovery 2(1) (2016) 68-71.**
14. R.N. Shaikh, Mohd. Anis, M. D. Shirsat, **S. S. Hussaini** “Investigation on fluorescence, third order nonlinear optical and mechanical performance of glycine doped ADP crystal for applications of photonic devices” **Journal of Materials Technology: Advanced Performance Materials**, (2015). DOI 10.1179/1753555715Y.0000000039. ISSN: 1753-5557
15. R N Shaikh, Mohd Anis, G. Rabbani, M D Shirsat and **S S Hussaini** “Studies on optical, thermal, mechanical and dielectric properties of L-Cysteine doped KDP crystal to explore NLO device applications” **Journal of optoelectronics and Advanced Materials, Vol.10-Issue 7-8 (2016) PP 526-531.**

16. Y.B. Rasal, R.N. Shaikh, Mohd. Anis, M. D. Shirsat, **S. S. Hussaini** “Effect of Potassium Thiourea Chloride on Structural and Optical properties of Potassium Dihydrogen phosphate crystal” **Journal of Bionano Frontier**, **8 (3)**, (2015) **165-167**. ISSN: 2320-9593.
17. Mohd. Anis, M. D. Shirsat, **S. S. Hussaini**, G. Rabbani, G.G. Muley “Linear Optical Study of ADP and KDP doped Thiourea single crystal” **Journal of Bionano Frontier**, **8 (3)**, (2015) **81-83**.
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19. Mohd Anis, G.G. Muley, A. Hakeem, M.D. Shirsat, **S.S. Hussaini** “Exploring the influence of carboxylic acids on nonlinear optical (NLO) and dielectric properties of KDP crystal for applications of NLO facilitated photonic devices” **Optical Materials**, **46** (2015) **517-521**.
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21. Mohd Anis, G.G. Muley, M.D. Shirsat, **S.S. Hussaini** “Single crystal growth, structural, optical, mechanical, dielectric and thermal studies of Formic Acid doped KDP crystal for NLO Applications” **Crystal Research and Technology**, **50**, (2015) **372-378**.
22. M. Anis, G.G. Muley, G. Rabbani, M.D. Shirsat, **S.S. Hussaini** “Growth, linear–non-linear optical, fluorescence, thermal and electrical studies of glycine-doped bis-thiourea cadmium formate crystal for electro-optic device applications” **Materials Research Innovations**, (2015) **doi:10.1179/1433075X15Y.0000000002**.
23. M. Anis, G.G. Muley, G. Rabbani, M.D. Shirsat, **S.S. Hussaini** “Optical, photoconductivity, dielectric and thermal studies of L-arginine doped zinc thiourea chloride crystal for photonics applications” **Materials Technology: Advanced performance materials**, **Vol 30**, (2014) **129-133**.
24. R.N. Shaikh, M.D. Shirsat, P.M. Koinker, **S.S. Hussaini** “Effect of L-cysteine on optical, thermal and mechanical properties of ADP crystal for NLO application” **Journal of Optics and Laser Technology**, **Vol 69**, (2015) **8-12**.

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29. N.N. Shejwal, Mohd Anis, **S.S. Hussaini**, M.D. Shirsat "Studies on thermal, optical, dielectric and non linear properties of L-lysine doped zinc thiourea sulphate (ZTS) metal complexes crystals" **Journal of Advances in Applied Sciences and Technology, Special issue of material science, Vol 1, (2014), 282-288.**
30. N.N. Shejwal, Mohd Anis, **S S Hussaini** and M D Shirsat "Optical, thermal and electrical properties of pure and doped bis-thiourea cadmium formate (BTCF) crystal." **Journal of Physica Scripta, Vol 89, (2014)125804, PP 1-7.**
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32. Mohd.Anis, M.D.Shirsat, Gajanan Mule, **S.S. Hussaini** "Influence of formic acid on electrical, linear and nonlinear optical properties of potassium dihydrogen phosphate (KDP) crystals." **Journal of Physica B: Condensed matter, Vol 449, (2014) PP 61-66.**
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35. R.B. Kulkarni, Arti Rushi, Mohd Anis, Yogesh Rasal, **S. S. Hussaini** and M. D. Shirsat “Comparative study on Structural, Optical, Dielectric and Thermal Properties of pur and Alanine doped Thiourea Cadmium Acetate Crystal ”, **International Journal of Scientific and Research Publication, Vol 4, Issue 7, July(2014) PP 01-05.**
36. Mohd.Anis, R.N.Shaikh, M.D.Shirsat, **S.S.Hussaini** “Investigation of optical and electrical properties of L-Cystein doped zinc thiourea chloride (ZTC) crystal for nonlinear optical (NLO) applications”, **Journal of Optics & Laser Technology, Vol 60, (2014) PP 67-129.**
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41. Santosh Kadam, **S.S. Hussaini**, Kunnal Datta, Prasanta Ghosh, and Mahendra D. Shirsat, “Effect of Poly (Toluene Sulphonic Acid) in enhancing durability of Poly (Pyrrole)/Poly (N-Methylpyrrole)/GOx Composite Glucose biosensor”, **International journal of material Science, Vol 2, No 01 (2012).**

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43. **S.S.Hussaini**, N.R.Dhumane, and Mahendra D. Shirsat “Growth and Characterization of Bisglycine hydrogen bromide (BGHB) single crystal: New nonlinear optical material”, **Recent Research in Science and Technology, Vol 4, No 02(2011).**
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