

Name of Faculty: Dr. Hussaini Syed Shaukatullah Syed Azmatullah

Department: Physics

PUBLICATIONS

I. Research Papers Published in the Peer-reviewed International / National Journals notified on UGC website (101)

Sr. No.	Title of paper	Name of the author/s	Name of journal	Year of publication	ISBN / ISSN number	Link of the recognition in UGC enlistment of the Journal	Impact factor
1.	Exploring impact of Zn ²⁺ on laser induced optical and electrical traits of KH ₂ PO ₄ crystal for NLO device applications	Irshad Baig, Abdul Anees, M.D. Shirsat and S S Hussaini	International Journal of Light and electron optics	2020	0030-4026		2.187
2.	Comparative analysis of pristine and Cd ²⁺ influenced potassium hydrogen phthalate single crystal for photonic device applications	M I Baig, Mohd Anis, H. Algarni, M. D. Shirsat, S S Hussaini	International Journal of Light and electron optics	2020	0030-4026		2.187
3.	Exploring the impressive nonlinear Optical and	Rupali B. Kulkarni, S. S. Hussaini and	Material Today Proceeding	2020	2214-7853		0.69

	dielectric Properties of cadmium thiourea acetate crystal doped with oxalic acid	Mahendra D. Shirsat					
4.	Integrity in Linear and Nonlinear Optical Properties of L-Tyrosine Doped Bis-thiourea Cadmium Acetate Single Crystal	Siddique Aneesa Fatema, Y.B. Rasal, R.N. Shaikh, M.D. Shirsat, S.S Hussaini	Journal of Ferroelectrics	2020	0015-0193		0.8
5.	Evaluation of Optical Traits of Urea doped Thiourea Zinc Sulphate (U- ZTS) Metal Complex crystal for NLO Applications	Siddique Aneesa Fatema, Rupali B. Kulkarni, S. S. Hussaini* , Mahendra D. Shirsat	IOSR Journal Of Applied Physics	2020	2278-4861		3.16
6.	Focusing Growth and Characterization Studies of Potassium Chloride (KCL) Doped Bis-Thiourea Cadmium Acetate (BTCA) Single Crystals	Siddique Aneesa Fatema, Rupali B. Kulkarni, R.N.Shaikh, Mahendra D. Shirsat, S.S Hussaini	Research Journey,	2020	2348-7143		6.62
7.	“ Studies on linear Optical Properties of Potassium	Siddique Aneesa Fatema, R.N. Shaikh,	Our Heritage	2020.	0474-9030		2.21

	Chloride Doped Bis Thiourea Cadmium Acetate Crystals	R.B Kulkarni, Mahendra D.Shirsat , S. S. Hussaini					
8.	Customizing optical and dielectric traits of ammonium dihydrogen phosphate (ADP) crystal exploiting Zn ²⁺ ion for photonic device applications	M I Baig ,Mohd Anis, H. Algarni, M. D. Shirsat, S S Hussaini ,	Chinese Journal of Physics	2020	0577-9073		2.63
9.	Growth of NH ₄ H ₂ PO ₄ crystal in urea environment to optimize linear-nonlinear optical traits for photonic device applications	S.M Azher, Mohd Anis, G. Rabbani, M.D. Shirsat, M.I. Baig, S.S. Hussaini , S. AlFaify, Mohammed Ajmal Khan	Journal of Optik	2019	0030-4026		2.187
10.	Optical Properties Of L-Threonine Zinc Acetate NLO Crystal	R.N. Shaikh Y.B. Rasal, M. D. Shirsat, S.S. Hussaini	RESEARCH JOURNEY International Multidisciplinary E-Research Journal	2019	2348-7143		6.62
11.	Study Of Bis Thiourea Zinc Sulphate Doped Potassium	Y.B. Rasal, R.N. Shaikh, R. B. Kulkarni,	RESEARCH JOURNEY	2019	2348-7143		6.62

	Dihydrogen Phosphate Crystal	M. D. Shirsat , S.S. Hussaini	International Multidisciplinary E-Research Journal				
12.	Thiourea Metal Complex crystal for AR coating in solar thermal devices	Rupali B. Kulkarni, Yogesh B. Rasal, Siddique Aneesa Fatima, S. S. Hussaini and Mahendra D. Shirsat	RESEARCH JOURNEY International Multidisciplinary E-Research Journal	2019	2348 - 7143		6.62
13.	Studies On Linear Optical Properties of ADP-KDP Mixed Crystal For Electro-Optic Applications	R. N. Shaikh, Y. B. Rasal, M. D. Shirsat, S. Hussaini	International Journal of Engineering Technology Science and Research	2019	2394 - 7780		7.36
14.	Enhancement in optical Properties of Nickel Thiourea nitrate Doping in Potassium Dihydrogen Phosphate(KDP)	Y. B. Rasal, R. N. Shaikh, M. D. Shirsat, S. S. Hussaini	International Journal of Advance and Innovative Research	2019	2394-7780		7.36
15.	Magnificent Transmutation In Optical Traits Due To	Siddique Aneesa Fatima, Rupali B.	Journal of Advance and Innovative	2019	2394-7780		7.36

	Methionine Doping On Zinc Thiourea Sulphate (ZTS) Metal Complex Crystal	Kulkarni, Mahendra D. Shirsat and S. S. Hussaini	Research				
16.	Focusing Superiority Of S-R Method Grown Crystal Over Conventionally Grown Thiourea Zinc Acetate (TZA) Metal Complex Crystal	Rupali B. Kulkarni, Siddique Aneesa Fatima, S. S. Hussaini and Mahendra D. Shirsat	Journal of Advance and Innovative Research	2019	2394-7780		7.36
17.	Electrochemical Impedance Spectroscopic Study Of Dye Sensitized Solar Cell With Al Doped TIO ₂ Nanoparticles Photo Anode Sensitized By Eosin Y Dye	Swati S. Kulkarni, Gajanan A. Bodkhe, Nikesh Ingle, S. S. Hussaini , N. N. Shejwal and Mahendra D. Shirsat	Journal of Advance and Innovative Research,	2019	B 2394-7780		7.36
18.	Microwave Assisted Synthesis of Aluminum Doped Titanium Dioxide Nanoparticles for Photovoltaic Applications	Swati S. Kulkarni, Gajanan A. Bodkhe, Sumedh M. Shirsat, S. S. Hussaini , N N Shejwal and Mahendra D. Shirsat	International Journal of Engineering Technology Science and Research	2018	2394- 3386		2.12
19.	Single crystal growth and	N.N. Shejwal , S.S.	International	2018	2394- 3386		2.12

	nonlinear optical analysis of L-glutamine doped ZTS crystal for photonic applications	Hussaini , Y. B. Rasal , M.D. Shirsat	Journal of Engineering Technology Science and Research,				
20.	Natural Hibiscus Dye And Synthetic Organic Eosin Y Dye Sensitized Solar Cells Using Titanium Dioxide Nanoparticles Photo Anode: Comparative Study	Swati S. Kulkarni, S. S. Hussaini , Gajanan Bodkhe, M.D. Shirsat	Surface Review & Letters	2018	1793-6667		0.835
21.	Uncovering the influence of Ni ²⁺ on optical and dielectric properties of NH ₄ H ₂ PO ₄ (ADP) crystal	Mohd Anis, S S Hussaini , Mohd Shkir, S. Alfaify M I Baig, G. G. Muley	Journal of Optik	2018	0030-4026		2.187
22.	Transfiguring structural, optical and dielectric properties of Cadmium thiourea acetate crystal by the addition of L-threonine for laser assisted device applications	Rupali B. Kulkarni,, Mohd Anis, S. S. Hussaini and Mahendra D. Shirsat	Mater. Res. Express	2018	015016		1.929

23.	Investigation on thiourea crystal grown in presence of ammonium acetate	Yogesh B Rasal, M D Shirsat & S S Hussaini	Indian Journal of Pure & Applied Physics	2018,	0975-1041: 0019-5596		0.521
24.	Linear and nonlinear optical analysis on semi organic L-proline cadmium chloride single crystal	Mohd Anis, M I Baig, S S Hussaini , M D Shirsat, Mohd Shkir, and H A Ghramh	Chin. Phys. B	2018	1674-1056-		1.630
25.	Dye Sensitized Solar Cell based on Environmental Friendly Eosin Y Dye and Al doped Titanium Dioxide Nano particles	Swati S. Kulkarni, Gajanan A. Bodkhe, Sumedh M. Shirsat, S. S. Hussaini , N N Shejwal and Mahendra D. Shirsat	Mater. Res. Express	2018	2053-1591		1.929
26.	Luminescence, laser induced nonlinear optical and surface microscopic studies of potassium thiourea chloride crystal	M. Azher, G. Rabbani, , M. D. Shirsat, S. S. Hussaini , M.I. Baig, H.A. Ghramh, Mohd Anis	Journal of Optik	2018	0030-4026		2.187
27.	The Investigation of Potassium tetra thiourea chloride on linear –nonlinear optical, electrical and	Y.B. Rasal, R.N. Shaikh, M.D. Shirsat, S. Kalainathan and S S Hussaini	Ferroelectrics	2017	0015-0193		0.669

	mechanical properties of KDP crystal for NLO applications						
28.	Growth and optical studies of tris (thiourea) potassium barium sulphate crystal: a novel semiorganic NLO bimetallic crystal	S.M. Azher, S. S. Hussaini, M. D. Shirsat, G. Rabbani, Mohd Shkir, , S. Alfaify, H. A. Ghramh, M. I. Baig and Mohd Anis	Materials Research Innovations,	2019	1432-8917		0.833
29.	Systematic analysis on linear and laser induced nonlinear optical traits of citrulline doped NH ₄ H ₂ PO ₄ (ADP) crystal	R.N. Shaikh, M. Anis, M. D. Shirsat, S. S. Hussaini	Journal of Optik	2018	0030-4026		2.187
30.	Studies on the structural, thermal, fluorescence and linear–non-linear optical properties of glycine sodium acetate single crystal for electro-optic device applications	N.N. Shejwal, S.S. Hussaini , Kamble R, Mohd Anis, M.D. Shirsat	Springer Proceedings in Physics	2017			

31.	Bulk Growth and analysis on luminescence, third order nonlinear optical, laser damage threshold, dielectric and thermal properties of KDP crystal doped with BTZC complex	Y. B. Rasal, M. Anis, M. D. Shirsat, S. S. Hussaini	Materials Research Innovations,	2018	1432-8917		0.833
32.	Growth, structural, UV–visible, SHG, mechanical and dielectric studies of bis-thiourea zinc chloride doped KDP crystal for NLO device applications	Y. B. Rasal, M. Anis, M. D. Shirsat, S. S. Hussaini	Materials Research Innovations,	2017	1432-8917		0.833
33.	Doping effect of Carboxylic acids on optical, electrical, mechanical and thermal traits of KDP crystal	Mohd Anis, G.G Muley, M. I Baig, S.S. Hussaini , M.D. Shirsat	Material Research Innovation,	2017	1432-8917		0.833
34.	Growth, SHG and Z-Scan Studies of Pure and L-Cystein doped Zinc Thiourea Sulphate crystal for Photonic Device Applications	Shejwal N N, Hussaini S S Shirsat M.D	Int. Res. J Of Science and Engineering	2018	322-0015		4.11

35.	Bulk growth of organic non-linear optical (NLO) L-arginine 4-nitrophenolate 4-nitrophenol dihydrate (LAPP) single crystals by Sankaranarayanan–Ramasamy (SR) method	V. Sivasubramani, Mohd Anis, S. S. Hussaini , G. G. Muley, M. Senthil Pandian and P. Ramasamy	Material Research Innovation	2017	1432-8917		0.833
36.	Influence of bis thiourea nickel nitrate on the structural, optical, electrical, thermal and mechanical behavior of KDP single crystal for NLO applications	Y B Rasal, R N Shaikh, M.D. Shirsat, S Kalainathan, S.S. Hussaini ,	Mater. Res. Express 4	2017	2053-1591		1.929
37.	Analysis of the x-ray diffraction, etching, luminescence, photoconductivity, thermal and dielectric properties of an ADP crystal influenced by the bimetallic additive sodium metasilicate (Na ₂ SiO ₃)	Mohd Anis, S.S. Hussaini , M.D. Shirsat, R.N Shaikh, G.G Muley	Mater. Res. Express	2016	2053-1591		1.929

38.	Monocrystal growth, X-ray diffraction, photoluminescence, thermal and dielectric studies of cadmium thiourea acetate complex doped with l-Cysteine	Mohd Anis, M. I Baig, G.G. Muley S.S. Hussaini , M.D. Shirsat	Journal of Optik	2016	2053-1591		1.929
39.	A systematic study on electrical and physical properties of calcium bis-thiourea chloride crystal	Mohd Anis, S.S. Hussaini , M.D. Shirsat	Journal of Optik 127	2016	2053-1591		1.929
40.	Investigation on structural, UV-visible, SHG efficiency, dielectric, mechanical and thermal behavior of L-Cystine doped zinc thiourea sulphate crystal for optoelectronics device applications	N.N. Shejwal, Mohd Anis, S.S. Hussaini , M.D. Shirsat	International Journal of Modern Physics B 30	2016	0217-9792		0.79
41.	Dielectric, etching and Z-scan studies of Glycine doped potassium thiourea	Mohd Anis, S.M. Azhar, S.S. Hussaini , S. Kalainathan, M.D.	Journal of Materials Science-Poland34-4	2016	2083-1331		0.533

	chloride crystal	Shirsat, G. Rabbani					
42.	effect of L-Cysteine on structural, UV-visible, SHG efficiency, third order nonlinear optical, laser damage threshold and surface properties of cadmium thiourea acetate single crystal	S.M. Azhar, Mohd Anis, S.S. Hussaini , S. Kalainathan, M.D. Shirsat, G. Rabbani	Journal of Optics & Laser Technology,	2017	0030-3992		3.23
43.	Investigation on nonlinear optical and dielectric properties of L-arginine doped ZTC crystal to explore photonic device applications	Mohd Anis , S.S. Hussaini , M.D. Shirsat , G.G. Muley	Journal of Materials Science-Poland	2016	2083-1331		0.533
44.	Ab-initio UV-visible, SHG efficiency, photoluminescence, dielectric, thermal and mechanical studies of pure and L-glutamine incorporated ZTS crystal for optoelectronics device	N.N. Sejwal, Mohd Anis, S S Hussaini , M.D. Shirsat	Journal of Optik	(2016)	2053-1591		1.929

	applications						
45.	Studies on optical, thermal, mechanical and dielectric properties of L-Cysteine doped KDP crystal to explore NLO device applications	R N Shaikh, Mohd Anis, G. Rabbani, M D Shirsat and S S Hussaini	Journal of optoelectronics and Advanced Materials,	2016	1842-6573		0.5
46.	Comparative characterization study of pure and glycine doped potassium thiourea chloride Crystal for Laser Frequency Conversion Application	S.M. Azhar, Mohd Anis, S.S. Hussaini , M.D. Shirsat, G. Rabbani	Journal of Optik 127	(2016)	2053-1591		1.929
47.	Synthesis, growth and optical studies of novel organometallic NLO crystal: calcium bis-thiourea chloride	Mohd Anis, S.S. Hussaini , A. Hakeem, M.D. Shirsat, G.G. Muley	Journal of Optik 127	2016	2053-1591		1.929
48.	Evaluate the effect of L-valine on linear-nonlinear optical and electrical properties of BTCA crystal to identify photonic device	Anis M, Hussaini S S , Shirsat M D, Muley Gajanan	Materials Research Innovations	2016	1432-8917		0.833

	applications						
49.	Effect of Sodium Meta silicate on Structural, Optical, Dielectric and Mechanical Properties of ADP Crystal	Mohd Anis, M.D. Shirsat, S.S. Hussaini , B. Joshi G.G. Muley	Journal of Materials Science & Technology	2016	1005-0302		2.51
50.	Comparative surface etching study of pure and glycine doped potassium thiourea chloride crystal	Mohd Anis, S.M. Azher, S S Hussaini , M.D. Shirsat, G. G. Muley And G. Rabbani	Journal of Medicinal Chemistry and Drug Discovery	2016	2347-9027		0.5
51.	Investigation on fluorescence, third order nonlinear optical and mechanical performance of glycine doped ADP crystal for applications of photonic devices	R.N. Shaikh, Mohd. Anis, M. D. Shirsat, S. S. Hussaini	Journal of Materials Technology: Advanced Performance Materials	2015	1753-5557.		0.449
52.	Effect of Potassium Thiourea Chloride on Structural and Optical properties of Potassium Dihydrogen phosphate crystal	Y.B. Rasal, R.N. Shaikh, Mohd. Anis, M. D. Shirsat, S. S. Hussaini	Journal of Bionano Frontier,	2015	2320-9593.		1.76

53.	Linear Optical Study of ADP and KDP doped Thiourea single crystal	Mohd. Anis, M. D. Shirsat, S. S. Hussaini , G. Rabbani, G.G. Muley	Journal of Bionano Frontier,	2015	2320-9593.		1.76
54.	Influence of L-Leucine on Structural, Thermal, Fluorescence and Non linear optical properties of zinc thiourea sulphate single crystal	N.N Shejwal, R.B. Kulkarni, , S. S. Hussaini , M. D. Shirsat	Journal of Bionano Frontier,	2015	2320-9593.		1.76
55.	Exploring the influence of carboxylic acids on nonlinear optical (NLO) and dielectric properties of KDP crystal for applications of NLO facilitated photonic devices	Mohd Anis, G.G. Muley, A. Hakeem, M.D. Shirsat, S.S. Hussaini	Optical Materials,	2015	0925-3467		2.779
56.	Single crystal growth, structural, optical, mechanical, dielectric and thermal studies of Formic Acid doped KDP crystal for NLO Applications	Mohd Anis, G.G. Muley, M.D. Shirsat, S.S. Hussaini	Crystal Research and Technology,	2015	1521-4079		0.83

57.	Growth, linear–non-linear optical, fluorescence, thermal and electrical studies of glycine-doped bis-thiourea cadmium formate crystal for electro-optic device applications	M. Anis, G.G. Muley, G. Rabbani, M.D. Shirsat, S.S. Hussaini	Materials Research Innovations,	2015	1432-8917		0.833
58.	Optical, photoconductivity, dielectric and thermal studies of L-arginine doped zinc thiourea chloride crystal for photonics applications	M. Anis, G.G. Muley, G. Rabbani, M.D. Shirsat, S.S. Hussaini	Materials Technology: Advanced performance materials,	2014	1753-5557.		0.449
59.	Effect of L-cysteine on optical, thermal and mechanical properties of ADP crystal for NLO application	R.N. Shaikh, M.D. Shirsat, P.M. Koinker, S.S. Hussaini	Journal of Optics and Laser Technology,	2015	0030-3992		3.23
60.	Study on optical properties of L-valine doped ADP crystal	R.N.Shaikh, Mohd. Anis, M.D. Shirsat, S.S. Hussaini	Journal of Spectrochemica Acta Part A: Molecular and Bimolecuar	2014	1386-1425		3.232

			Spectroscopy,				
61.	Studies on linear optical properties of glycine doped DSHP crystals	R.N. Shaikh, Mohd Anis, M.D. Shirsat, S.S. Hussaini	Journal of Advances in Applied Sciences and Technology, Special issue of material science,	2014	2393-8188		--
62.	Linear Optical Properties of L-Alanine Added Cadmium Thiourea Acetate (CTA) Crystals	R.B. Kulkarni, Mohd Anis, S.S. Hussaini , M.D. Shirsat	Journal of Advances in Applied Sciences and Technology, Special issue of material science,	2014	2393-8188		
63.	Effect of bis-thiourea zinc chloride on optical properties of KDP crystals	Yogesh Rasal, Mohd Anis, N.N. Shejwal, Mohammad Azher, M.D. Shirsat, S.S. Hussaini	Journal of Advances in Applied Sciences and Technology, Special issue of material science	2014	2393-8188		
64.	Studies on thermal, optical, dielectric and non linear properties of L-lysine doped	N.N. Shejwal, Mohd Anis, S.S. Hussaini , M.D. Shirsat	Journal of Advances in Applied Sciences	2014	2393-8188		

	zinc thiourea sulphate (ZTS) metal complexes crystals		and Technology, Special issue of material science				
65.	Optical, thermal and electrical properties of pure and doped bis-thiourea cadmium formate (BTCF) crystal	N.N. Shejwal, Mohd Anis, S S Hussaini and M D Shirsat	Journal of Physica Scripta	2014	1402-4896		1.985
66.	A study on Optical, dielectric and NLO Properties of L- alanine added ammonium dihydrogen phosphate single crystal	R.N.Shaikh, Mohd. Anis, M.D.Shirsat, S.S.Hussaini	Journal of optoelectronics and Advanced Materials	2014	1842-6573		0.449
67.	Influence of formic acid on electrical, linear and nonlinear optical properties of potassium dihydrogen phosphate (KDP) crystals.	Mohd. Anis, M.D.Shirsat, Gajanan Mule, S.S. Hussaini	Journal of Physica B: Condensed matter,	2014	0921-4526		1.902
68.	Spectral and Optical Studies OF L-Histidine (LH) Doped Malic Acid Crystal	R.N.Shaikh, M.D.Shirsat, S.S. Hussaini , R. Machale	Journal of Advances in Applied Sciences and Technology	2014	2393-8188		

69.	UV-Visible Study and Determination of Optical Constant of L-arginine Maelate Crystal	R.N.Shaikh, Mohd.Anis, M.D.Shirsat, S.S.Hussaini	Journal of Advances in Applied Sciences and Technology	2014	2393-8188		
70.	Comparative study on Structural, Optical, Dielectric and Thermal Properties of pure and Alanine doped Thiourea Cadmium Acetate Crystal	R.B. Kulkarni, Arti Rushi, Mohd Anis, Yogesh Rasal, S. S. Hussaini and M. D. Shirsat	International Journal of Scientific and Research Publication,	2014	2250-3153		0.5
71.	Investigation of optical and electrical properties of L-Cysteine doped zinc thiourea chloride (ZTC) crystal for nonlinear optical (NLO) applications	Mohd.Anis, R.N.Shaikh, M.D.Shirsat, S.S.Hussaini	Journal of Optics & Laser Technology,	2014	0030-3992		3.32
72.	Optical Studies of Amino acids doped Ammonium Dihydrogen Phosphate (ADP) crystals for NLO Applications	R.N.Shaikh, S.R. Mitkar, Mohd Anis, Mahendra D.Shirsat and S.S.Hussaini	International Journal of Chem Tech Research,	2014	2455- 9555		0.5
73.	Growth, structural & optical	R. B. Kulkarni, Mohd	International	2014	2455- 9555		0.5

	Studies of Potassium dihydrogen phosphate (KDP) doped cadmium thiourea acetate (CTA) metal complex crystal	Anis, Yogesh Rasal , S. S. Hussaini and Mahendra D. Shirsat	Journal of Chem Tech Research,				
74.	Growth, Optical and Dielectric study of pure and Glycine doped Ammonium dihydrogen NLO Crystal: Potential Material for Optoelectronics Applications	R.N.Shaikh, Mohd.Anis, A.B. Ghambhire, M.D.Shirsat, S.S.Hussaini	Journal of Material research Express,	2014			1.929
75.	Investigation on the Linear and Nonlinear Optical Properties of L-Lysine Doped Ammonium Dihydrogen Phosphate Crystal for NLO Applications	R.N.Shaikh, Mohd. Anis, M.D.Shirsat, S.S.Hussaini	IOSR Journal of Applied Physics (IOSR-JAP),	2014	2278-4861		3.16
76.	Effect of Poly (Toluene Sulphonic Acid) in enhancing durability of Poly (Pyrrole)/Poly (N-	Santosh Kadam, S.S. Hussaini , Kunnal Datta, Prasanta Ghosh, and Mahendra D.	International journal of material Science,	2012	0973-4589		0.31

	Methylpyrrole)/GOx Composite Glucose biosensor	Shirsat					
77.	A Review on Electrochemical Biosensors: Principles and Applications	Mohammad Asef Iqbal, S.G. Gupta and Hussaini S.S	Advances in Bioresearch,	2012	0976-4585		0.36.
78.	Growth and Characterization of Bisglycine hydrogen bromide (BGHB) single crystal: New nonlinear optical material	S.S.Hussaini , N.R.Dhumane, and Mahendra D. Shirsat	Recent Research in Science and Technology	2011	2076-5061		----
79.	Effect of L-Alanine on the Optical Properties of Zinc (Tris) Thiourea Sulfate (ZTS) Single Crystal	N.R. Dhumane, S.S. Hussaini , Kunal Datta, Prasanta Ghosh and Mahendra D. Shirsat	Recent Research in Science and Technology	2010	2076-5061		
80.	Growth and characterization of nonlinear optical Crystal Bis thiourea cadmium chloride (BTCC) in presence of L-Alanine	N. R. Dhumane, S.S. Hussaini , Kunal Datta, Prasanta Ghosh, and Mahendra D. Shirsat	J. Pure Appl. & Ind. Phys.	2010			0.653
81.	Growth and Characterization of Tri-Glycine Acetate	S.S. Hussaini , N.R. Dhumane, Kunal Datta,	Bionano Frontier	2010	2320-9593.		1.76

	(TGAc) non-linear optical crystal	P. Ghosh and Mahendra D. Shirsat,					
82.	Growth and characterization of glycine doped bis thiourea cadmium chloride single crystal	N.R. Dhumane, S.S. Hussaini , V.G. Dongre, P.P. Karmuse and M.D. Shirsat	Crystal Research Technology	2009	1521-4079		1.5
83.	Growth and Characterization of L-Alanine doped Zinc Thiourea Chloride single crystal (ZTC)	N.R. Dhumane, S.S. Hussaini , V.G. Dongre, P. Ghugare and M.D. Shirsat	Applied Physics: A	2009	0947-8396		1.784
84.	Growth and characterization of L-Tartaric acid doped and mixed Di-sodium hydrogen phosphate (DSHP) Single crystal for Laser applications	M.N. Rode, G.G. Muley, D.V. Meshram, S. S. Hussaini , V.G. Dongre, B.H. Pawar and M.D. Shirsat	Optoelectronics and Advanced Materials – Rapid Communications	2009	1842-6573		0.445
85.	Growth and characterization of an NLO material crystal of triglycine acetate	S.S. Hussaini , N.R. Dhumane, V.G. Dongre, M.D. Shirsat	Materials Science- Poland,	2009			
86.	Influence of Lithium Ion (Li+) on NLO Properties of KDP Single Crystal	M. D. Shirsat, S.S. Hussaini , N. R. Dhumane, and V.G. Dongre	Crystal Research Technology,	2008	1521-4079		1.5

87.	Growth and Characterization of Glycine Doped Zinc (tris) Thiourea Sulphate (ZTS) Crystals for Optoelectronics Applications	N.R. Dhumane, S.S. Hussaini , V.G. Dongre, and M.D. Shirsat,	Frontiers of Microwaves and Optoelectronics	2008	978-81-89927-19-6.		
88.	Study the effect of Glycine on the nonlinear optical (NLO) properties of Zinc (tris) Thiourea Sulfate (ZTS) single crystal	N.R. Dhumane, S.S. Hussaini , V.G. Dongre and M.D. Shirsat,	Optical Materials	2008	0925-3467		2.779
89.	Growth and dielectric study of ZTC semi organic nonlinear optical (NLO) crystal for electro-optic modulation	S.S. Hussaini	Optoelectronics and Advanced Materials – Rapid Communications	2008	1842-6573		0.445
90.	Growth and High frequency study of non liner optical Zinc (tris) Thiourea Sulphate Crystal	S.S. Hussaini , N.R. Dhumane, V.V. Nawarkhele, G. Rabbani, and M.D. Shirsat	Frontiers of Microwaves and Optoelectronics	2008	978-81-89927-19-6.		
91.	“Effect of Glycine on optical and thermal properties of	S. S. Hussaini , N.R. Dhumane, V.G.	Frontiers of Microwaves and	2008	978-81-89927-19-6.		

	KDP single crystal”,	Dongre, and M.D. Shirsat,	Optoelectronics				
92.	Effect of glycine on the optical properties of Zinc Thiourea chloride (ZTC) single crystal	S. S. Hussaini , N. R. Dhumane, V. G. Dongre, M. D. Shirsat,	Optoelectronics and Advanced Materials – Rapid Communications	2008			
93.	Effect of thiourea on the optical properties of Di-sodium hydrogen phosphate (DSHP) single crystal	M. N. Rode, S. S. Hussaini , G. Muley, B. H. Pawar, M. D. Shirsat,	Optoelectronics and Advanced Materials – Rapid Communications	2008	1842-6573		0.449
94.	Growth and High Frequency Dielectric Study Of Pure and Thiourea Doped KDP Crystals	S S Hussaini , N R Dhumane, G. Rabbani, P. Karmuse, V.G. Dongre and M D Shirsat,	Crystal Research Technology,	2007	1521-4079		1.5
95.	Growth and Characterization of Glycine Doped KDP Single Crystal for Optoelectronics Applications”	S.S. Hussaini , N.R. Dhumane, V.G. Dongre, P.Ghughare, M.D. Shirsat	Journal of Optoelectronics and Advanced Materials – Rapid Communications,		1842-6573		0.449
96.	The influence of electrochemical process	D.J. Shirale, V.K. Gade, P.D. Gaikwad,	Materials Letters	2006	0167-577X		3.204

	parameters on the conductivity of poly(N-methylpyrrole) films by galvanostatic method	H.J. Kharat, K.P. Kakde, P.A. Savale, S.S. Hussaini , N.R. Dhumane, M.D. Shirsat					
97.	Dielectric Studies of Metal Complexes of Thiourea Crystals for Electro-optic Modulation	N R Dhumane, S S Hussaini , V V Navarkhele and M D Shirsat	Crystal Research Technology	2006	1521-4079		1.5
98.	Synthesis of H ₂ SO ₄ doped polyaniline film by potentiometric method	P D Gaikwad, D J Shirale, V K Gade, P A Savale, H J Kharat, K P Kakde, S S Hussaini , N R Dhumane and M D Shirsat,	Bulletin of Material Science	2006	0250-4707		1.392
99.	An analysis of modified cladding step index multimode fiber optic evanescent wave chemical sensor	K.P. Kakde, D.J. Shirale, H.J. Kharat, P.D. Gaikwad, P.A. Savale, V.K. Gade, S.S. Hussaini , N.R. Dhumane and M.D. Shirsat	Journal of Instrumentation Society of India	2006			

100.	Fiber optic evanescent wave chemical sensor for the detection of the gas	K P Kakde, D J Shirale, H J Kharat, P D Gaikwad, P A Savale, V K Gade, S S Hussaini , N R Dhumane and M D Shirsat,	Journal of Basic and Applied Sciences	2006	1927-5129		
101.	Synthesis of P(NMP) film for glucose oxidase electrode	D.J. Shirale, V.K. Gade, P.D. Gaikwad, H.J. Kharat, K.P. Kakde, P.A. Savale, S.S. Hussaini , N.R. Dhumane and M.D. Shirsat	Transaction of SAEST	2005	0036- 0678		0.56

II. Research Papers Published / Presented in International / National Conference Proceedings

Sr. No.	Title of the Paper Presented	Title of Conference / Seminar	ISBN / ISSN number of the proceeding	Organized by	Month/Year
1.	Focusing nonlinear optical Traits of Parent & L-Tryptophan doped Bis thiourea Cadmium Acetate Crystal for NLO Applications	International Conference online "Recent Trends In Material Science & Nano Technology"		Dr. V.B. Kolte College of Engineering, Malkapur.	2-3 May 2020
2.	Study of Thiourea Zinc Sulphate Doped Potassium Dihydrogen Phosphate Crystal	National Conference on "Recent Trends In Material Science & Nano Technology"		AD College, Kada	17th March 2019
3.	Magnificent Transmutation in optical Traits due to Methionine Doping on ZTS crystal.	National Conference on "Functional Material Synthesis and characterization"		Viadaynath College, Parli	2nd March 2019
4.	Impact of Nickel Thiourea nitrate on Structural and optical Properties of Potassium Dihydrogen Phosphate	8th International conference on "Advanced Materials Development and Performance"		Dept. of Physics, Savitribai Phule Pune Univ. Pune	11-15 July 2017
5.	Influence of L-serine on thermal , linear nonlinear optical, fluorescence properties of ZTS crystal for photonic device applications	8th International conference on "Advanced Materials Development and Performance"		Dept. of Physics, Savitribai Phule Pune Univ. Pune	11-15 July 2017
6.	Natural Hibiscus Dye and Synthetic Organic Eosine Ydye sensitized Solar Cells using	8th International conference on "Advanced Materials Development and		Dept. of Physics, Savitribai Phule Pune	11-15 July 2017

	Titanium Dioxide Nano Particles Photo Anode: Comparative Study	Performance”		Univ. Pune	
7.	Studies on the Structural, Thermal, Fluorescence and Linear–Non-linear Optical Properties of Glycine Sodium Acetate Single Crystal for Electro-Optic Device Applications	International conference on Recent Trends in Materials Science and Applications		JMC Trichy	
8.	Optical Studies of Potassium Thiourea Chloride doped KDP Crystal for Optoelectronics Applications	National Conference on Material Science & Renewable Energy Sources		Shahu College, Latur	March 2016.
9.	Optical Studies of Zinc Thiourea Chloride Doped KDP Crystal For optoelectronics Applications	National Seminar on Crystal Growth and Applications		BARC Mumbai	January2016
10.	Growth and Linear Optical Properties Of L- Lysine Doped Zinc Thiourea Sulphate Crystal For Optoelectronics Applications”,	National Conference on Medical Applications of Pulse Laser And Diagnostic Techniques		Adarsh College, Omerga	January 2015.
11.	Comparative Analysis on optical Properties of Pure and doped Maleic Acid crystal for NLO Device Applications”	National Conference on Medical Applications of Pulse Laser And Diagnostic Techniques		Adarsh College, Omerga	January 2015.

12.	Optical Properties of Disodium Phosphate (DSHP) single Crystal”	National Conference on Material Science,		Mrs. K.S. K .College, Beed	December 2014.
13.	Synthesis, Growth, Structural, Spectroscopic, Thermal and optical properties of NLO single crystal: L-threonine oxalate”,	International Conference on Crystal Growth and Bimolecular Crystallography		Sastra University, Thanjavur, (TN)	November, 2014
14.	Synthesis, growth and linear optical properties of bis thiourea formate (BTCF) crystal for optoelectronics applications	National Conference on Recent trends in Mathematics, Physics and their Applications		Shankarlal Khandelwal College, Akola	March 2014
15.	Optical studies of Amino acids doped Ammonium Dihydrogen Phosphate (ADP) crystals for NLO Applications	International conference on Materials and Characterization Techniques		VIT Vellore	March 2014
16.	Growth, structural & optical studies of potassium dihydrogen phosphate (KDP) doped cadmium thiourea acetate (CTA) metal complex crystal	International conference on Materials and Characterization Techniques		VIT Vellore	March 2014
17.	Studies on optical, spectral, surface morphology and SHG efficiency of Glycine doped bis	National Seminar on Crystal Growth		SSN College of Engineering, Chennai	Feb 2014

	thiourea cadmium formate crystals”				
18.	Investigation on optical properties of Glycine crystal grown in presence of sodium acetate	National Seminar on Crystal Growth		SSN College of Engineering, Chennai	Feb 2014
19.	Structural and Optical Characterization of Glycine Doped Malic Acid crystals for NLO Applications	National conference on Microwave Techniques and Applications		Maulana Azad College, Aurangabad	November 2013
20.	Growth and Optical Characterization of Thiourea Magnesium Chloride Crystal for NLO Applications	National conference on Microwave Techniques and Applications		Maulana Azad College, Aurangabad	November 2013
21.	Optical And Dielectric Studies of L- Lysine Doped ADP Single Crystal”	National conference on Upcoming trends in Chemical Science		Shri Anand College Pathardi	September 2013
22.	Growth and characterization of L- Alanine Mixed Cadmium Thiourea Acetate Crysta	National conference on Upcoming trends in Chemical Science		Shri Anand College Pathardi	September 2013
23.	Growth and characterization of L- Alanine Mixed Cadmium Thiourea Acetate Crystal	National conference on Upcoming trends in Chemical Science		Shri Anand College Pathardi	September 2013

24.	Investigation of Vortex beam in Photorefractive crystals	National Conference on "Physics and Chemistry of Advanced Materials		B. Khedgi's Basaveshwar Science Akkalkot	December 2013
25.	Growth and characterization of L-Alanine doped ADP Single Crystal for Optoelectronics Applications	National conference on Upcoming trends in Chemical Science		Shri Anand College Pathardi	September 2013
26.	Innovative Teaching Methods for Physics	National Seminar on Innovative Teaching Methods in Physics		Doegiri College, Aurangabad	August 2013
27.	Growth Study of Glycine doped ADP single crystal	National Conference on Laser and Advanced Materials		Dept. of Physics Sant Gadge Baba University, Amravati	May 2012
28.	Growth and optical studies of Bis Glycine hydrogen bromide (BGHB)	National Conference on Recent Trends in Material Research		Birla College, Kalyan	January 2011
29.	Synthesis, Growth and characterization of zinc (tris) thiourea sulfate (ZTS) doped with L-Alanine	National Conference on Crystal Growth		Vellore Institute of Technology (VIT), Vellor	March 2010
30.	SHG studies of Glycine doped Bis	International Conference on		Swarnandhra	January 2010

	Thiourea Cadmium Chloride (BTCC) single Crystal : A Semi Organic NLO Material	MEMS and Optoelectronics Technologies		College of Engineering & Technology, Narsapur (A.P)	
31.	Development of Novel Non-linear Optical Crystal of Tri-Glycine Acetate(TGAc)	International Conference on MEMS and Optoelectronics Technologies		Swarnandhra College of Engineering & Technology, Narsapur (A.P)	January 2010
32.	Growth and characterization of non-linear optics single crystal	International Conference on Optics and Photonics		CSIO Chandigarh	November 2009
33.	Growth and characterization of Li+ ion doped KDP Single Crystal for optoelectronics applications	State level Seminar on Advanced study in solid state physics and crystal		Balbhim College, Beed	March 2008
34.	Growth and optical study of Glycine doped Zinc Thiourea Chloride (ZTC) single crystal	International Conference Advanced Materials and Applications		Shivaji University, Kolhapur	November 2007
35.	Study the effect of L-Alanine on the optical properties of Zinc (tris) Thiourea Sulfate (ZTS) single crystal”	International Conference Advanced Materials and Applications		Shivaji University, Kolhapur	November 2007
36.	Growth and High frequency study of non liner optical Zinc (tris) Thiourea Sulphate Crystal”	International Conference on Microwaves and Optoelectronics		Dr. BAMU, Aurangabad-	17-20 December 2007.

37.	Growth and Characterization of Glycine Doped Zinc (tris) Thiourea Sulphate (ZTS) Crystals for Optoelectronics Applications	International Conference on Microwaves and Optoelectronics		Dr. BAMU, Aurangabad-	17-20 December 2007.
38.	Growth and Characterization of NLO Material Crystal for Electro Optics modulation	National conference in Recent Trends in Materials Science		NMU, Jalgoan	March 2006
39.	Crystal Growth, Optical and dielectric studies of Zinc thiourea chloride – a semi organic NLO material”,	National Conference on Crystal Growth and Characterization.		Loyola College, Chennai	Sept-2005
40.	Optimization of the parameters for the fiber optic chemical evanescent sensor for the detection of the vapours	International Conference on Optics and Optoelectronics			2005
41.	Semiconductor behavior of Polyaniline film for the development of biosensors”,	National Workshop on Thin Film Preparation and Characterization Techniques for Energy Conversions			2004
42.	Electrochemical Deposition of poly (O-anisidine) Thin Film under Galvanostatic condition at various pH for Biomedical Applications”,	National Workshop on Thin Film Preparation and Characterization Techniques for Energy Conversion			2004