

Gajanan G Muley

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Synthesis and Nonlinear Optical Absorption of L-Valine Capped Zn-Doped MgO Nanoparticles. <i>Macromolecular Symposia</i> , 2021, 400, 2100021.	0.4	0
2	Doping effect of Ni ²⁺ on structural, UV-visible, SHG efficiency, dielectric and microhardness traits of KH ₂ PO ₄ (KDP) crystal. <i>Optik</i> , 2019, 178, 752-757.	1.4	29
3	Optimizing Structural, Microhardness, Surface Growth Mechanism, Luminescence and Thermal Traits of KH ₂ PO ₄ Crystal Exploiting Multidirectional H-Bonding Quality of Dopant Tartaric Acid. <i>Crystal Research and Technology</i> , 2018, 53, 1700165.	0.6	16
4	Eye-catching modification in external morphology, photoluminescence and SHG efficiency of NH ₄ H ₂ PO ₄ crystal: A consequence of influential presence of tartaric acid. <i>Optik</i> , 2018, 158, 634-638.	1.4	16
5	Novel report on SHG efficiency, Z-scan, laser damage threshold, photoluminescence, dielectric and surface microscopic studies of hybrid inorganic ammonium zinc sulphate hydrate single crystal. <i>Optics and Laser Technology</i> , 2018, 104, 83-89.	2.2	43
6	Influence of Nd ³⁺ on zinc tris-thiourea sulphate single crystal: a comparative crystal growth, structural, linear-nonlinear optical and dielectric study to explore NLO device applications. <i>Materials Research Innovations</i> , 2018, 22, 99-106.	1.0	45
7	Influence of Cu ²⁺ ion on structural, luminescence and dielectric properties of zinc thiourea chloride metal-organic complex crystal. <i>Optik</i> , 2018, 154, 275-279.	1.4	20
8	Nonlinear optical and microscopic analysis of Cu ²⁺ doped zinc thiourea chloride (ZTC) monocrystal. <i>Optics and Laser Technology</i> , 2018, 99, 197-202.	2.2	24
9	Uncovering the influence of Ni ²⁺ on optical and dielectric properties of NH ₄ H ₂ PO ₄ (ADP) crystal. <i>Optik</i> , 2018, 157, 592-596.	1.4	22
10	Fabrication and evaluation of evanescent wave absorption based polyaniline-cladding modified fiber optic urea biosensor. <i>Optical Fiber Technology</i> , 2018, 40, 8-12.	1.4	28
11	Synthesis and nonlinear optical properties of Zn doped TiO ₂ nano-colloids. <i>Optical Materials</i> , 2018, 86, 185-190.	1.7	14
12	Gamma glycine crystal for efficient second harmonic generation of 1064-nm Nd:YAG laser light. <i>Materials Letters</i> , 2018, 233, 238-241.	1.3	23
13	Experimental and computational studies of L-tartaric acid single crystal grown at optimized pH. <i>Journal of Molecular Structure</i> , 2018, 1170, 151-159.	1.8	44
14	Comparative analysis on microhardness and third order nonlinear optical traits of pure and Nd ³⁺ doped zinc tris-thiourea sulphate (ZTS) crystal. <i>Materials Science-Poland</i> , 2018, 36, 403-408.	0.4	21
15	Optical and electrical analysis of Cu ²⁺ ion doped zinc thiourea chloride (ZTC) crystal: An outstanding 30 Å × 24 Å × 04 mm ³ bulk monocrystal grown from pH controlled aqueous solution. <i>Optik</i> , 2017, 137, 31-36.	1.4	23
16	Laser induced optical and microscopic studies of salicylic acid influenced KH ₂ PO ₄ crystal for photonic device applications. <i>Materials Technology</i> , 2017, 32, 560-568.	1.5	30
17	Synchronized effect of Ca ²⁺ ion doping concentration on structural, UV-vis and second harmonic generation efficiency of zinc thiourea chloride (ZTC) crystal: An interesting comparative study. <i>Optik</i> , 2017, 142, 421-425.	1.4	28
18	Influence of tartaric acid on linear-nonlinear optical and electrical properties of KH ₂ PO ₄ crystal. <i>Optical Materials</i> , 2017, 72, 1-7.	1.7	57

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19	Bulk growth of undoped and Nd ³⁺ doped zinc thiourea chloride (ZTC) monocrystal: Exploring the remarkably enhanced structural, optical, electrical and mechanical performance of Nd ³⁺ doped ZTC crystal for NLO device applications. <i>Optics and Laser Technology</i> , 2017, 90, 190-196.	2.2	40
20	Doping effect of carboxylic acids on optical, electrical, mechanical and thermal traits of KDP crystal. <i>Materials Research Innovations</i> , 2017, 21, 439-446.	1.0	31
21	Bulk growth of organic non-linear optical (NLO) L-arginine 4-nitrophenolate 4-nitrophenol dihydrate (LAPP) single crystals by Sankaranarayananâ€™s Ramasamy (SR) method. <i>Materials Research Innovations</i> , 2017, 21, 426-433.	1.0	22
22	Growth, morphology, optical, thermal, mechanical and electrical studies of a cesium chloride doped l-alanine single crystal. <i>Chinese Journal of Physics</i> , 2017, 55, 2181-2191.	2.0	10
23	Novel report on L ³ -glycine crystal yielding high second harmonic generation efficiency. <i>Optical Materials</i> , 2017, 72, 590-595.	1.7	56
24	Comprehensive study on crystal growth, optical and dielectric properties of potassium dihydrogen orthophosphate crystal influenced by organic additive salicylic acid. <i>Optik</i> , 2017, 131, 165-170.	1.4	31
25	Investigation on effect of LiCl doping on optical properties of L-arginine acetate single crystal. <i>Materials Today: Proceedings</i> , 2017, 4, 9491-9495.	0.9	1
26	Performance of Cladding Modified PANI-ZnO Nanocomposite Glucose Oxidase Immobilized Fiber Optic Intrinsic Glucose Biosensor. <i>Macromolecular Symposia</i> , 2016, 362, 101-104.	0.4	2
27	High Temperature Crystal Growth: An Overview. <i>Macromolecular Symposia</i> , 2016, 362, 139-141.	0.4	5
28	Thermal and Optical Properties of Amino Acid Modified ZnO/PVA Colloidal Suspension Under CW Laser Illumination. <i>Macromolecular Symposia</i> , 2016, 362, 73-81.	0.4	11
29	Synthesis, characterization and properties of L-arginine-passivated silver nanocolloids. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	5
30	Synthesis and optical properties of polycrystalline Li ₂ Al ₂ B ₂ O ₇ (LABO). <i>AIP Conference Proceedings</i> , 2016, , .	0.3	0
31	Thermally stimulated nonlinear refraction in gelatin stabilized Cu-PVP nanocomposite thin films. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1
32	Spectroscopic and nonlinear optical studies of pure and Nd-doped lanthanum strontium borate glasses. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1
33	Fabrication of polyaniline-HCl cladding modified fiber optic intrinsic biosensor for glucose detection. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1
34	Evaluate the effect of L-valine on linear and nonlinear optical and electrical properties of BTCA crystal to identify photonic device applications. <i>Materials Research Innovations</i> , 2016, 20, 312-316.	1.0	29
35	Optical and dielectric studies of KH ₂ PO ₄ crystal influenced by organic ligand of citric acid and l-valine: A single crystal growth and comparative study. <i>Results in Physics</i> , 2016, 6, 645-650.	2.0	45
36	Monocrystal growth, X-ray diffraction, photoluminescence, thermal and dielectric studies of cadmium thiourea acetate complex doped with l-cystine. <i>Optik</i> , 2016, 127, 12043-12047.	1.4	21

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37	Effect of Partial Replacement of Zn with Cd on Optical Properties of Zinc Thiourea Chloride (ZTC) Crystal. <i>Procedia Technology</i> , 2016, 24, 715-720.	1.1	7
38	Synthesis and Characterization of a Novel Nonlinear Optical Material Mg ₂ Na ₂ ZnB ₄ O ₁₀ . <i>Procedia Technology</i> , 2016, 24, 682-688.	1.1	4
39	Study of Spectroscopic Properties of Pure and Nd Doped Ca ₃ La ₂ (BO ₃) ₄ Glasses. <i>Procedia Technology</i> , 2016, 24, 727-732.	1.1	1
40	Investigation on nonlinear optical and dielectric properties of L-arginine doped ZTC crystal to explore photonic device applications. <i>Materials Science-Poland</i> , 2016, 34, 548-554.	0.4	16
41	Studies on Thermally Stimulated Nonlinear Absorption in Gelatin Stabilized Cu-PVP Nanocomposite Thin Films. <i>Materials Science Forum</i> , 2016, 863, 85-89.	0.3	3
42	Single crystal growth and enhancing effect of glycine on characteristic properties of bis-thiourea zinc acetate crystal. <i>Physica Scripta</i> , 2016, 91, 085801.	1.2	39
43	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). <i>Materials Research Express</i> , 2016, 3, 106204.	0.8	24
44	Development and study the performance of PBA cladding modified fiber optic intrinsic biosensor for urea detection. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	2
45	Cladding Modified with PANI-Oxalic Acid Composite Glucose Oxidase Immobilized Fiber Optic Intrinsic Glucose Biosensor. <i>Macromolecular Symposia</i> , 2016, 362, 149-151.	0.4	1
46	Passive optical limiting studies of nanostructured Cu doped ZnO/PVA composite thin films. <i>Optical Materials</i> , 2016, 51, 175-184.	1.7	46
47	Optical and thermal study of caesium chloride doped L-threonine single crystal for nonlinear optical applications. <i>Materials Research Innovations</i> , 2016, 20, 128-132.	1.0	3
48	Influence of urea doping on optical, thermal, mechanical and electrical properties of l-arginine phosphate monohydrate crystals for NLO applications. <i>Optik</i> , 2016, 127, 3322-3328.	1.4	12
49	Synthesis, growth and optical studies of novel organometallic NLO crystal: Calcium bis-thiourea chloride. <i>Optik</i> , 2016, 127, 2137-2142.	1.4	60
50	Effect of Sodium Metasilicate on Structural, Optical, Dielectric and Mechanical Properties of ADP Crystal. <i>Journal of Materials Science and Technology</i> , 2016, 32, 62-67.	5.6	43
51	Thermally stimulated third-order optical nonlinearity in Cd-doped Cu/PVA thin films under cw laser illumination. <i>Applied Physics B: Lasers and Optics</i> , 2015, 120, 373-381.	1.1	23
52	Exploring the influence of carboxylic acids on nonlinear optical (NLO) and dielectric properties of KDP crystal for applications of NLO facilitated photonic devices. <i>Optical Materials</i> , 2015, 46, 517-521.	1.7	75
53	Growth, linear/non-linear optical, fluorescence, thermal and electrical studies of glycine-doped bis-thiourea cadmium formate crystal for electro-optic device applications. <i>Materials Research Innovations</i> , 2015, 19, 338-344.	1.0	31
54	Optical, photoconductivity, dielectric and thermal studies of l-arginine doped zinc thiourea chloride crystal for photonics applications. <i>Materials Technology</i> , 2015, 30, 129-133.	1.5	11

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55	Glucose oxidase immobilized PANI cladding modified fiber optic intrinsic biosensor for detection of glucose. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 362-368.	4.0	38
56	Single crystal growth, structural, optical, mechanical, dielectric and thermal studies of formic acid doped potassium dihydrogen phosphate crystal for NLO applications. <i>Crystal Research and Technology</i> , 2015, 50, 372-378.	0.6	50
57	Surface passivation by l-arginine and enhanced optical properties of CdS quantum dots co-doped with Nd ³⁺ and Li ⁺ . <i>Journal of Nanostructure in Chemistry</i> , 2015, 5, 205-212.	5.3	22
58	Studies on nonlocal optical nonlinearity of Sr ²⁺ :Cu ²⁺ polyvinyl alcohol nanocomposite thin films. <i>Thin Solid Films</i> , 2015, 595, 48-55.	0.8	27
59	Evanescent wave absorption based polyaniline cladding modified fiber optic intrinsic biosensor for glucose sensing application. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 61, 9-15.	2.5	26
60	Influence of Li ⁺ and Nd ³⁺ co-doping on structural and optical properties of l-arginine-passivated ZnS nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 118, 675-682.	1.1	23
61	Linear and nonlinear optical properties of nanostructured Zn(1-x)Sr _x O ₂ /PVA composite thin films. <i>Optical Materials</i> , 2014, 37, 42-50.	1.7	31
62	Molecular interactions in substituted pyrimidines-acetonitrile solutions at 298.15-318.15 K. <i>Russian Journal of Physical Chemistry A</i> , 2014, 88, 37-41.	0.1	7
63	Amino acids (l-arginine and l-alanine) passivated CdS nanoparticles: Synthesis of spherical hierarchical structure and nonlinear optical properties. <i>Solid State Sciences</i> , 2014, 38, 42-48.	1.5	28
64	Solar photocatalytic degradation of methylene blue using doped TiO ₂ nanoparticles. <i>Solar Energy</i> , 2014, 103, 473-479.	2.9	50
65	Growth and Characterization of Pure and Cd-Doped Zinc Tris-Thiourea Sulfate (ZTS) Single Crystals. <i>Journal of Electronic Materials</i> , 2014, 43, 439-446.	1.0	15
66	Influence of formic acid on electrical, linear and nonlinear optical properties of potassium dihydrogen phosphate (KDP) crystals. <i>Physica B: Condensed Matter</i> , 2014, 449, 61-66.	1.3	76
67	Visible-light-activated nanocomposite photocatalyst of Cr ₂ O ₃ /SnO ₂ . <i>Journal of Nanostructure in Chemistry</i> , 2013, 3, 1.	5.3	31
68	Study on effect of 1,3-dimethyl urea doping on optical properties of l-arginine phosphate monohydrate (LAP) single crystal. <i>Results in Physics</i> , 2013, 3, 97-102.	2.0	6
69	SECOND HARMONIC GENERATION, THERMAL AND OPTICAL STUDY OF POTASSIUM IODIDE DOPED L-THREONINE SINGLE CRYSTAL. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2013, 22, 1350031.	1.1	2
70	FT-IR, Thermal and NLO Studies on Amino Acid (L-Arginine and L-Alanine) Doped KDP Crystals. <i>Acta Physica Polonica A</i> , 2009, 116, 1033-1038.	0.2	45
71	Monocrystal growth and characterization study of α - and β -polymorph of glycine to explore superior performance of β -glycine crystal. <i>Materials Research Innovations</i> , 0, , 1-6.	1.0	9