Gajanan G Muley

List of Publications by Year
in descending order

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71 papers	1,682 citations	201575 27 h-index	330025 37 g-index
71 all docs	71 docs citations	71 times ranked	905 citing authors

#	Article	IF	Citations
1	Influence of formic acid on electrical, linear and nonlinear optical properties of potassium dihydrogen phosphate (KDP) crystals. Physica B: Condensed Matter, 2014, 449, 61-66.	1.3	76
2	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, 2015, 46, 517-521.	1.7	75
3	Synthesis, growth and optical studies of novel organometallic NLO crystal: Calcium bis-thiourea chloride. Optik, 2016, 127, 2137-2142.	1.4	60
4	Influence of tartaric acid on linear-nonlinear optical and electrical properties of KH2PO4 crystal. Optical Materials, 2017, 72, 1-7.	1.7	57
5	Novel report on Î³-glycine crystal yielding high second harmonic generation efficiency. Optical Materials, 2017, 72, 590-595.	1.7	56
6	Solar photocatalytic degradation of methylene blue using doped TiO2 nanoparticles. Solar Energy, 2014, 103, 473-479.	2.9	50
7	Single crystal growth, structural, optical, mechanical, dielectric and thermal studies of formic acid doped potassium dihydrogen phosphate crystal for NLO applications. Crystal Research and Technology, 2015, 50, 372-378.	0.6	50
8	Passive optical limiting studies of nanostructured Cu doped ZnOâ€“PVA composite thin films. Optical Materials, 2016, 51, 175-184.	1.7	46
9	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. Results in Physics, 2016, 6, 645-650.	2.0	45
10	Influence of Nd³⁺ on zinc tris-thiourea sulphate single crystal: a comparative crystal growth, structural, linearâ€“nonlinear optical and dielectric study to explore NLO device applications. Materials Research Innovations, 2018, 22, 99-106.	1.0	45
11	FT-IR, Thermal and NLO Studies on Amino Acid (L-Arginine and L-Alanine) Doped KDP Crystals. Acta Physica Polonica A, 2009, 116, 1033-1038.	0.2	45
12	Experimental and computational studies of L -tartaric acid single crystal grown at optimized pH. Journal of Molecular Structure, 2018, 1170, 151-159.	1.8	44
13	Effect of Sodium Metasilicate on Structural, Optical, Dielectric and Mechanical Properties of ADP Crystal. Journal of Materials Science and Technology, 2016, 32, 62-67.	5.6	43
14	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. Optics and Laser Technology, 2018, 104, 83-89.	2.2	43
15	Bulk growth of undoped and Nd3+ doped zinc thiourea chloride (ZTC) monocrystal: Exploring the remarkably enhanced structural, optical, electrical and mechanical performance of Nd3+ doped ZTC crystal for NLO device applications. Optics and Laser Technology, 2017, 90, 190-196.	2.2	40
16	Single crystal growth and enhancing effect of glycine on characteristic properties of bis-thiourea zinc acetate crystal. Physica Scripta, 2016, 91, 085801.	1.2	39
17	Glucose oxidase immobilized PANI cladding modified fiber optic intrinsic biosensor for detection of glucose. Sensors and Actuators B: Chemical, 2015, 210, 362-368.	4.0	38
18	Visible-light-activated nanocomposite photocatalyst of Cr2O3/SnO2. Journal of Nanostructure in Chemistry, 2013, 3, 1.	5.3	31

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19	Linear and nonlinear optical properties of nanostructured Zn(1â^'x)SrxOâ€"PVA composite thin films. Optical Materials, 2014, 37, 42-50.	1.7	31
20	Growth, linearâ€"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, 19, 338-344.	1.0	31
21	Doping effect of carboxylic acids on optical, electrical, mechanical and thermal traits of KDP crystal. Materials Research Innovations, 2017, 21, 439-446.	1.0	31
22	Comprehensive study on crystal growth, optical and dielectric properties of potassium dihydrogen orthophosphate crystal influenced by organic additive salicylic acid. Optik, 2017, 131, 165-170.	1.4	31
23	Laser induced optical and microscopic studies of salicylic acid influenced KH₂PO₄ crystal for photonic device applications. Materials Technology, 2017, 32, 560-568.	1.5	30
24	Evaluate the effect of L-valine on linearâ€"nonlinear optical and electrical properties of BTCA crystal to identify photonic device applications. Materials Research Innovations, 2016, 20, 312-316.	1.0	29
25	Doping effect of Ni2+ on structural, UV-visible, SHG efficiency, dielectric and microhardness traits of KH2PO4 (KDP) crystal. Optik, 2019, 178, 752-757.	1.4	29
26	Amino acids (l-arginine and l-alanine) passivated CdS nanoparticles: Synthesis of spherical hierarchical structure and nonlinear optical properties. Solid State Sciences, 2014, 38, 42-48.	1.5	28
27	Synchronized effect of Ca2+ ion doping concentration on structural, UVâ€"vis and second harmonic generation efficiency of zinc thiourea chloride (ZTC) crystal: An interesting comparative study. Optik, 2017, 142, 421-425.	1.4	28
28	Fabrication and evaluation of evanescent wave absorption based polyaniline-cladding modified fiber optic urea biosensor. Optical Fiber Technology, 2018, 40, 8-12.	1.4	28
29	Studies on nonlocal optical nonlinearity of Srâ€"CuOâ€"polyvinyl alcohol nanocomposite thin films. Thin Solid Films, 2015, 595, 48-55.	0.8	27
30	Evanescent wave absorption based polyaniline cladding modified fiber optic intrinsic biosensor for glucose sensing application. Measurement: Journal of the International Measurement Confederation, 2015, 61, 9-15.	2.5	26
31	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). Materials Research Express, 2016, 3, 106204.	0.8	24
32	Nonlinear optical and microscopic analysis of Cu2+ doped zinc thiourea chloride (ZTC) monocrystal. Optics and Laser Technology, 2018, 99, 197-202.	2.2	24
33	Thermally stimulated third-order optical nonlinearity in Cd-doped CuOâ€"PVA thin films under cw laser illumination. Applied Physics B: Lasers and Optics, 2015, 120, 373-381.	1.1	23
34	Influence of Li+ and Nd3+ co-doping on structural and optical properties of l-arginine-passivated ZnS nanoparticles. Applied Physics A: Materials Science and Processing, 2015, 118, 675-682.	1.1	23
35	Optical and electrical analysis of Cu2+ ion doped zinc thiourea chloride (ZTC) crystal: An outstanding 30 Ã— 24 Ã— 04 mm3 bulk monocrystal grown from pH controlled aqueous solution. Optik, 2017, 137, 31-36.	1.4	23
36	Gamma glycine crystal for efficient second harmonic generation of 1064â€¯nm Nd:YAG laser light. Materials Letters, 2018, 233, 238-241.	1.3	23

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37	Surface passivation by l-arginine and enhanced optical properties of CdS quantum dots co-doped with Nd3+â€“Li+. Journal of Nanostructure in Chemistry, 2015, 5, 205-212.	5.3	22
38	Bulk growth of organic non-linear optical (NLO) L-arginine 4-nitrophenolate 4-nitrophenol dihydrate (LAPP) single crystals by Sankaranarayananâ€“Ramasamy (SR) method. Materials Research Innovations, 2017, 21, 426-433.	1.0	22
39	Uncovering the influence of Ni2+ on optical and dielectric properties of NH4H2PO4 (ADP) crystal. Optik, 2018, 157, 592-596.	1.4	22
40	Monocrystal growth, X-ray diffraction, photoluminescence, thermal and dielectric studies of cadmium thiourea acetate complex doped with l- cystine. Optik, 2016, 127, 12043-12047.	1.4	21
41	Comparative analysis on microhardness and third order nonlinear optical traits of pure and Nd³⁺ doped zinc tris-thiourea sulphate (ZTS) crystal. Materials Science-Poland, 2018, 36, 403-408.	0.4	21
42	Influence of Cu2+ ion on structural, luminescence and dielectric properties of zinc thiourea chloride metal-organic complex crystal. Optik, 2018, 154, 275-279.	1.4	20
43	Investigation on nonlinear optical and dielectric properties of L-arginine doped ZTC crystal to explore photonic device applications. Materials Science-Poland, 2016, 34, 548-554.	0.4	16
44	Optimizing Structural, Microhardness, Surface Growth Mechanism, Luminescence and Thermal Traits of KH₂PO₄ Crystal Exploiting Multidirectional Hâ€Bonding Quality of Dopant Tartaric Acid. Crystal Research and Technology, 2018, 53, 1700165.	0.6	16
45	Eye-catching modification in external morphology, photoluminescence and SHG efficiency of NH4H2PO4 crystal: A consequence of influential presence of tartaric acid. Optik, 2018, 158, 634-638.	1.4	16
46	Growth and Characterization of Pure and Cd-Doped Zinc Tris-Thiourea Sulfate (ZTS) Single Crystals. Journal of Electronic Materials, 2014, 43, 439-446.	1.0	15
47	Synthesis and nonlinear optical properties of Zn doped TiO2 nano-colloids. Optical Materials, 2018, 86, 185-190.	1.7	14
48	Influence of urea doping on optical, thermal, mechanical and electrical properties of l-arginine phosphate monohydrate crystals for NLO applications. Optik, 2016, 127, 3322-3328.	1.4	12
49	Optical, photoconductivity, dielectric and thermal studies of l-arginine doped zinc thiourea chloride crystal for photonics applications. Materials Technology, 2015, 30, 129-133.	1.5	11
50	Thermoâ€Optical Properties of Amino Acid Modified ZnOâ€PVA Colloidal Suspension Under CW Laser Illumination. Macromolecular Symposia, 2016, 362, 73-81.	0.4	11
51	Growth, morphology, optical, thermal, mechanical and electrical studies of a cesium chloride doped l-alanine single crystal. Chinese Journal of Physics, 2017, 55, 2181-2191.	2.0	10
52	Monocrystal growth and characterization study of Î±- and Î³-polymorph of glycine to explore superior performance of Î³-glycine crystal. Materials Research Innovations, 0, , 1-6.	1.0	9
53	Molecular interactions in substituted pyrimidines-acetonitrile solutions at 298.15â€“318.15 K. Russian Journal of Physical Chemistry A, 2014, 88, 37-41.	0.1	7
54	Effect of Partial Replacement of Zn with Cd on Optical Properties of Zinc Thiourea Chloride (ZTC) Crystal. Procedia Technology, 2016, 24, 715-720.	1.1	7

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55	Study on effect of 1,3-dimethyl urea doping on optical properties of l-arginine phosphate monohydrate (LAP) single crystal. Results in Physics, 2013, 3, 97-102.	2.0	6
56	High Temperature Crystal Growth: An Overview. Macromolecular Symposia, 2016, 362, 139-141.	0.4	5
57	Synthesis, characterization and properties of L-arginine-passivated silver nanocolloids. AIP Conference Proceedings, 2016, , .	0.3	5
58	Synthesis and Characterization of a Novel Nonlinear Optical Material Mg2Na2ZnB4O10. Procedia Technology, 2016, 24, 682-688.	1.1	4
59	Studies on Thermally Stimulated Nonlinear Absorption in Gelatin Stabilized Cu-PVP Nanocomposite Thin Films. Materials Science Forum, 2016, 863, 85-89.	0.3	3
60	Optical and thermal study of caesium chloride doped L-threonine single crystal for nonlinear optical applications. Materials Research Innovations, 2016, 20, 128-132.	1.0	3
61	SECOND HARMONIC GENERATION, THERMAL AND OPTICAL STUDY OF POTASSIUM IODIDE DOPED L-THREONINE SINGLE CRYSTAL. Journal of Nonlinear Optical Physics and Materials, 2013, 22, 1350031.	1.1	2
62	Performance of Cladding Modified PANI-ZnO Nanocomposite Glucose Oxidase Immobilized Fiber Optic Intrinsic Glucose Biosensor. Macromolecular Symposia, 2016, 362, 101-104.	0.4	2
63	Development and study the performance of PBA cladding modified fiber optic intrinsic biosensor for urea detection. AIP Conference Proceedings, 2016, , .	0.3	2
64	Thermally stimulated nonlinear refraction in gelatin stabilized Cu-PVP nanocomposite thin films. AIP Conference Proceedings, 2016, , .	0.3	1
65	Spectroscopic and nonlinear optical studies of pure and Nd-doped lanthanum strontium borate glasses. AIP Conference Proceedings, 2016, , .	0.3	1
66	Fabrication of polyaniline-HCl cladding modified fiber optic intrinsic biosensor for glucose detection. AIP Conference Proceedings, 2016, , .	0.3	1
67	Study of Spectroscopic Properties of Pure and Nd Doped Ca3La2(BO3)4 Glasses. Procedia Technology, 2016, 24, 727-732.	1.1	1
68	Cladding Modified with PANI-Oxalic Acid Composite Glucose Oxidase Immobilized Fiber Optic Intrinsic Glucose Biosensor. Macromolecular Symposia, 2016, 362, 149-151.	0.4	1
69	Investigation on effect of LiCl doping on optical properties of L -arginine acetate single crystal. Materials Today: Proceedings, 2017, 4, 9491-9495.	0.9	1
70	Synthesis and optical properties of polycrystalline Li2Al2B2O7 (LABO). AIP Conference Proceedings, 2016, , .	0.3	0
71	Synthesis and Nonlinear Optical Absorption of Lâ€Valine Capped Znâ€Doped MgO Nanoparticles. Macromolecular Symposia, 2021, 400, 2100021.	0.4	0