

Vinitha G

List of Publications by Year in descending order

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295
papers

4,198
citations

168829

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274796

44
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298
docs citations

298
times ranked

2556
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigations on synthesis, growth and physicochemical properties of organic nonlinear optical crystal: 2-aminopyridinium maleate. <i>Inorganic and Nano-Metal Chemistry</i> , 2023, 53, 340-346.	0.9	0
2	Tuning the non-linear optical absorption properties of Eu ³⁺ -doped NiWO ₄ nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 8308-8317.	1.1	4
3	Third-order nonlinear optical characteristics of Er ³⁺ -doped BaMoO ₄ nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 8542-8550.	1.1	7
4	Third order measurements, thermal and mechanical stress tolerance studies of a nonlinear borate family hybrid crystal towards optoelectronic applications. <i>Materials Today: Proceedings</i> , 2022, 49, 1504-1510.	0.9	3
5	Synthesis, structural-spectral characterization and density functional theoretical studies of pyridine-4-carbohydrazide bis(4-hydroxynitrobenzene). <i>Journal of Molecular Structure</i> , 2022, 1247, 131362.	1.8	3
6	Intensity tunable optical limiting behaviour of an organic material 2-aminopyridinium succinate succinic acid single crystal. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 167-176.	1.1	5
7	Supramolecular Assembly of Morpholin-4-ium hydroxy(diphenyl)acetate—Structural, Spectral and Nonlinear Optical Analyses. <i>Journal of Molecular Structure</i> , 2022, 1250, 131719.	1.8	5
8	Crystal growth, physico-chemical and quantum chemical investigations on Butyl para-hydroxybenzoate single crystals for optical applications. <i>Journal of Molecular Structure</i> , 2022, 1250, 131739.	1.8	1
9	Synthesis, structural characterization, Hirshfeld surface analysis and third-order nonlinear optical properties of Schiff bases derived from 1,1-diphenylmethanamine. <i>Journal of Molecular Structure</i> , 2022, 1251, 131942.	1.8	9
10	Synthesis, structural, vibrational, molecular docking and nonlinear optical studies of (E)-N ² -(2,3-dimethoxybenzylidene)-4-fluorobenzohydrazide. <i>Journal of Molecular Structure</i> , 2022, 1254, 132375.	1.8	2
11	Experimental and theoretical evaluation of a novel organic proton transfer crystal p-Toluidinium 5-chloro-2-hydroxybenzoate for third order nonlinear optical applications. <i>Chinese Journal of Physics</i> , 2022, 75, 76-89.	2.0	1
12	Experimental and theoretical approach of novel third-order nonlinear optical single crystal: benzamide 5-chloro-2-hydroxybenzoic acid. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 4579-4597.	1.1	1
13	Growth, structural, spectral, Hirshfeld analysis, photoluminescence, linear and third order NLO properties of a novel organic p-toluidinium succinate succinic acid single crystal. <i>Journal of Crystal Growth</i> , 2022, 580, 126471.	0.7	6
14	Novel C-H...O hydrogen-bonded supramolecular complexes of 18-crown-6 with 1-alkylpyridinium iodide and its amino derivatives: Third-order nonlinear optical properties and Hirshfeld surface analysis. <i>Journal of Molecular Structure</i> , 2022, 1253, 132310.	1.8	7
15	Growth and characterization of organic 4-methyl-2-nitroaniline single crystals for nonlinear optical applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 5909-5923.	1.1	6
16	Investigation on growth, structural, DFT and third-order nonlinear optical studies of cyclohexylammonium 4-nitrobenzoate for optical limiting applications. <i>Indian Journal of Physics</i> , 2022, 96, 3297-3309.	0.9	3
17	Computation and experimental results on spectroscopic and physicochemical properties of efficient piperidine driven passive optical limiting material. <i>Physica Scripta</i> , 2022, 97, 035804.	1.2	0
18	Exploring an efficient nonlinear optical single-crystal L-Proline potassium pentaborate octahydrate (LPPPB) for optical limiting applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 4694.	1.1	0

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19	Crystal growth and physico-chemical characterization of methyl ammonium chloride doping on the characteristics of potassium dihydrogen phosphate crystal for nonlinear optical applications. <i>Inorganic Chemistry Communication</i> , 2022, 137, 109207.	1.8	6
20	BaZrO ₃ perovskite – A UV light mediated congo red dye deactivator catalyst with good optical switching and antimicrobial abilities green synthesized using Moringa oleifera leaf extract. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 278, 115636.	1.7	5
21	Synthesis, spectral characterisation, third-order nonlinear optical properties and quantum chemical studies on (E)-4-bromo-N'-(2,4-dimethoxybenzylidene)benzohydrazide crystal for optoelectronics applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 7883-7899.	1.1	2
22	Crystal growth, structural, spectral, optical, DFT analysis and Z-scan analysis of pyridine-1-ium-2-carboxylatehydrogenbromide (PHBr) for optoelectronic and nonlinear optical applications. <i>Journal of the Indian Chemical Society</i> , 2022, 99, 100397.	1.3	5
23	The role of defects in the nonlinear optical absorption behavior of pristine and Co-doped V ₂ O ₅ layered 2D nanostructures. <i>Journal of Alloys and Compounds</i> , 2022, 907, 164413.	2.8	5
24	Synthesis, structure, NBO, Hirshfeld surface, NMR, HOMO-LUMO, UV, photoluminescence, z scan, vibrational and thermal analysis of piperazinedi-ium tetrakis (1/42 –chloro)-diaqua-dichloro-di-cadmium single crystal. <i>Journal of Molecular Structure</i> , 2022, 1258, 132685.	1.8	13
25	Synthesis, structural-spectral characterization and theoretical studies of Pyridinium-4-carbohydrazide 2,4,6-trinitrophenolate. <i>Journal of Molecular Structure</i> , 2022, 1262, 132779.	1.8	8
26	Influence of Ni doping on the structural and third order nonlinear optical properties of ZnMoO ₄ nanostructures. <i>Ceramics International</i> , 2022, 48, 29267-29273.	2.3	9
27	Enhanced visible light photocatalytic activity of magnetic cobalt doped BiFeO ₃ . <i>Surfaces and Interfaces</i> , 2022, 31, 102050.	1.5	8
28	Growth, spectral and quantum chemical investigation on hexamethylenetetramine 4-nitrophenol monohydrate single crystals for second harmonic generation and optical limiting applications. <i>Journal of Molecular Structure</i> , 2022, 1265, 133406.	1.8	4
29	Structural, Third Order Nonlinear and magnetic properties of pristine and Ni-doped CuO nanoparticles: Diluted magnetic semiconductors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 650, 129582.	2.3	7
30	Growth and Characterization of Second and Third Order Acentric Studies of l-Phenylalanine l-Phenylalaninium Malonate Single Crystal. <i>Crystals</i> , 2022, 12, 869.	1.0	4
31	Growth and characterization of pure and metal ions-doped l-Taurine: a third-order nonlinear optical crystal for photonic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 15719-15733.	1.1	0
32	Crystal structure, molecular structural analysis, optical absorption and thermal analysis of 2-amino-6-methyl pyridine-1-ium 2-carboxy-6-nitro benzoate – A third harmonic nonlinear optical organic single crystal. <i>Chinese Journal of Physics</i> , 2022, 78, 409-434.	2.0	5
33	Enhanced third order non-linear optical characteristics of Ba ²⁺ doped CoMoO ₄ nanostructures. <i>Optical Materials</i> , 2022, 131, 112694.	1.7	6
34	Investigations on structural, electrical, and third order nonlinear optical properties of benzimidazolium maleate single crystal. <i>Materials Today: Proceedings</i> , 2021, 36, 163-166.	0.9	9
35	Optical and nonlinear optical properties of Zn _{0.96} Cu _{0.04} Al ₂ O ₄ nanocomposites prepared by combustion method. <i>Materials Today: Proceedings</i> , 2021, 36, 175-178.	0.9	9
36	Effect of organic additive on the growth and characterization of potassium hydrogen phthalate crystals: third-order nonlinear optical properties. <i>Materials Today: Proceedings</i> , 2021, 34, 425-429.	0.9	2

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37	Synthesis, molecule growth, characterization, theoretical studies and nonlinear optical properties of new chalcone derivative containing thiophene moiety for optical device applications. <i>Indian Journal of Physics</i> , 2021, 95, 1517-1531.	0.9	0
38	Third order nonlinear optical single crystal of piperazinium Suberate monohydrate for opto-electronic applications. <i>Materials Today: Proceedings</i> , 2021, 36, 824-827.	0.9	1
39	Bifunctional WO ₃ microrods decorated RGO composite as catechol sensor and optical limiter. <i>Applied Surface Science</i> , 2021, 536, 147669.	3.1	15
40	Synthesis, growth, optical, mechanical, thermal, dielectric and third order nonlinear optical properties of cyclohexylamine derivative single crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 247, 119063.	2.0	5
41	Piperazinium bis (5-chlorosalicylate) – A new third order nonlinear optical single crystal. <i>Journal of Molecular Structure</i> , 2021, 1228, 129728.	1.8	19
42	Discussion on spectral, electrical and third-order nonlinear optical susceptibility of semi-organic tris(cyclohexylammonium) tris(o-chlorobenzoate) dihydrate single crystal. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 141-150.	1.1	0
43	Fluorescent carbon quantum dots from Ananas comosus waste peels: A promising material for NLO behaviour, antibacterial, and antioxidant activities. <i>Inorganic Chemistry Communication</i> , 2021, 124, 108397.	1.8	30
44	Investigations on Structural, Mechanical, Optical, Electrical, Third-Order Nonlinear Optical and Antibacterial Activity of 4-Aminopyridine Monophthalate Single Crystal. <i>Journal of Electronic Materials</i> , 2021, 50, 291-302.	1.0	7
45	Synthesis, structure, third-order nonlinear optical properties and Hirshfeld surface analysis of tetrakis(azepanium) hexachlorostannate(IV) dichloride and tetrakis(azepanium) hexabromostannate(IV) dibromide. <i>Journal of Molecular Structure</i> , 2021, 1227, 129515.	1.8	10
46	Synthesis, crystal structure and solid-state properties of 4-(3-nitrophenylamino)-4-methylpentan-2-one picrate (3NAP): An efficient cocrystal for 3 rd optics. <i>Journal of Molecular Structure</i> , 2021, 1225, 129098.	1.8	8
47	Conservative Approach for Treatment of Isolated Mandibular Fractures, the Adaptations During COVID 19 Pandemic. <i>Journal of Maxillofacial and Oral Surgery</i> , 2021, , 1-7.	0.6	0
48	Reply to Comments on “Studies on the third order nonlinear optical properties of a novel o-Phenylenediaminium p-Toluenesulfonate single crystal” Materials Letters, 2021, 282, 128623.	1.3	0
49	Growth, optical, dielectric and mechanical properties of benzimidazolium 3,5-dinitrobenzoate single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 2987-2998.	1.1	7
50	Investigation on nonlinear optical and antibacterial properties of organic single crystal: p-Toluidinium L-Tartrate. <i>Chemical Data Collections</i> , 2021, 31, 100640.	1.1	10
51	Structural, spectral, experimental, and theoretical investigations of (E)-4-fluoro-N ² -(pyridin-2-ylmethylene)benzohydrazide monohydrate. <i>Research on Chemical Intermediates</i> , 2021, 47, 2469.	1.3	3
52	Synthesis, crystal growth, structure, crystalline perfection, thermal, linear, and nonlinear optical investigations on 2-amino-5-nitropyridine 4-chlorobenzoic acid (1:1): a novel organic single crystal for NLO and optical limiting applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 15026-15045.	1.1	12
53	Structural, thermal, dielectric, nonlinear optical properties and DFT investigations of a novel material 2-(6-chloropyridin-3-yl)-N'-(2,3-dihydro-1,4-benzodioxin-6-ylmethylidene)acetohydrazide for optoelectronic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 14677-14702.	1.1	12
54	Synthesis, growth, structural, spectral and optical studies on 2-amino-4-picolinium 4-hydroxybenzoate single crystals. <i>Materials Today: Proceedings</i> , 2021, 47, 4772-4772.	0.9	0

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55	Effect of Zn ²⁺ ions on third order nonlinear optical behavior and power limiting properties of manganese ferrite nanoparticles. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2021, 45, 100922.	1.0	4
56	Crystal structure and physicochemical properties of a new optofunctional metal-organic cocrystal delivering intermolecular charge-transfer-enhanced nonlinear optical and optical limiting properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 18669-18688.	1.1	5
57	Growth and characterization of 2-aminopyridinium malonate single crystal for photonic device applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 21155-21163.	1.1	8
58	A novel chlorocadmate hybrid cocrystal delivering intermolecular charge transfer enhanced nonlinear optical properties and optical limiting. <i>Optical Materials</i> , 2021, 117, 111194.	1.7	12
59	Chloridocobaltate(II) metal-organic cocrystal delivering intermolecular-charge transfer-enhanced passive optical limiting: A comprehensive study on structure-property relation. <i>European Physical Journal D</i> , 2021, 75, 1.	0.6	4
60	Thulium-doped barium tellurite glasses: structural, thermal, linear, and non-linear optical investigations. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 23030-23046.	1.1	28
61	An organic benzimidazolium benzilate (BDBA) crystal: Structural description, spectral investigations, DFT calculations, thermal, photoluminescence, linear and nonlinear optical analysis. <i>Chemical Physics Letters</i> , 2021, 776, 138705.	1.2	16
62	Physicochemical and quantum chemical calculations on new bis (2-amino-6-methylpyridinium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 applications. <i>Chinese Journal of Physics</i> , 2021, 72, 100-125.	2.0	8
63	Synthesis, growth and investigation of an efficient nonlinear optical single crystal: Glycine potassium iodide. <i>Chemical Data Collections</i> , 2021, 34, 100752.	1.1	8
64	Computational molecular structure analysis, electronic properties (HOMO-LUMO, MEP), Hirshfeld surface analysis and third order nonlinear optical profiling of ninhydrin derivative with Z-scan studies. <i>Computational and Theoretical Chemistry</i> , 2021, 1202, 113345.	1.1	5
65	Structural, theoretical and third order nonlinear optical properties of (E)-N-(4-chlorobenzylidene)-4-fluorobenzohydrazide monohydrate. <i>Molecular Crystals and Liquid Crystals</i> , 2021, 725, 66-80.	0.4	4
66	Effect of dopants on the nonlinear optical properties of fluorotellurite glasses for optical limiting application. <i>Physica Scripta</i> , 2021, 96, 125804.	1.2	8
67	First-time investigation on crystal growth, optical, thermal, electrical and third-order non-linear optical activities of novel thiosemicarbazide single crystals for non-linear optical applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 22984-22998.	1.1	3
68	Metal-organic hybrids of tin(IV): Synthesis, crystal structure, third-order nonlinear optical properties and Hirshfeld surface analysis of bis(1,2,3,4-tetrahydroquinolinium) hexahalostannate(IV). <i>Journal of Molecular Structure</i> , 2021, 1237, 130421.	1.8	6
69	Experimental and theoretical investigations of propyl para-hydroxybenzoate crystal for optical applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 25045-25064.	1.1	2
70	A novel organic-inorganic ionic cocrystal - piperazine-1,4-dium tetrachloridocuprate(II) dihydrate delivering efficient optical limiting. <i>Chemical Physics Letters</i> , 2021, 781, 138971.	1.2	7
71	Linear and nonlinear optical properties of 2-Aminopyridinium fumarate fumaric acid single crystal for optoelectronic device applications. <i>Chemical Physics Letters</i> , 2021, 780, 138941.	1.2	14
72	Investigation of the Photoluminescence and Nonlinear Optical Properties of Ce ₂ O ₃ -TiO ₂ Nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 5201-5206.	0.9	2

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73	Promising computational, structural, vibrational and optical properties of piperazinium bis(2-carboxypyridine)monohydrate (PBCPM) crystal for NLO device applications. <i>Optik</i> , 2021, 246, 167836.	1.4	1
74	Self-assembled organic-inorganic hybrids: Synthesis, structural, third-order nonlinear optical properties and Hirshfeld surface analysis of bis(1,2,3,4-tetrahydroisoquinolin-2-ium) hexahalostannate(IV). <i>Journal of Molecular Structure</i> , 2021, 1245, 131092.	1.8	2
75	Effect of rare earth dopants on the radiation shielding properties of barium tellurite glasses. <i>Nuclear Engineering and Technology</i> , 2021, 53, 4106-4113.	1.1	23
76	Growth, structural, optical, z-scan, dielectric and mechanical studies of ethyl para-hydroxybenzoate crystal for optical applications. <i>Optik</i> , 2021, 247, 167880.	1.4	4
77	Investigations on the properties of L-proline doped imidazolium L-tartrate (IMLT) single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 3673-3687.	1.1	1
78	Growth and characterization of organic material 3,4-dimethoxybenzaldehyde-2,4-dinitroaniline single crystal. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 3232-3246.	1.1	9
79	The exploration of the crystal nucleation parameters and physico-chemical analysis of a single crystal: 2-amino-4,6-dimethoxypyrimidinium hydrogen (2 <i>R</i> ,3 <i>R</i>)-tartrate 2-amino-4,6-dimethoxypyrimidine. <i>RSC Advances</i> , 2021, 11, 15710-15721.	1.7	2
80	Self-defocusing, Kerr nonlinearity of green light emitting phosphors, Calcium-Strontium bimetallic tungstate nanoparticles decorated rGO. <i>Optical Materials</i> , 2021, 122, 111680.	1.7	5
81	Experimental, computational analysis of new organic NLO crystal: Piperazinium nicotinic acid and its efficiency in optoelectronic applications. <i>Optical Materials</i> , 2021, 122, 111694.	1.7	1
82	Studies on the Growth, Structural, Optical, Mechanical and Nonlinear Optical Properties of Piperazinium Bis (Salicylate) Single Crystal. <i>Advanced Materials Proceedings</i> , 2021, 5, 5-8.	0.2	1
83	Luminescence and nonlinear optical properties of Er ³⁺ -doped ZnWO ₄ nanostructures. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 386, 112128.	2.0	9
84	Synthesis, structural, thermal, mechanical, laser damage threshold and DFT investigations on bis (2-methylimidazolium-4-aminobenzoate) single crystal. <i>Journal of Molecular Structure</i> , 2020, 1200, 127045.	1.8	11
85	Multiple strong hydrogen bonded supramolecular cocrystals of 18-crown-6 with 5-nitroisophthalic acid: Solvent effect and optical nonlinearities. <i>Journal of Molecular Structure</i> , 2020, 1201, 127158.	1.8	15
86	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. <i>Optics and Laser Technology</i> , 2020, 122, 105849.	2.2	15
87	Third Order Nonlinear Optical Properties of Piperazine Calcium Chloride (PCC) Crystal to Enhance the Optical Device Applications. <i>Journal of Electronic Materials</i> , 2020, 49, 454-463.	1.0	4
88	Synthesis, structural, growth, optical, electrical, thermal and third order nonlinear optical properties of a novel organic single crystal: p-Toluidinium malonate. <i>Journal of Molecular Structure</i> , 2020, 1202, 127257.	1.8	3
89	Experimental and quantum chemical studies on SHG, Z-scan and optical limiting investigation of 2-amino-5-bromopyridinium trifluoroacetate single crystal for optoelectronic applications. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 136, 109133.	1.9	30
90	Facile preparation of high fluorescent carbon quantum dots from orange waste peels for nonlinear optical applications. <i>Luminescence</i> , 2020, 35, 196-202.	1.5	56

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91	Growth and characterization of Catena-(1/4-dihydrogen oxalate)-bis(1/3-hydrogen) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 787 for nonlinear optical applications. Chinese Journal of Physics, 2020, 67, 37-51.	2.0	10
92	Synthesis and characterization analysis of unique organic crystal " Urea Glutaric acid, an optimistic candidate for optical device applications. Physica B: Condensed Matter, 2020, 577, 411804.	1.3	4
93	Co-crystals of urea and hexanedioic acid with third-order nonlinear properties: An experimental and theoretical enquiry. Journal of Molecular Structure, 2020, 1202, 127237.	1.8	25
94	Spectral, dielectric, mechanical and optical characteristics of LPDMCl single crystal for nonlinear optical applications. Physica B: Condensed Matter, 2020, 582, 411980.	1.3	8
95	Influence of gold nanoparticles on the nonlinear optical and photoluminescence properties of Eu ₂ O ₃ doped alkali borate glasses. Physical Chemistry Chemical Physics, 2020, 22, 2019-2032.	1.3	63
96	Data on in-vitro antibacterial activity and third order NLO property of 2-aminopyridine copper sulphate (2APCS). Chemical Data Collections, 2020, 25, 100319.	1.1	6
97	Synthesis, vibrational, thermal, mechanical and third-order nonlinear optical properties of sodium 4-methyl-3-nitrobenzoate monohydrate crystal for optical limiting applications. Chinese Journal of Physics, 2020, 67, 1-26.	2.0	11
98	Visible light photocatalytic activity of Mn-doped BiFeO ₃ nanoparticles. International Journal of Green Energy, 2020, 17, 71-83.	2.1	19
99	Crystal structure, DFT and third order non-linear optical studies of an organic bisguanidium isophthalate monohydrate single crystal. Journal of Molecular Structure, 2020, 1204, 127476.	1.8	9
100	Effect of fuel content on nonlinear optical and antibacterial activities of Zn/Cu/Al ₂ O ₄ nanoparticles prepared by microwave-assisted combustion method. Journal of King Saud University - Science, 2020, 32, 1382-1389.	1.6	14
101	Synthesis, physicochemical properties and third-order optical nonlinearities of cadmium (II) dibromide l - Proline monohydrate for optical limiting application. Journal of Molecular Structure, 2020, 1204, 127457.	1.8	3
102	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. Optics and Laser Technology, 2020, 125, 106043.	2.2	9
103	Thiosemicarbazidezincchloride single crystal: Promising ($Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 272 Td$) device applications. Optik, 2020, 224, 165627.	1.4	2
104	Synthesis, growth, optical and third order nonlinear optical properties of l-Phenylalanine d-Mandelic acid single crystal for photonic device applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 20460-20471.	1.1	19
105	Spectroscopic and third-order nonlinear optical properties of organic single-crystal 2-picolinictrichloroacetate: an overview. Bulletin of Materials Science, 2020, 43, 1.	0.8	0
106	Bioinspired fluorescence carbon quantum dots extracted from natural honey: Efficient material for photonic and antibacterial applications. Nano Structures Nano Objects, 2020, 24, 100589.	1.9	44
107	Growth, Z-scan and density functional theoretical study for investigating the nonlinear optical properties of guanidinium l-glutamate for optical limiting applications. Journal of Molecular Structure, 2020, 1222, 128937.	1.8	9
108	Linear and nonlinear optical investigation of l-arginium adipate single crystal for photonic applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 14545-14552.	1.1	3

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109	Biocompatible Carbon Quantum Dots Derived from Sugarcane Industrial Wastes for Effective Nonlinear Optical Behavior and Antimicrobial Activity Applications. ACS Omega, 2020, 5, 30363-30372.	1.6	99
110	Optical nonlinearities of centrosymmetric pure and cerium doped calcium tungstate dumbbell shaped nanoparticles. Optical Materials, 2020, 110, 110512.	1.7	13
111	Crystal growth, optical, spectroscopic studies, PL behaviour and Hirshfield surface analysis of a third-order nonlinear optical Cesium Hydrogen Oxalate Dihydrate (CHOD) single crystal. Journal of Materials Science: Materials in Electronics, 2020, 31, 15028-15037.	1.1	1
112	Investigations on structural, optical, dielectric, electronic polarizability, Z-scan and antibacterial properties of Ni/Zn/Fe ₂ O ₄ nanoparticles fabricated by microwave-assisted combustion method. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 402, 112794.	2.0	21
113	Synthesis, growth, optical and third-order nonlinear optical properties of glycine sodium nitrate single crystal for photonic device applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 17320-17331.	1.1	6
114	Experimental and computational studies on third-order urea salicylic acid single crystal for optoelectronic device applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 17594-17613.	1.1	4
115	Investigation on linear and nonlinear optical properties of third-order nonlinear optical semi-organic material: ammonium bis (citrate) borate dihydrate. Journal of Materials Science: Materials in Electronics, 2020, 31, 18732-18744.	1.1	6
116	Studies on growth, optical, dielectric, and third-order nonlinearity of 4-methyl N-(4-chlorobenzylidene)aniline (4CBT) crystal. Journal of Materials Science: Materials in Electronics, 2020, 31, 18234-18247.	1.1	1
117	Structural, thermal and electro-optical properties of guanidine based Metal-Organic Framework (MOF). Chinese Journal of Physics, 2020, 68, 764-777.	2.0	20
118	Growth and Study of Piperazine Doped Succinic Acid Single Crystals for NLO Applications. Emerging Materials Research, 2020, 9, 1-9.	0.4	2
119	Synthesis, molecular structural investigations, thermal, linear and nonlinear optical properties of a chalcone containing thiophene moiety by experimental and computation method. Chemical Physics Letters, 2020, 754, 137680.	1.2	7
120	Cyclohexylammonium Cinnamate Single Crystal for Nonlinear Optical Applications. Journal of Electronic Materials, 2020, 49, 3350-3356.	1.0	7
121	Investigations on solid-state parameters of third-order nonlinear optical Ni _{1-x} Zn _x Fe ₂ O ₄ nanoparticles synthesized by microwave-assisted combustion method. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	26
122	Growth, spectroscopic, HOMO-LUMO energies, MEP, hardness and TG/DTA studies of acid potassium hydrogen fumarate as an efficient nonlinear optical material. Journal of Molecular Structure, 2020, 1209, 127946.	1.8	8
123	Nonlinear optical and photocatalytic dye degradation of Co doped CeO ₂ nanostructures synthesized through a modified combustion technique. Ceramics International, 2020, 46, 13932-13940.	2.3	26
124	Investigations on the structural, morphological, linear and third order nonlinear optical properties of manganese doped zinc selenide nanoparticles for optical limiting application. Optical Materials, 2020, 100, 109641.	1.7	52
125	Synthesis and third order optical nonlinearity studies of toluidine tartrate single crystal supported by photophysical characterization and vibrational spectral analysis. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 393, 112413.	2.0	10
126	Crystal growth, spectroscopic, optical, thermal and hirshfeld surface analysis of glyciniium hydrogen fumarate glycine solvate monohydrate (GHFGSM): A third harmonic nonlinear optical organic crystal. Journal of Molecular Structure, 2020, 1213, 128187.	1.8	11

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127	Growth, structural, hirshfeld surface analysis, DFT and Z-scan technique of hybrid single crystal of piperazinium perchlorate. <i>Journal of Molecular Structure</i> , 2020, 1218, 128460.	1.8	4
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