

Vinitha G

List of Publications by Year in descending order

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docs citations

298
times ranked

2316
citing authors

#	ARTICLE	IF	CITATIONS
1	Biocompatible Carbon Quantum Dots Derived from Sugarcane Industrial Wastes for Effective Nonlinear Optical Behavior and Antimicrobial Activity Applications. ACS Omega, 2020, 5, 30363-30372.	3.5	99
2	Third order nonlinear optical properties of potassium dichromate single crystals by Z-scan technique. Optik, 2013, 124, 4716-4720.	2.9	82
3	Crystal structure and characterization of a novel organic optical crystal: 2-Aminopyridinium trichloroacetate. Materials Research Bulletin, 2011, 46, 726-731.	5.2	67
4	A review on the visible light active BiFeO ₃ nanostructures as suitable photocatalyst in the degradation of different textile dyes. Environmental Nanotechnology, Monitoring and Management, 2017, 7, 110-120.	2.9	67
5	Growth and characterization of dl -Mandelic acid (C ₆ H ₅ CH(OH)CO ₂ H) single crystal for third-order nonlinear optical applications. Journal of Molecular Structure, 2017, 1148, 314-321.	3.6	66
6	Third order nonlinear optical properties and optical limiting properties of metal complexes of thiourea using Z-scan. Materials Chemistry and Physics, 2011, 129, 9-14.	4.0	64
7	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.	2.8	63
8	Improved third-order optical nonlinearity and optical limiting behaviour of (nanospindle and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 T excitation. RSC Advances, 2016, 6, 91083-91092.	3.6	60
9	Facile preparation of high fluorescent carbon quantum dots from orange waste peels for nonlinear optical applications. Luminescence, 2020, 35, 196-202.	2.9	56
10	A new organic NLO material isonicotinamidium picrate (ISPA): crystal structure, structural modeling and its physico-chemical properties. RSC Advances, 2016, 6, 57977-57985.	3.6	54
11	Growth, spectral, linear and nonlinear optical characteristics of an efficient semiorganic acentric crystal: L-valinium L-valine chloride. Physica B: Condensed Matter, 2017, 511, 1-9.	2.7	54
12	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.	3.6	52
13	Effect of reduction time on third order optical nonlinearity of reduced graphene oxide. Optical Materials, 2017, 66, 460-468.	3.6	50
14	Influence of copper ions on structural and non-linear optical properties in manganese ferrite nanomaterials. Optical Materials, 2017, 73, 428-436.	3.6	50
15	Studies on growth, crystal structure and characterization of novel organic nicotinium trifluoroacetate single crystals. Materials Chemistry and Physics, 2011, 129, 457-463.	4.0	49
16	Nonlinear optical interactions of Co: ZnO nanoparticles in continuous and pulsed mode of operations. RSC Advances, 2015, 5, 80756-80765.	3.6	49
17	Growth and characterization of an efficient new NLO single crystal L -phenylalanine D -methionine for frequency conversion and optoelectronic applications. Physica B: Condensed Matter, 2017, 525, 164-174.	2.7	49
18	Nonlinear optical studies of sodium borate glasses embedded with gold nanoparticles. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	48

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19	Third-order nonlinear optical properties and power limiting behavior of magnesium ferrite under CW laser (532Ånm, 50 mW) excitation. Journal of Materials Science, 2016, 51, 3289-3296.	3.7	46
20	Synthesis, structural, vibrational, thermal, dielectric and optical properties of third order nonlinear optical single crystal for optical power limiting applications. Journal of Molecular Structure, 2019, 1191, 110-117.	3.6	45
21	Bioinspired fluorescence carbon quantum dots extracted from natural honey: Efficient material for photonic and antibacterial applications. Nano Structures Nano Objects, 2020, 24, 100589.	3.5	44
22	Optical limiting behavior of certain thiourea metal complexes under CW laser excitation. Current Applied Physics, 2011, 11, 860-864.	2.4	41
23	Optical limiting behavior of BaB_2O_4 nanoparticles in pulsed and continuous wave regime. Journal Physics D: Applied Physics, 2015, 48, 065102.	2.8	41
24	Third order nonlinear optical properties and optical limiting behavior of alkali metal complexes of p-nitrophenol. Optics and Laser Technology, 2015, 73, 130-134.	4.6	39
25	Ethylenediaminium di(4-nitrophenolate): A third order NLO material for optical limiting applications. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 138, 158-163.	3.9	38
26	Synthesis and characterization of nickel doped zinc selenide nanospheres for nonlinear optical applications. Journal of Alloys and Compounds, 2019, 791, 601-612.	5.5	38
27	Third-order optical nonlinearities and optical-limiting properties of a Pararosanilin dye in liquid and solid media. Laser Physics, 2008, 18, 1070-1073.	1.2	35
28	Crystal growth, structural, spectral, thermal, dielectric, linear and nonlinear optical characteristics of a new organic acentric material: L-Methionine-Succinic acid (2/1). Journal of Molecular Structure, 2018, 1155, 101-109.	3.6	35
29	Growth, spectral, optical, laser damage threshold and DFT investigations on 2-amino 4-methyl pyridinium 4-methoxy benzoate (2A4MP4MB): A potential organic third order nonlinear optical material for optoelectronic applications. Optics and Laser Technology, 2018, 101, 91-106.	4.6	34
30	Synthesis and optical limiting effects in ZrO_2 and $\text{ZrO}_2@SiO_2$ core-shell nanostructures. Ceramics International, 2013, 39, 5281-5286.	4.8	33
31	Intensity tunable optical limiting behavior of an organometallic cesium hydrogen tartrate single crystal. Journal of Materials Science: Materials in Electronics, 2019, 30, 18885-18896.	2.2	33
32	Third order nonlinearity and optical limiting behaviors of Yb:YAG nanoparticles by Z-scan technique. Optics and Laser Technology, 2019, 109, 561-568.	4.6	33
33	Effect of reducing agents in tuning the third-order optical nonlinearity and optical limiting behavior of reduced graphene oxide. Chemical Physics, 2017, 488-489, 55-61.	1.9	32
34	Facile hydrothermal synthesis of CdFe 2O_4 -reduced graphene oxide nanocomposites and their third-order nonlinear optical properties under CW excitation. Journal of Molecular Liquids, 2018, 256, 519-526.	4.9	32
35	Investigation on structural, optical, thermal and gamma photon shielding properties of zinc and barium doped fluorotellurite glasses. Journal of Non-Crystalline Solids, 2019, 511, 194-200.	3.1	32
36	Spectral characteristics and nonlinear studies of methyl violet 2B dye in liquid and solid media. Laser Physics, 2008, 18, 37-42.	1.2	30

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37	Tunable Nanosecond and Femtosecond Nonlinear Optical Properties of S-Doped TiO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24192-24205.	3.1	30
38	Structural and nonlinear optical properties of nickel substituted manganese ferrite nanoparticles. <i>Ceramics International</i> , 2018, 44, 22592-22600.	4.8	30
39	Effect of Sr ²⁺ doping on the linear and nonlinear optical properties of ZnO nanostructures. <i>Optics and Laser Technology</i> , 2019, 109, 313-318.	4.6	30
40	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.	4.0	30
41	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.	3.9	30
42	Low temperature synthesis and characterization of zinc gallate quantum dots for optoelectronic applications. <i>Journal of Alloys and Compounds</i> , 2018, 740, 567-573.	5.5	29
43	Crystal structure, molecular packing, FMO, NBO, nonlinear optical and optical limiting properties of an organic imidazolium diphenylacetate diphenylacetic acid single crystal. <i>New Journal of Chemistry</i> , 2018, 42, 2439-2449.	2.8	28
44	Barium borate nanorod decorated reduced graphene oxide for optical power limiting applications. <i>Optical Materials</i> , 2018, 75, 612-618.	3.6	28
45	Growth, spectroscopic studies, and third order non-linear optical analysis of an organic dicarboxylic acid based single crystal: Urea Oxalic acid. <i>Chinese Journal of Physics</i> , 2018, 56, 1449-1466.	3.9	28
46	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.	2.2	28
47	Synthesis, growth, structural modeling and physio-chemical properties of a charge transfer molecule: Guanidinium tosylate. <i>Optics and Laser Technology</i> , 2018, 101, 127-137.	4.6	27
48	Growth and characterization of L-histidinium fumarate fumaric acid monohydrate single crystal: A promising second and third order nonlinear optical material. <i>Chinese Journal of Physics</i> , 2019, 60, 581-597.	3.9	27
49	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. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	26
50	Nonlinear optical and photocatalytic dye degradation of Co doped CeO ₂ nanostructures synthesized through a modified combustion technique. <i>Ceramics International</i> , 2020, 46, 13932-13940.	4.8	26
51	Co-crystals of urea and hexanedioic acid with third-order nonlinear properties: An experimental and theoretical enquiry. <i>Journal of Molecular Structure</i> , 2020, 1202, 127237.	3.6	25
52	Single-beam Z-scan measurement of the third-order optical nonlinearities of triarylmethane dyes. <i>Laser Physics</i> , 2008, 18, 1176-1182.	1.2	24
53	OPTICAL, THERMAL AND MECHANICAL STUDIES ON NONLINEAR OPTICAL MATERIAL DIGLYCINE BARIUM CHLORIDE MONOHYDRATE (DGBCM) SINGLE CRYSTAL. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2013, 22, 1350043.	1.8	24
54	Synthesis and characterization of barium fluoride substituted zinc tellurite glasses. <i>Physica B: Condensed Matter</i> , 2017, 526, 84-88.	2.7	24

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55	An experimental and computational approach to electronic and optical properties of Diglycine barium chloride monohydrate crystal: Applications to NLO and OLED. <i>Optics and Laser Technology</i> , 2018, 105, 207-220.	4.6	24
56	Investigation on substituent effect in novel azo-naphthol dyes containing polymethacrylates for nonlinear optical studies. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 1812-1820.	4.0	23
57	Synthesis, growth and physicochemical properties of new organic nonlinear optical crystal l-threoninium tartrate (LTT) for frequency conversion. <i>Materials Science for Energy Technologies</i> , 2019, 2, 565-574.	1.8	23
58	Effect of rare earth dopants on the radiation shielding properties of barium tellurite glasses. <i>Nuclear Engineering and Technology</i> , 2021, 53, 4106-4113.	2.3	23
59	Evaluation of Linear and Nonlinear Optical Properties of A Type 2-Amino-5-Nitropyridinium Dihydrogen Phosphate (2A5NPDP) Single Crystal Grown by the Modified Sankaranarayananâ€™s Ramasamy (SR) Method for Terahertz Generation. <i>Crystal Growth and Design</i> , 2019, 19, 6873-6892.	3.0	22
60	Growth, structural, linear, nonlinear optical and laser induced damage threshold studies of an organic compound: 2-Amino pyridinium-4-hydroxy benzoate. <i>Materials Letters</i> , 2019, 235, 35-38.	2.6	22
61	Nonlinear studies of Acid Fuchsin dye in liquid and solid media. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 69, 1160-1164.	3.9	21
62	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. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 402, 112794.	3.9	21
63	Effect of KDP on the growth, thermal and optical properties of l-alanine single crystals. <i>Arabian Journal of Chemistry</i> , 2016, 9, 676-680.	4.9	20
64	Synthesis, optical, experimental and theoretical investigation of third order nonlinear optical properties of 8-hydroxyquinolinium 2-carboxy-6-nitrophthalate monohydrate single crystal. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 113, 50-60.	4.0	20
65	Structural, thermal and electro-optical properties of guanidine based Metal-Organic Framework (MOF). <i>Chinese Journal of Physics</i> , 2020, 68, 764-777.	3.9	20
66	ð(3) measurement and optical power limiting behavior of manganese doped lithium tetraborate nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 931-936.	3.9	19
67	Studies on crystal growth and physical properties of 4-(dimethylamino)benzaldehyde-2,4-dinitroaniline single crystal. <i>Optical Materials</i> , 2016, 57, 163-168.	3.6	19
68	Third order nonlinear optical properties of monoclinic and orthorhombic CuNb ₂ O ₆ under CW laser illumination. <i>Optics and Laser Technology</i> , 2018, 108, 287-294.	4.6	19
69	Growth and characterization of organic material 3,4,5-trimethoxybenzaldehyde single crystal for optical applications. <i>Optics and Laser Technology</i> , 2019, 115, 500-507.	4.6	19
70	Visible light photocatalytic activity of Mn-doped BiFeO ₃ nanoparticles. <i>International Journal of Green Energy</i> , 2020, 17, 71-83.	3.8	19
71	Synthesis, growth, optical and third order nonlinear optical properties of l-Phenylalanine d-Mandelic acid single crystal for photonic device applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 20460-20471.	2.2	19
72	Piperazinium bis (5-chlorosalicylate) â€” A new third order nonlinear optical single crystal. <i>Journal of Molecular Structure</i> , 2021, 1228, 129728.	3.6	19

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73	Nonlinear studies of Pararosanilin dye in liquid and solid media. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 68, 1-5.	3.9	18
74	Crystal structure, growth and nonlinear optical studies of isonicotinamide p-nitrophenol: A new organic crystal for optical limiting applications. <i>Journal of Crystal Growth</i> , 2016, 448, 82-88.	1.5	18
75	Third harmonic generation and thermo-physical properties of benzophenone single crystal for photonic applications. <i>Materials Research Express</i> , 2017, 4, 106204.	1.6	18
76	Structural and third order nonlinear optical properties of Gd doped NiWO ₄ nanostructures. <i>Optical Materials</i> , 2018, 77, 148-153.	3.6	18
77	Growth and characterizaion of urea p-nitrophenol crystal: an organic nonlinear optical material for optoelectronic device application. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	18
78	Quantum chemical calculations, structural, spectral and nonlinear optical investigations of a novel crystal N,N- α -diphenylguanidinium 3,5-dichlorobenzoate. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 130, 69-83.	4.0	18
79	Growth and characterization of organic material 4-dimethylaminobenzaldehyde single crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 135, 959-964.	3.9	17
80	Analysis on linear and nonlinear optical properties of an efficient semi-organic crystal: Thiourea borate. <i>Optics and Laser Technology</i> , 2018, 107, 428-434.	4.6	17
81	Structural and non-linear optical response of Er ³⁺ doped SrMoO ₄ nanostructures. <i>Applied Surface Science</i> , 2019, 490, 260-265.	6.1	17
82	Crystal structure, spectroscopic, thermal, mechanical, linear optical, second order and third order nonlinear optical properties of semiorganic crystal: l-threoninium phosphate (LTP). <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 9003-9014.	2.2	17
83	Enhanced third-order nonlinear optical properties of high purity ZnS nanoparticles. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2015, 24, 1550016.	1.8	16
84	Growth and characterization of l-Serine: A promising acentric organic crystal. <i>Physica B: Condensed Matter</i> , 2018, 541, 32-42.	2.7	16
85	Growth and characterization of unidirectional benzil single crystal for photonic applications. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	2.2	16
86	Investigation on growth, structural, characterization and DFT computing of imidazolium 3-nitrobenzoate (I3NB) single crystal – Towards third order nonlinear optical applications. <i>Journal of Molecular Structure</i> , 2019, 1196, 720-733.	3.6	16
87	Vibrational spectra, dielectric properties, conductivity mechanisms and third order nonlinear optical properties of guanidinium 4-aminobenzoate. <i>Optical Materials</i> , 2019, 89, 48-62.	3.6	16
88	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.	2.6	16
89	Investigation on the structural and nonlinear optical properties of Pt doped TiO ₂ nanoparticles. <i>Materials Research Bulletin</i> , 2013, 48, 3037-3042.	5.2	15
90	Preparation and optical properties of cobalt doped lithium tetraborate nanoparticles. <i>Optical Materials</i> , 2014, 36, 1598-1603.	3.6	15

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91	Growth, structural and optical limiting property of a new third order nonlinear optical material: piperazinium bis (2-carboxypyridine) monohydrate. Journal of Materials Science: Materials in Electronics, 2019, 30, 9471-9488.	2.2	15
92	Synthesis, growth, structural and optical properties of a novel organic third order nonlinear optical crystal: Piperazinedium trichloroacetate. Journal of Molecular Structure, 2019, 1177, 579-593.	3.6	15
93	Multiple strong hydrogen bonded supramolecular cocrystals of 18-crown-6 with 5-nitroisophthalic acid: Solvent effect and optical nonlinearities. Journal of Molecular Structure, 2020, 1201, 127158.	3.6	15
94	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. Optics and Laser Technology, 2020, 122, 105849.	4.6	15
95	Bifunctional WO ₃ microrods decorated RGO composite as catechol sensor and optical limiter. Applied Surface Science, 2021, 536, 147669.	6.1	15
96	Low power optical limiting studies of copper doped lithium tetraborate nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 140, 288-293.	3.9	14
97	Low power optical limiting and thermal lensing in Mn doped ZnO nanoparticles. Materials Chemistry and Physics, 2015, 159, 93-100.	4.0	14
98	Non linear optical studies on semiorganic single crystal: L-arginine 4-nitrophenalate 4-nitrophenol dihydrate (LAPP). Optics and Laser Technology, 2017, 92, 168-172.	4.6	14
99	Growth and characterization of L-phenylalanine nitric acid (LPN) and tris L-(phenylalanine)-phenylalaninium nitrate (TPLPN) as second and third order nonlinear optical materials. Chinese Journal of Physics, 2018, 56, 721-739.	3.9	14
100	Structural, optical, dielectric, second and third-order nonlinear properties of new semiorganic crystal: Sodium (bis) boro succinate. Journal of Molecular Structure, 2019, 1177, 594-602.	3.6	14
101	Growth, Optical, Thermal, Mechanical, Laser Damage Threshold and Electrical Polarizability of Cadmium Chloride Doped L-Alanine (LACC) Single Crystal for Optoelectronic Applications. Journal of Electronic Materials, 2019, 48, 7915-7922.	2.2	14
102	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.	3.5	14
103	Linear and nonlinear optical properties of 2-Aminopyridinium fumarate fumaric acid single crystal for optoelectronic device applications. Chemical Physics Letters, 2021, 780, 138941.	2.6	14
104	Physicochemical properties of cesium tetroxalate dihydrate single crystal: An efficient material for nonlinear optical applications. Optical Materials, 2020, 107, 110033.	3.6	14
105	Synthesis and characterization of a novel NLO chalcone derivative: 1-(5-chlorothiophene-2-yl)-3-(4-methoxyphenyl) prop-2-en-1-one for nonlinear device application. Indian Journal of Physics, 2017, 91, 925-932.	1.8	13
106	Analysis on nonlinear optical properties of Cd (Zn) Se quantum dots synthesized using three different stabilizing agents. Optical Materials, 2017, 72, 821-827.	3.6	13
107	$\chi^{(3)}$ measurement and optical limiting behaviour of novel semi-organic cadmium mercury thiocyanate crystal by Z-scan technique. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	13
108	Synthesis, growth, crystal structure, thermal, linear and nonlinear optical analysis of new extended π -conjugated organic material based on methyl pyridinium compound of 4-(4-(4-(dimethylamino))) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 Structure, 2019, 1196, 699-706.	3.6	13

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109	Optical nonlinearities of centrosymmetric pure and cerium doped calcium tungstate dumbbell shaped nanoparticles. <i>Optical Materials</i> , 2020, 110, 110512.	3.6	13
110	Synthesis, structure, NBO, Hirshfeld surface, NMR, HOMO-LUMO, UV, photoluminescence, z scan, vibrational and thermal analysis of piperazinedi-ium tetrakis (1/4 Cl^-)-diaqua-dichloro-di-cadmium single crystal. <i>Journal of Molecular Structure</i> , 2022, 1258, 132685.	3.6	13
111	Influence of number and position of nitro groups in tuning the thermodynamic and nonlinear optical properties of ethylenediaminium nitrophenolates. <i>Journal of Molecular Liquids</i> , 2017, 238, 89-95.	4.9	12
112	Twisted intramolecular charge transfer investigation of semi organic L -Glutamic acid hydrochloride single crystal for organic light-emitting and optical limiting applications. <i>Journal of Molecular Structure</i> , 2018, 1156, 733-744.	3.6	12
113	Insight on the growth, mechanical, optical and thermal studies of pyrrolidinium 2-carboxy 6-nitrophthalate (PY3N) single crystal-An effective third-order nonlinear optical material for optical limiting applications. <i>Materials Research Express</i> , 2018, 5, 085101.	1.6	12
114	Photocatalytic degradation of acid red-85 dye by nickel substituted bismuth ferrite nanoparticles. <i>Materials Research Express</i> , 2019, 6, 084006.	1.6	12
115	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.	2.2	12
116	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.	2.2	12
117	A novel chlorocadmiate hybrid cocrystal delivering intermolecular charge transfer enhanced nonlinear optical properties and optical limiting. <i>Optical Materials</i> , 2021, 117, 111194.	3.6	12
118	Single crystal growth of bis guanidinium hydrogen phosphate monohydrate by Sankaranarayanan-Ramasamy method and investigation of its linear and nonlinear optical properties. <i>Journal of Crystal Growth</i> , 2016, 455, 90-93.	1.5	11
119	Synthesis and characterization of d10 metal complexes of 3-Me-5-FcPz: Structural, theoretical and third order nonlinear optical properties. <i>Journal of Molecular Structure</i> , 2017, 1128, 36-43.	3.6	11
120	Investigation on optical, thermal, mechanical, dielectric and ferroelectric properties of non linear optical single crystal guanidinium manganese sulphate. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 12526-12535.	2.2	11
121	Synthesis, crystal growth, and characterization of piperazinediium bis (4-aminobenzoate) dihydrate - An efficient third-order nonlinear optical single crystal for opto-electronic applications. <i>Chinese Journal of Physics</i> , 2019, 62, 223-239.	3.9	11
122	Crystal growth, optical, physico-chemical and third-order nonlinear optical studies of morpholinium oxalate: a new organic single crystal for optical limiting application. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	11
123	Cocrystallization of Paracetamol-Picric acid: Hirshfeld surface analysis, supramolecular architecture and third-order nonlinear optical properties. <i>Journal of Molecular Structure</i> , 2019, 1190, 1-10.	3.6	11
124	Proton-induced intermolecular charge transfer in Picolinium Tartrate Monohydrate crystal for OLED and nonlinear optical applications: A combined experimental and computational study. <i>Dyes and Pigments</i> , 2019, 165, 239-248.	3.7	11
125	Spectral and third order nonlinear optical properties of Yttrium-doped BaWO ₄ nanostructures. <i>Optical Materials</i> , 2019, 88, 466-471.	3.6	11
126	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.	3.6	11

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127	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.	3.9	11
128	Crystal growth, spectroscopic, optical, thermal and hirshfeld surface analysis of glycinium hydrogen fumarate glycine solvate monohydrate (GHFGSM): A third harmonic nonlinear optical organic crystal. Journal of Molecular Structure, 2020, 1213, 128187.	3.6	11
129	Third order nonlinear optical, spectral, dielectric, laser damage threshold, and photo luminescence characteristics of an efficacious semiorganic acentric crystal: L-Ornithine monohydrochloride. Chinese Journal of Physics, 2018, 56, 502-519.	3.9	10
130	Growth and characterization of a nonlinear optical material: l-alanine dl-mandelic acid hemihydrate. Journal of Materials Science: Materials in Electronics, 2018, 29, 15119-15129.	2.2	10
131	Studies on third order nonlinear optical properties of Nickel Boro Phthalate NLO crystal. Materials Research Express, 2019, 6, 116213.	1.6	10
132	Growth and characterization of Catena-(1/4-dihydrogen oxalate)-bis(1/3-hydrogen) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (oxalate) for nonlinear optical applications. Chinese Journal of Physics, 2020, 67, 37-51.	3.9	10
133	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.	3.9	10
134	Synthesis, structure, third-order nonlinear optical properties and Hirshfeld surface analysis of tetrakis(azepanium) hexachlorostannate(IV) dichloride and tetrakis(azepanium) hexabromostannate(IV) dibromide. Journal of Molecular Structure, 2021, 1227, 129515.	3.6	10
135	Investigation on nonlinear optical and antibacterial properties of organic single crystal: p-Toluidinium L-Tartrate. Chemical Data Collections, 2021, 31, 100640.	2.3	10
136	Supramolecular cocrystals of Oâ€”H...O hydrogen-bonded 18-crown-6 with isophthalic acid derivatives: Hirshfeld surface analysis and third-order nonlinear optical properties. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 241-251.	1.1	10
137	OPTICAL LIMITING CHARACTERISTICS OF CORE-SHELL NANOPARTICLES. Journal of Nonlinear Optical Physics and Materials, 2010, 19, 621-628.	1.8	9
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