S Sudhahar

List of Publications by Year
in descending order

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43	1,094	430874	414414
papers	citations	18 h-index	32 g-index

43	43	43	690
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Studies of the structural and third-order nonlinear optical properties of solution grown 4-hydroxy-3-methoxy-4â€²-Nâ€²-methylstilbazolium tosylate monohydrate crystals. Optical Materials, 2014, 36, 988-995.	3.6	122
2	Green synthesis of CuO nanoparticles via Allium sativum extract and its characterizations on antimicrobial, antioxidant, antilarvicidal activities. Journal of Environmental Chemical Engineering, 2020, 8, 104123.	6.7	119
3	Effect of cytotoxicity and aAntibacterial activity of biosynthesis of ZnO hexagonal shaped nanoparticles by Echinochloa frumentacea grains extract as a reducing agent. Materials Chemistry and Physics, 2020, 239, 121976.	4.0	80
4	Enhanced electrochemical studies of ZnO/CNT nanocomposite for supercapacitor devices. Physica B: Condensed Matter, 2019, 568, 51-59.	2.7	79
5	Green synthesis of Silver oxide nanoparticles using Zephyranthes Rosea flower extract and evaluation of biological activities. Journal of Environmental Chemical Engineering, 2020, 8, 104137.	6.7	78
6	Investigations on effect of graphitic carbon nitride loading on the properties and electrochemical performance of g-C3N4/TiO2 nanocomposites for energy storage device applications. Materials Science in Semiconductor Processing, 2021, 121, 105328.	4.0	44
7	Synthesis, crystal growth, structural, thermal, optical and mechanical properties of solution grown 4-methylpyridinium 4-hydroxybenzoate single crystal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 118, 929-937.	3.9	42
8	Green Synthesis of CuO nanoparticles via Plectranthus amboinicus leaves extract with its characterization on structural, morphological, and biological properties. Applied Nanoscience (Switzerland), 2020, 10, 3953-3971.	3.1	41
9	Crystal growth, structural, linear and nonlinear optical studies of 4-methyl-4â€²-Nâ€™-methylstilbazolium tosylate single crystals. Optik, 2014, 125, 751-755.	2.9	34
10	Physicochemical and DFT studies on new organic Bis-(2-amino-6-methylpyridinium) succinate monohydrate good quality single crystal for nonlinear optical applications. Journal of Molecular Structure, 2020, 1212, 128069.	3.6	32
11	Evaluations of biosynthesized Ag nanoparticles via Allium Sativum flower extract in biological applications. Applied Nanoscience (Switzerland), 2020, 10, 3675-3691.	3.1	30
12	Crystal growth, spectral, structural and optical studies of Ï€-conjugated stilbazolium crystal: 4-Bromobenzaldehyde-4â€²-Nâ€²-methylstilbazolium tosylate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 125, 79-89.	3.9	27
13	Celosia argentea leaf extract-mediated green synthesized iron oxide nanoparticles for bio-applications. Journal of Nanostructure in Chemistry, 2022, 12, 625-640.	9.1	27
14	Green synthesis of lanthanum oxide nanoparticles using Moringa oleifera leaves extract and its biological activities. Advanced Powder Technology, 2021, 32, 1963-1971.	4.1	26
15	Investigations and fabrication of Ni(OH)2 encapsulated carbon nanotubes nanocomposites based asymmetrical hybrid electrochemical supercapacitor. Journal of Energy Storage, 2020, 32, 101934.	8.1	23
16	Green synthesis of silver oxide nanoparticles using Panicum miliaceum grains extract for biological applications. Advanced Powder Technology, 2022, 33, 103645.	4.1	23
17	Studies on Structural, Spectral, and Optical Properties of Organic Nonlinear Optical Single Crystal: 2-Amino-4,6-dimethylpyrimidinium p-Hydroxybenzoate. Journal of Materials, 2013, 2013, 1-7.	0.1	21
18	Effect of Sm+ Rare Earth Ion on the Structural, Thermal, Mechanical and Optical Properties of Potassium Hydrogen Phthalate Single Crystals. Journal of Materials Science and Technology, 2014, 30, 13-18.	10.7	19

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19	Investigation of the optical, photoluminescence, and dielectric properties of P-Toludinium picrate single crystals. Chinese Journal of Physics, 2020, 67, 283-292.	3.9	19
20	Piperazinium bis (5-chlorosalicylate) â€“ A new third order nonlinear optical single crystal. Journal of Molecular Structure, 2021, 1228, 129728.	3.6	19
21	Synthesis, growth, structural, thermal and optical studies of pyrrolidinium-2-carboxylate-4-nitrophenol single crystals. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 145, 333-339.	3.9	17
22	Studies on synthesis, growth, structural, thermal, linear and nonlinear optical properties of organic picolinium maleate single crystals. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 98, 7-13.	3.9	15
23	Studies on structural, optical, homo-lumo and mechanical properties of piperazinium p-hydroxybenzoate monohydrate single crystal for nonlinear optical applications. Chemical Physics Letters, 2020, 758, 137934.	2.6	15
24	Zephyranthes candida flower extract mediated green synthesis of silver nanoparticles for biological applications. Advanced Powder Technology, 2021, 32, 4408-4419.	4.1	15
25	Synthesis, growth and physicochemical characterization of 8-hydroxyquinolinium 3,4 dimethoxybenzoate, a novel organic nonlinear optical single crystal. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	13
26	Investigations on structural, morphological and electrochemical properties of Co(OH)2 nanosheets embedded carbon nanotubes for supercapacitor applications. Diamond and Related Materials, 2020, 110, 108120.	3.9	12
27	Evolution of stability enhancement in organo-metallic halide perovskite photovoltaics-a review. Materials Today Communications, 2021, 27, 102159.	1.9	12
28	Green synthesis and characterization of CuO nanoparticles using Panicum sumatrense grains extract for biological applications. Applied Nanoscience (Switzerland), 2022, 12, 1993-2021.	3.1	12
29	Green synthesis and biomedical behavior of Mg-doped ZnO nanoparticle using leaf extract of Ficus religiosa. Ceramics International, 2022, 48, 24619-24628.	4.8	11
30	Growth, experimental and theoretical investigations on 4-hydroxy-3-methoxybenzaldehyde 5-chloro-2-hydroxybenzoic acid: A new high second order nonlinear optical material. Journal of Molecular Structure, 2020, 1217, 128406.	3.6	10
31	Studies of crystal growth, structural, spectral and optical properties of solution grown 2-phenylethylaminium p-nitrophenolate monohydrate single crystals for efficient nonlinear optical applications. Journal of Molecular Structure, 2021, 1225, 129304.	3.6	10
32	Crystal growth, structural, optical, thermal, and mechanical properties of new bis(2-amino-6-methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Chinese Journal of Physics, 2020, 68, 436-460.	3.9	9
33	Experimental and theoretical studies on 4-hydroxy-3-methoxybenzaldehyde nicotinamide organic co-crystal for third harmonic nonlinear optical applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 18937-18953.	2.2	9
34	Physicochemical and quantum chemical calculations on new bis (2-amino-6-methylpyridinium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 applications. Chinese Journal of Physics, 2021, 72, 100-125.	3.9	8
35	Experimental and theoretical studies on new 2-amino-6-methylpyridinium 2,4-dihydroxybenzoate monohydrate organic single crystal for second order nonlinear optical applications. Journal of Molecular Structure, 2022, 1254, 132330.	3.6	7
36	Environmental and biomedical applications in the synthesis and structural, optical, elemental characterizations of Mg doped ZnO nanoparticles using Coleus aromaticus leaf extract. South African Journal of Botany, 2022, 151, 290-300.	2.5	5

#	Article	IF	Citations
37	Investigation on Rare Earth Doped Nonlinear Optical Potassium Hydrogen Phthalate (KHP) Single Crystals. Advanced Materials Research, 2012, 584, 56-59.	0.3	2
38	Crystal growth and characterization of 2-amino-6-methylpyridinium p-chlorobenzoate dihydrate single crystal: a novel third-order nonlinear optical material for optoelectronic applications. Journal of Materials Science: Materials in Electronics, 2022, 33, 4598-4616.	2.2	2
39	Stoke shifted photoluminescence in Guanidinium lead halides for light emitting applications. Chemical Physics Letters, 2022, 800, 139693.	2.6	2
40	Investigations on Electrochemical Performance of Hausmannite Manganese Oxide Nanoparticles in KOH and Na2SO4 Electrolytes for Energy Storage Applications. Nano, 0, , .	1.0	1
41	Experimental and theoretical evaluation of a novel organic proton transfer crystal p-Toluidinium 5â€‘chloro-2-hydroxybenzoate for third order nonlinear optical applications. Chinese Journal of Physics, 2022, 75, 76-89.	3.9	1
42	Experimental and theoretical approach of novel third-order nonlinear optical single crystal: benzamide 5-chloro-2-hydroxybenzoic acid. Journal of Materials Science: Materials in Electronics, 2022, 33, 4579-4597.	2.2	1
43	Physicochemical and computational perspectives of 8-hydroxyquinoline 5-chloro-2-hydroxybenzoic acid: a novel second-order nonlinear optical crystal. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	0