

Madhangi M

List of Publications by Year in descending order

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331670

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1127
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#	ARTICLE	IF	CITATIONS
1	Synthesis, Growth, and Characterization of L-Proline Cadmium Chloride Monohydrate (L-PCCM) Crystals: A New Nonlinear Optical Material. <i>Crystal Growth and Design</i> , 2007, 7, 183-186.	3.0	89
2	Natural dye extract of lawsonia inermis seed as photo sensitizer for titanium dioxide based dye sensitized solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 128, 420-426.	3.9	86
3	Preparation and characterization of ZnO nanofibers by electrospinning. <i>Crystal Research and Technology</i> , 2006, 41, 446-449.	1.3	60
4	A new organic NLO material isonicotinamidium picrate (ISPA): crystal structure, structural modeling and its physico-chemical properties. <i>RSC Advances</i> , 2016, 6, 57977-57985.	3.6	54
5	Growth and characterization of new semiorganic nonlinear optical zinc guanidinium sulfate single crystal. <i>Journal of Crystal Growth</i> , 2009, 311, 2709-2713.	1.5	53
6	BIOSYNTHESIS AND CHARACTERIZATION OF GOLD NANOPARTICLES USING THE ALGA <i>Kappaphycus alvarezii</i> . <i>International Journal of Nanoscience</i> , 2010, 09, 511-516.	0.7	53
7	Studies on optical and mechanical properties of new organic NLO crystal: Guanidinium 4-aminobenzoate (GuAB). <i>Materials Letters</i> , 2011, 65, 2748-2750.	2.6	47
8	Conventional hydrothermal synthesis of titanate nanotubes: Systematic discussions on structural, optical, thermal and morphological properties. <i>Modern Electronic Materials</i> , 2017, 3, 174-178.	0.6	46
9	Hydrothermal synthesis and characterization of TiO ₂ nanostructures prepared using different solvents. <i>Materials Letters</i> , 2018, 220, 20-23.	2.6	38
10	Synthesis, growth and characterization of organic nonlinear optical bis-glycine maleate (BGM) single crystals. <i>Journal of Crystal Growth</i> , 2010, 312, 1855-1859.	1.5	35
11	Growth and physical properties of a new crystal for NLO applications: Bisguanidinium hydrogen phosphate monohydrate (G2HP). <i>Journal of Crystal Growth</i> , 2013, 362, 130-134.	1.5	34
12	Systematic discussions on structural, optical, mechanical, electrical and its application to NLO devices of a novel semi-organic single crystal: Guanidinium tetrafluoroborate (GFB). <i>Optics and Laser Technology</i> , 2018, 105, 249-256.	4.6	34
13	Studies on growth, spectral and mechanical properties of new organic NLO crystal: Guanidinium 4-nitrobenzoate (GuNB). <i>Journal of Crystal Growth</i> , 2013, 362, 304-307.	1.5	33
14	Electronic structure, vibrational spectral and intervening orbital interactions studies of NLO material: Guanidinium 4-nitrobenzoate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 139, 555-572.	3.9	29
15	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
16	Synthesis, growth, optimization, bulk SR method growth, fabrication of indigenous optical element and anisotropic studies on guanidinium L-monohydrogen tartrate (GuHT) single crystal for nonlinear optical device applications. <i>Journal of Crystal Growth</i> , 2015, 412, 40-48.	1.5	27
17	Growth, spectral, anisotropic, second and third order nonlinear optical studies on potential nonlinear optical crystal anilinium perchlorate (AP) for NLO device fabrications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 134, 517-525.	3.9	27
18	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

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19	Synthesis and characterization of CdS/TiO ₂ nanocomposite: Methylene blue adsorption and enhanced photocatalytic activities. <i>Vacuum</i> , 2019, 159, 476-481.	3.5	27
20	Synthesis, spectral analysis, optical and thermal properties of new organic NLO crystal: N,Nâ€²-Diphenylguanidinium Nitrate (DPGN). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 131, 17-21.	3.9	24
21	Green synthesis of Au and the impact of Au on the efficiency of TiO ₂ based dye sensitized solar cell. <i>Materials Science for Energy Technologies</i> , 2019, 2, 171-180.	1.8	24
22	Studies on growth, spectral, optical and mechanical properties of new organic NLO crystal: Guanidinium l-glutamate (GuGL). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 97, 741-745.	3.9	22
23	Growth and characterization of new semiorganic nonlinear optical single crystal L-Phenylalanine L-Phenylalaninium perchlorate (LPPAPC). <i>Materials Letters</i> , 2009, 63, 363-365.	2.6	21
24	Performance of Caesalpinia sappan heartwood extract as photo sensitizer for dye sensitized solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 137, 345-350.	3.9	21
25	Growth, linear and nonlinear optical studies on guanidinium 4-nitrobenzoate (GuNB): An organic NLO material. <i>Optik</i> , 2012, 123, 1153-1156.	2.9	20
26	Second- and third-order optical studies of 4-Bromoanilinium hydrogen phthalate single crystal for nonlinear optical device applications. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 115, 1139-1146.	2.3	19
27	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
28	Experimental and theoretical investigations on N,Nâ€²-diphenylguanidinium dihydrogen phosphite â€” A semi-organic nonlinear optical material. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 138, 340-347.	3.9	16
29	Synthesis, spectral, optical and electric studies of N,Nâ€²-diphenylguanidinium hydrogen (+)-l-tartrate monohydrateâ€”A new organic NLO crystal. <i>Optik</i> , 2015, 126, 68-73.	2.9	16
30	Growth and characterization of tris allylthiourea mercuric chloride crystals. <i>Crystal Research and Technology</i> , 2006, 41, 771-774.	1.3	14
31	Pre dye treated titanium dioxide nano particles sensitized by natural dye extracts of Pterocarpus marsupium for dye sensitized solar cells. <i>Optik</i> , 2015, 126, 1027-1031.	2.9	14
32	Growth, spectral, optical and thermal characterization of new metallorganic crystalâ€”Bisthiourea nickel chloride. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 74, 1005-1009.	3.9	13
33	Growth, spectroscopy properties and DFT based PCM calculations of guanidinium chlorochromate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 110, 255-261.	3.9	13
34	Crystal growth, thermal and optical studies on a metalorganic nonlinear optical material dipotassium boro maleate (DKBM). <i>Materials Letters</i> , 2010, 64, 1506-1509.	2.6	12
35	Self-assembled supramolecular synthons of 2,6 diaminopyridinium tosylate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 124, 871-879.	3.6	12
36	Synthesis and characterization of Znq2 and Znq2:CTAB particles for optical applications. <i>Bulletin of Materials Science</i> , 2017, 40, 1049-1053.	1.7	12

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37	Green synthesis of Ag and the effect of Ag on the efficiency of TiO ₂ based dye sensitized solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 15423-15434.	2.2	12
38	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
39	Growth and characterization of a novel organic nonlinear optical crystal guanidinium 4-hydroxybenzoate: Potential candidate for opto-electronic applications. <i>Materials Letters</i> , 2019, 241, 152-155.	2.6	10
40	Optimization of growth parameters and investigations on the physico-chemical properties of an organometallic guanidinium chromate single crystal for nonlinear optical and optical limiting applications. <i>Optical Materials</i> , 2020, 99, 109558.	3.6	10
41	Pre dye treated titanium dioxide nanoparticles synthesized by modified sol-gel method for efficient dye-sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 989-995.	2.3	9
42	Crystal structure, DFT and third order non-linear optical studies of an organic bisguanidinium isophthalate monohydrate single crystal. <i>Journal of Molecular Structure</i> , 2020, 1204, 127476.	3.6	9
43	Studies on the effect of nickel on growth, structural, optical, electrical, thermal and mechanical properties of l-arginine picrate. <i>Optik</i> , 2013, 124, 493-500.	2.9	8
44	A combined experimental and quantum chemical analysis to explore the nonlinear optical activity of guanidinium l-monohydrogen tartrate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 145, 417-424.	3.9	8
45	Influence of annealing temperature on structural, morphological and optical properties of CTAB assisted cadmium sulphide (CdS) quantum dots: promising candidate for quantum dot sensitized solar cell (QDSSC) applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 11317-11324.	2.2	8
46	Oleic acid capped cadmium sulphide (CdS) quantum dots: Discussions on synthesis, structural, optical and morphological behavior. <i>Materials Letters</i> , 2018, 220, 277-280.	2.6	8
47	Synthesis, crystal growth, optical, thermal, and mechanical properties of a nonlinear optical single crystal: ammonium sulfate hydrogen sulphamate (ASHS). <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	8
48	Green synthesis of Au and Au@TiO ₂ core-shell structure formation by hydrothermal method for dye sensitized solar cell applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 491-499.	2.2	8
49	Quantum chemical analysis on supramolecular assemblies of guanidinium tetrafluoroborate (GFB) crystal structure: Emission and NLO behavior. <i>Journal of Molecular Structure</i> , 2019, 1198, 126859.	3.6	8
50	GROWTH AND CHARACTERIZATION OF A NEW SEMI-ORGANIC NON-LINEAR OPTICAL CRYSTAL L-ARGININE HYDROCHLOROFLUORIDE MONOHYDRATE (LAHCIF). <i>Surface Review and Letters</i> , 2006, 13, 803-808.	1.1	7
51	Synthesis and growth of sodium bitartrate monohydrate a new organometallic nonlinear optical single crystal. <i>Current Applied Physics</i> , 2009, 9, 1125-1128.	2.4	7
52	Effect of Co ²⁺ on the growth and physical properties of potential nonlinear optical l-Asparagine picrate crystal. <i>Optik</i> , 2013, 124, 2696-2700.	2.9	7
53	Enhanced photovoltaic behavior of dye sensitized solar cells fabricated using pre dye treated titanium dioxide nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 146-153.	2.2	6
54	Effective chemical route for the synthesis of thiophenol stabilized cadmium sulphide (CdS) quantum dots: compact discussions on the structural, morphological, optical and dielectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 2899-2906.	2.2	6

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55	Habitual growth and its influence on the properties of anilinium perchlorate (AP) single crystal for nonlinear optical device applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 5718-5725.	2.2	4
56	Investigations on the growth, linear, nonlinear, dielectric tensor and thermal properties of an acidic molecule: diphenylacetic acid single crystal. <i>Journal of Optics (India)</i> , 2018, 47, 28-34.	1.7	4
57	Unveiling photophysical-chemical properties of ethylenediamine ditartrate dihydrate acentric single crystal: a proficient material for nonlinear optical application. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 11257-11268.	2.2	4
58	Physical and optical study of potassium-doped meta-Nitroaniline crystal (mNAK). <i>Journal of Nonlinear Optical Physics and Materials</i> , 2014, 23, 1450012.	1.8	3
59	Corrigendum to "Natural dye extract of lawsonia inermis seed as photo sensitizer for titanium dioxide based dye sensitized solar cells" [Spectrochim. Acta A Mol. Biomol. Spectrosc. 128 (2014) 420-426]. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 143, 324.	3.9	3
60	Synthesis, structural, optical and thermal studies on 3,5-diethyl-2, 6-di (4-methoxyphenyl)-4-oxopiperidinium chloride. <i>Journal of Molecular Structure</i> , 2016, 1123, 238-244.	3.6	3
61	Development of optical element on bulk bisguanidinium hydrogen phosphate monohydrate single crystal for nonlinear optical device applications. <i>Journal of Optics (India)</i> , 2017, 46, 368-374.	1.7	3
62	Growth, piezoelectric study and particle size dependent SHG of an 80µm long SR grown imidazolium l-tartrate single crystals. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
63	Synthesis, structural, optical and thermal studies on 3, 5-diethyl-2, 6-di (4-fluorophenyl)-4-oxopiperidinium chloride. <i>Journal of Molecular Structure</i> , 2017, 1129, 32-36.	3.6	2
64	Synthesis, growth, frontier molecular orbitals, fracture mechanics and nonlinear optical studies of l-serine methyl ester hydrochloride single crystal. <i>Journal of Optics (India)</i> , 2018, 47, 374-379.	1.7	2
65	Crystalline perfection, optical and piezoelectric properties of a novel semi-organic single crystal: Zinc guanidinium sulphate. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
66	GROWTH AND CHARACTERIZATION OF NEW NONLINEAR OPTICAL SINGLE CRYSTALS OF 3-AMINOPHENOL ORTHOPHOSPHORIC ACID (3-AMPHPH). <i>Modern Physics Letters B</i> , 2012, 26, 1150038.	1.9	1
67	Electronic, nonlinear optical and optical limiting properties of 2-amino-3-propanoic 4-methylbenzenesulfonate (2A3PMS) single crystal. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1
68	Growth, optimized molecular geometry, natural bonding orbitals and dielectric studies of imidazolium diphenylacetate diphenylacetic acid single crystal. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
69	Investigation on optical and mechanical properties of an organic single crystal: Guanidinium 4-aminobenzene sulfonate. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
70	Crystal growth, optical and orbital molecular study of a promising semi-organic nonlinear optical material: L-histidinium tetrafluoroborate (LHTF). <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
71	Growth, optimized molecular geometry, natural bonding orbitals and electronic study of organic single crystal: Iminomethanediamine tosylate. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
72	Discussion on growth, emission and piezoelectric properties of zinc guanidinium phosphate single crystal: a potential candidate for transducer and LED applications. <i>Bulletin of Materials Science</i> , 2019, 42, 1.	1.7	0

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73	Enhanced morphology of l-histidinium 4-methylbenzene sulfonate via recrystallization and study on its physio-chemical properties. Journal of Materials Science: Materials in Electronics, 2020, 31, 5635-5646.	2.2	0
74	Discussion on spectral, electrical and third-order nonlinear optical susceptibility of semi-organic tris(cyclohexylammonium) tris(o-chlorobenzoate) dihydrate single crystal. Journal of Materials Science: Materials in Electronics, 2021, 32, 141-150.	2.2	0
75	Quantitative and qualitative analysis on a dielectric material: Guanidine chromate single crystal for the fabrication of photonic applications. AIP Conference Proceedings, 2020, , .	0.4	0
76	Electronic, nonlinear optical and optical limiting properties of 2-amino-3-(1H-imidazole-4-yl) propanoic tetrafluoroborate (2A3PT) single crystal. AIP Conference Proceedings, 2020, , .	0.4	0