

Selvaraju K

List of Publications by Year in descending order

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769
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#	ARTICLE	IF	CITATIONS
1	Structural and spectroscopic studies on concentration dependent Sm ³⁺ doped boro-tellurite glasses. Journal of Alloys and Compounds, 2013, 553, 273-281.	2.8	89
2	Structural and luminescence investigations on Sm ³⁺ doped sodium fluoroborate glasses containing alkali/alkaline earth metal oxides. Physica B: Condensed Matter, 2011, 406, 548-555.	1.3	87
3	Structural and spectroscopic studies on concentration dependent Er ³⁺ doped boro-tellurite glasses. Journal of Luminescence, 2012, 132, 1171-1178.	1.5	77
4	L-Cystine hydrochloride: A novel semi-organic nonlinear optical material for optical devices. Optics Communications, 2007, 269, 230-234.	1.0	71
5	Structural and spectroscopic studies on Er ³⁺ doped boro-tellurite glasses. Physica B: Condensed Matter, 2012, 407, 1086-1093.	1.3	56
6	Synthesis, growth, structural, spectroscopic and optical studies of a new semiorganic nonlinear optical crystal: L-Valine hydrochloride. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 69, 1283-1286.	2.0	49
7	Thermal, structural and spectroscopic investigations on Eu ³⁺ doped boro-tellurite glasses. Materials Chemistry and Physics, 2011, 131, 204-210.	2.0	47
8	Growth and characterization of sulphamic acid single crystals: A nonlinear optical material. Materials Chemistry and Physics, 2006, 97, 81-84.	2.0	40
9	A new metal-organic crystal: Potassium thiourea chloride. Materials Letters, 2007, 61, 751-753.	1.3	29
10	Structural, morphological, optical, and photoluminescence properties of nanocrystalline PbS thin films grown by chemical bath deposition. Arabian Journal of Chemistry, 2017, 10, 1167-1174.	2.3	29
11	Synthesis growth and characterization of L-Valinium Picrate a new nonlinear optical crystal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 71, 288-291.	2.0	26
12	Preparation of nanocrystalline Cd-doped PbS thin films and their structural and optical properties. Journal of Taibah University for Science, 2017, 11, 1296-1305.	1.1	26
13	Experimental determination of metastable zonewidth, induction period, interfacial energy and growth of non-linear optical L-Glutamic Acid Hydrochloride single crystals. Materials Letters, 2006, 60, 1565-1569.	1.3	23
14	New nonlinear optical material: Glycine Hydrofluoride. Materials Letters, 2006, 60, 2848-2850.	1.3	23
15	Growth and characterization of a new metal-organic nonlinear optical bis (thiourea) cadmium zinc chloride single crystals. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 71, 1-4.	2.0	20
16	Growth and characterization of a new metal-organic crystal: Potassium thiourea iodide. Materials Letters, 2006, 60, 3130-3132.	1.3	19
17	Enhancement of second harmonic generation efficiency, laser damage threshold and optical properties of cobalt chloride doped with L-alanine single crystal. Journal of Nonlinear Optical Physics and Materials, 2016, 25, 1650017.	1.1	17
18	Synthesis, growth and characterization of a nonlinear optical crystal: L-Leucinium perchlorate. Journal of Taibah University for Science, 2017, 11, 11-17.	1.1	17

#	ARTICLE	IF	CITATIONS
19	Structural, optical, laser damage, NLO and theoretical analysis of l-histidine l-aspartate monohydrate crystals. <i>Physica B: Condensed Matter</i> , 2020, 592, 412245.	1.3	16
20	Growth and characterization of cobalt thiourea sulfate, a new nonlinear optical material. <i>Materials Letters</i> , 2007, 61, 4173-4176.	1.3	15
21	Studies on growth and characterization of l-alanine strontium chloride trihydrate single crystals for optical applications. <i>Optik</i> , 2014, 125, 4265-4269.	1.4	14
22	GROWTH AND CHARACTERIZATION OF GLYCINE HYDROBROMIDE SINGLE CRYSTAL FOR NONLINEAR OPTICAL APPLICATIONS. <i>Modern Physics Letters B</i> , 2008, 22, 2035-2042.	1.0	13
23	Composition dependent spectroscopic properties of Er ³⁺ -doped borosulfate glasses. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 607-615.	0.8	13
24	Synthesis, crystal growth and characterization of novel semiorganic nonlinear optical crystal: Dichloro(beta-alanine)cadmium(II). <i>Optik</i> , 2014, 125, 5144-5147.	1.4	13
25	Investigations on the nucleation kinetics of bis glycine sodium nitrate. <i>Journal of Crystal Growth</i> , 2008, 310, 2859-2862.	0.7	10
26	Assembly of favorable 2D Co-N4-based polymer nanosheets for proficient oxygen reduction reaction. <i>Ionics</i> , 2019, 25, 5939-5947.	1.2	10
27	Investigation on the nucleation kinetics of l-arginine acetate single crystals. <i>Materials Letters</i> , 2007, 61, 3041-3044.	1.3	9
28	Synthesis, growth and characterization of a nonlinear optical crystal: Bis l-proline hydrogen nitrate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 115, 537-543.	2.0	9
29	Investigations of solid state, optical, NLO, dielectric and mechanical behaviour of Methyl para-Hydroxybenzoate crystal. <i>Optik</i> , 2021, 226, 165738.	1.4	9
30	Studies on the growth aspects of semi-organic cadmium zinc thiourea acetate: A promising new NLO crystal. <i>Materials Letters</i> , 2008, 62, 7-10.	1.3	8
31	Crystal growth, structural, nonlinear, optical and theoretical investigations of L-histidinium trichloroacetate single crystals. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	0.8	8
32	Studies on the growth and characterization of meta-Nitroaniline single crystals. <i>Materials Letters</i> , 2005, 59, 1173-1177.	1.3	7
33	Experimental determination of metastable zone width, induction period, interfacial energy and growth of nonlinear optical Hippuric acid single crystal. <i>Materials Letters</i> , 2006, 60, 1549-1553.	1.3	7
34	Experimental and theoretical investigations of 4-hydroxy L-proline cadmium chloride nonlinear optical crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 212, 61-70.	2.0	7
35	Studies on L-cystine hydrobromide single crystals for nonlinear optical applications. <i>Journal of Taibah University for Science</i> , 2018, 12, 64-68.	1.1	6
36	45 keV N ⁵⁺ ions induced spikes on CdS thin films: Morphological, structural and optical properties. <i>Applied Surface Science</i> , 2018, 449, 233-238.	3.1	6

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37	Nucleation kinetics, Williamson-Hall analysis, hardness and dielectric properties of pyridine-2-carboxylictrichloroacetate single crystals. <i>Physica B: Condensed Matter</i> , 2022, 624, 413397.	1.3	6
38	Construction of light-weight and flexible vanadium nitride coated graphite paper electrodes for supercapacitors. <i>Ionics</i> , 2022, 28, 2513-2524.	1.2	6
39	SYNTHESIS, GROWTH, STRUCTURAL, SPECTROSCOPIC, OPTICAL, THERMAL AND MECHANICAL STUDIES OF A SEMI-ORGANIC NONLINEAR OPTICAL CRYSTAL: L-GLUTAMIC ACID HYDROCHLORIDE. <i>Modern Physics Letters B</i> , 2009, 23, 861-869.	1.0	5
40	Effect of N-benzoyl-d-phenylalanine on streptozotocin-induced changes in the lipid and lipoprotein profile in rats. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 57, 359-366.	1.2	5
41	Synthesis, growth and theoretical investigations of L-methionine L-methioninium perchlorate monohydrate a nonlinear optical crystal. <i>Chemical Data Collections</i> , 2019, 22, 100247.	1.1	5
42	Theoretical crystal structure prediction of aminosalicic acid: Charge density topological and electrostatic analyses. <i>Journal of Molecular Structure</i> , 2020, 1213, 128139.	1.8	5
43	Investigations on the nucleation kinetics of methyl-para-hydroxy benzoate single crystals. <i>Physica B: Condensed Matter</i> , 2008, 403, 1860-1862.	1.3	4
44	Growth, structural, spectroscopic and optical studies of pure and amino acid (glycine) doped methyl-para-hydroxy benzoate single crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 72, 687-690.	2.0	4
45	DFT and experimental prediction of negative chemical shifts of methyl protons in some piperidines. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 97, 942-947.	2.0	4
46	Studies on an L-leucine hydriodide semiorganic crystal for frequency conversion applications. <i>Materials Research Express</i> , 2016, 3, 035101.	0.8	4
47	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
48	1-Acetyl-r-2,c-6-di-2-furyl-3,5-dimethylpiperidin-4-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, o789-o791.	0.2	3
49	Benzyl group conformation in 4-benzyl-4-hydroxypiperidines. <i>Journal of Structural Chemistry</i> , 2007, 48, 1036-1045.	0.3	3
50	Unexpected shielding of methyl group protons in some piperidines. <i>Magnetic Resonance in Chemistry</i> , 2008, 46, 256-260.	1.1	3
51	INVESTIGATION ON THE PHYSICOCHEMICAL PROPERTIES OF NONLINEAR OPTICAL SINGLE CRYSTAL: 2-NAPHTHALENOL. <i>Modern Physics Letters B</i> , 2009, 23, 1221-1227.	1.0	2
52	Growth and characterization of 2-amino-5-bromopyridinium-4-hydroxybenzoate crystals for nonlinear optical and antioxidant applications. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2018, 27, 1850002.	1.1	2
53	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
54	SYNTHESIS AND CHARACTERIZATION OF SOME NOVEL CHALCONE DERIVATIVES. <i>Rasayan Journal of Chemistry</i> , 2018, 11, 1501-1505.	0.2	2

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55	Titanium oxynitride coated graphite paper electrodes for light-weight supercapacitors. Journal of Materials Science: Materials in Electronics, 2022, 33, 9669-9678.	1.1	2
56	1-Acetyl-3-ethyl-r-2,c-6-di-2-furylpiperidin-4-one. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o2005-o2006.	0.2	1
57	N-Benzoyl-r-2,c-6-di-2-furyl-t-3-methylpiperidin-4-one. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o2909-o2909.	0.2	1
58	STUDIES ON GROWTH AND CHARACTERIZATION OF BIS THIOUREA LEAD CHLORIDE: A NOVEL NONLINEAR OPTICAL CRYSTAL. Journal of Nonlinear Optical Physics and Materials, 2009, 18, 153-159.	1.1	1
59	Crystal structure of bis(4-acetylanilinium) tetrachloridocobaltate(II). Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, m221-m222.	0.2	1
60	Increasing ABB FlexPicker Robot's Degree of Freedom (DOF) using Flexible End Effector. MATEC Web of Conferences, 2016, 78, 01056.	0.1	1
61	Theoretical Investigation on Growth Kinetics and Thermodynamic Properties of Pyridine-2-Carboxylic Acid Crystals. Mechanics and Mechanical Engineering, 2019, 23, 23-27.	0.2	1
62	Investigation on Nucleation Kinetics, Growth and Nonlinear Optical Properties of L-Cystine Hydrochloride Crystal. Acta Physica Polonica A, 2018, 133, 63-67.	0.2	1
63	Crystal growth, physico-chemical and quantum chemical investigations on Butyl para-hydroxybenzoate single crystals for optical applications. Journal of Molecular Structure, 2022, 1250, 131739.	1.8	1
64	Crystal growth, structural, optical and theoretical investigations of organic nonlinear optical crystal: 2-naphthalenol. Molecular Crystals and Liquid Crystals, 2020, 712, 43-61.	0.4	1
65	Spectroscopic Studies on Eu[^{sup 3+}] Doped Boro-Tellurite Glasses. , 2011, , .		0
66	Crystal structure of bis(4-acetylanilinium) tetrachloridomercurate(II). Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, m236-m237.	0.2	0
67	Experimental and DFT computational studies of L-alanine cadmium chloride crystals. International Journal of Computational Materials Science and Engineering, 2016, 05, 1630001.	0.5	0
68	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
69	SYNTHESIS AND SPECTRAL CHARACTERIZATION OF SOME NOVEL N-ACYL-PIPERIDIN-4-ONES. Rasayan Journal of Chemistry, 0, , .	0.2	0
70	CONFORMATIONAL STUDIES OF SOME N-ACYL-3-ETHYLPYPERIDIN-4-ONES. Rasayan Journal of Chemistry, 2018, 11, 962-966.	0.2	0
71	GROWTH AND CHARACTERIZATION OF COBALT AND SULPHAMIC ACID DOPED AMMONIUM DIHYDROGEN ORTHOPHOSPHATE: A POTENTIAL NONLINEAR OPTICAL MATERIAL. Rasayan Journal of Chemistry, 2019, 12, 1783-1791.	0.2	0