

N Vijayan

List of Publications by Year in descending order

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papers

1,009
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471509

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#	ARTICLE	IF	CITATIONS
1	A Comparative Study on Solution- and Bridgman-Grown Single Crystals of Benzimidazole by High-Resolution X-ray Diffractometry, Fourier Transform Infrared, Microhardness, Laser Damage Threshold, and Second-Harmonic Generation Measurements. <i>Crystal Growth and Design</i> , 2006, 6, 1542-1546.	3.0	164
2	Growth, optical, thermal and mechanical studies of methyl 4-hydroxybenzoate single crystals. <i>Journal of Crystal Growth</i> , 2003, 256, 174-182.	1.5	47
3	Synthesis, Characterization, and Studies of PVA/Co-Doped ZnO Nanocomposite Films. <i>International Journal of Green Nanotechnology</i> , 2012, 4, 408-416.	0.3	45
4	Growth, structural and mechanical analysis of a single crystal of L-prolinium tartrate: a promising material for nonlinear optical applications. <i>CrystEngComm</i> , 2014, 16, 9245-9254.	2.6	42
5	Key aspects of L-threoninium picrate single crystal: an excellent organic nonlinear optical material with a high laser-induced damage threshold. <i>RSC Advances</i> , 2014, 4, 56188-56199.	3.6	42
6	Ab-initio study of L-Tartaric Acid (LTA) single crystal for NLO application. <i>Optics and Laser Technology</i> , 2015, 74, 53-59.	4.6	41
7	Crystalline perfection, Raman, UV-VIS-NIR and prism coupler investigations on Cz-grown pure and Zn-doped LiNbO ₃ single crystals. <i>CrystEngComm</i> , 2012, 14, 3297.	2.6	37
8	Optical, dielectric and surface studies on solution grown benzimidazole single crystals. <i>Materials Letters</i> , 2008, 62, 1252-1254.	2.6	34
9	Single crystal growth of ninhydrin by unidirectional Sankaranarayanan-Ramasamy (SR) method by using a glass ampoule for nonlinear optical applications. <i>CrystEngComm</i> , 2013, 15, 2127.	2.6	31
10	Growth, molecular structure, NBO analysis and vibrational spectral analysis of L-tartaric acid single crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 123, 127-141.	3.9	28
11	Nucleation kinetics, growth, mechanical, thermal and optical characterization of sulphamic acid single crystal. <i>CrystEngComm</i> , 2013, 15, 10034.	2.6	26
12	Synthesis and single crystal growth of L-proline cadmium chloride monohydrate and its characterization for higher order harmonic generation applications. <i>CrystEngComm</i> , 2014, 16, 2802.	2.6	26
13	Investigation on structural, optical, thermal, mechanical and dielectric properties of L-proline cadmium chloride monohydrate single crystals: An efficient NLO material. <i>Materials Chemistry and Physics</i> , 2013, 142, 154-164.	4.0	25
14	Assessment of the imperative features of an L-arginine 4-nitrophenolate 4-nitrophenol dihydrate single crystal for non linear optical applications. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1107-1117.	5.9	25
15	Bulk growth of ninhydrin single crystals by solvent evaporation method and its characterization for SHG and THG applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 122, 309-314.	3.9	22
16	Comprehensive study on L-Proline Lithium Chloride Monohydrate single crystal: A semiorganic material for nonlinear optical applications. <i>Arabian Journal of Chemistry</i> , 2019, 12, 3193-3201.	4.9	22
17	Enhancement in crystalline perfection and optical properties of benzophenone single crystals: the remarkable effect of a liquid crystal. <i>Journal of Applied Crystallography</i> , 2011, 44, 839-845.	4.5	20
18	The effect of Co-60 gamma irradiation on optical properties of some nonlinear optical (NLO) single crystals. <i>Journal of Optics (India)</i> , 2012, 41, 158-166.	1.7	19

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19	Synthesis, crystal growth and mechanical properties of Bismuth Silicon Oxide (BSO) single crystal. <i>Journal of Alloys and Compounds</i> , 2014, 588, 242-247.	5.5	17
20	Dielectric and structural studies on sulphamic acid (SA) single crystal. <i>Materials Letters</i> , 2007, 61, 3480-3485.	2.6	16
21	Effect of ampoule support on the growth of organic benzimidazole single crystals by vertical Bridgman technique for nonlinear optical applications. <i>CrystEngComm</i> , 2016, 18, 4844-4850.	2.6	16
22	Growth of a bulk-size single crystal of sulphamic acid by an in-house developed seed rotation solution growth technique and its characterization. <i>Journal of Applied Crystallography</i> , 2017, 50, 763-768.	4.5	16
23	Investigation on the key aspects of L-arginine para nitrobenzoate monohydrate single crystal: A non-linear optical material. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 701-708.	3.5	16
24	Phase matching, X-Ray topography, optical and thermal analysis of L-alanine cadmium chloride monohydrate: a nonlinear optical material. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 1257-1265.	2.3	14
25	Assessment of optical, mechanical and nonlinear properties of potassium acid phthalate single crystal: a potential candidate for optoelectronic applications. <i>Materials Research Express</i> , 2020, 7, 015705.	1.6	14
26	An efficient piezoelectric single-crystal L-argininium phosphite: structural, Hirshfeld, electrical and mechanical analyses for NLO applications. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	13
27	Bulk growth of Iminodiacetic acid single crystal and its characterization for nonlinear optical applications. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	1.7	13
28	Investigation on synthesis, growth, Hirshfeld surface and third order nonlinear optical properties of Urea-Succinic Acid single crystal: A potential candidate for self-defocusing lasing application. <i>Optical Materials</i> , 2022, 124, 112051.	3.6	13
29	Analyses of significant features of L-Prolinium Picrate single crystal: An excellent material for non linear optical applications. <i>Materials Chemistry and Physics</i> , 2017, 194, 90-96.	4.0	12
30	Crystalline perfection, thermal, mechanical and optical investigations on solution grown L-arginine monohydrochloride single crystal. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 4306-4312.	2.2	11
31	Evaluation of structural, optical and mechanical behaviour of L-argininium bis(trifluoroacetate) single crystal: An efficient organic material for second harmonic generation applications. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 129, 401-412.	4.0	11
32	In-depth behavioral study of L-Prolinium Trichloroacetate single crystal: An efficient candidate for NLO applications. <i>Arabian Journal of Chemistry</i> , 2019, 12, 4887-4896.	4.9	11
33	Assessment on third order non linearity and other optical analyses of L-Asparagine Monohydrate single crystal: An efficient candidate for harmonic conversions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 151, 419-425.	3.9	10
34	Growth, optical, mechanical and thermal studies of diglycine cadmium chloride single crystal. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 1225-1232.	3.6	8
35	Sulphamic acid: potential single crystal for nonlinear optical applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 14271-14278.	2.2	8
36	Synthesis growth and studies on optical, thermal and terahertz analyses of bulk size sodium acid phthalate single crystal: a metal-organic material for nonlinear optical applications. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 1167-1175.	3.6	8

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37	Effect of shock wave on optical properties of Propyl p-hydroxybenzoate single crystal: A self-defocusing third order nonlinear optical material. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 167, 110768.	4.0	8
38	Structural, optical, mechanical and dielectric studies of pure and doped L-Prolinium Trichloroacetate single crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 137, 601-606.	3.9	7
39	An in-depth study into the growth aspects and characteristic properties of ethyl 4-amino benzoate: a potential candidate for electro-optical applications. <i>New Journal of Chemistry</i> , 2017, 41, 10908-10918.	2.8	7
40	Growth of L-asparagine monohydrate and its structural, optical, mechanical, thermal and electrical studies for nonlinear optical applications. <i>Materials Research Express</i> , 2019, 6, 125119.	1.6	7
41	Single crystal growth of l-tartaric acid and its characterization for optical applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 4494-4502.	2.2	7
42	<i>In situ</i> growth of an ethyl p-hydroxybenzoate single crystal by the vertical Bridgman technique: a potential nonlinear optical material for third-harmonic generation. <i>Journal of Applied Crystallography</i> , 2021, 54, 1340-1348.	4.5	7
43	X-ray topography, photopyroelectric and two-photon absorption studies on solution grown benzimidazole single crystal. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 55-58.	2.3	6
44	Synthesis and growth of l-tyrosine hydrobromide and its characterization for optoelectronic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 18524-18532.	2.2	5
45	Analysis of mechanical behaviour of L-arginine hydrobromide monohydrate (LAHBr) single crystal grown by unidirectional growth technique. <i>Materials Research Express</i> , 2019, 6, 126215.	1.6	4
46	Studies on the third-order nonlinear behaviour of Itaconic acid single crystal using femto-second laser. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 3247-3254.	2.2	4
47	Role of Indian Reference Materials for the Calibration of Sophisticated Instruments. <i>Mapan - Journal of Metrology Society of India</i> , 2022, 37, 505-510.	1.5	4
48	Synthesis, growth, and characterization of iminodiacetic acid monohydrochloride. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 112, 1113-1119.	3.6	3
49	Crystalline perfection, thermal, optical and dielectric studies on organic L-alanine L-alaninium picrate monohydrate single crystals. <i>Materials Research Innovations</i> , 2016, 20, 138-144.	2.3	3
50	Growth and Characterization of Single Crystals of l-Histidine Hydrochloride Monohydrate for Nonlinear Optical Applications. <i>Journal of Electronic Materials</i> , 2020, 49, 7502-7508.	2.2	3
51	Elemental, Optical, and Time-Domain Terahertz Spectroscopy Studies on Methyl p-Hydroxybenzoate Single Crystal for THz Applications. <i>Journal of Electronic Materials</i> , 2021, 50, 6121-6127.	2.2	3
52	Investigation on unidirectionally grown potassium acid phthalate single crystal by Sankaranarayanan-Ramasamy (SR) method for optical applications. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	3
53	Significance of Reference Materials for Calibration of Powder X-ray Diffractometer. <i>Mapan - Journal of Metrology Society of India</i> , 2021, 36, 201-210.	1.5	2
54	Influence of l-Phenylalanine doping on potassium dihydrogen phosphate: crystal growth, structural, optical and mechanical traits. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 5698-5712.	2.2	2

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55	A comparative analysis of chromium doped l-alanine cadmium chloride monohydrate single crystal using X-ray diffraction, thermal and optical techniques for nonlinear optical applications. Optik, 2016, 127, 3723-3726.	2.9	1
56	Structure, luminescence and photoconductivity studies of piperazine tartrate single crystals grown from aqueous solution. AIP Conference Proceedings, 2019, , .	0.4	0