

Jayarama A

List of Publications by Year in descending order

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52
papers

828
citations

516215

16
h-index

500791

28
g-index

52
all docs

52
docs citations

52
times ranked

669
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen bonded nonlinear optical β -glycine: Crystal growth and characterization. Journal of Crystal Growth, 2005, 280, 581-586.	0.7	86
2	Synthesis, growth and characterization of π conjugated organic nonlinear optical chalcone derivative. Materials Chemistry and Physics, 2013, 138, 179-185.	2.0	80
3	Synthesis, growth, structural characterization, Hirshfeld analysis and nonlinear optical studies of a methyl substituted chalcone. Journal of Molecular Structure, 2017, 1136, 244-252.	1.8	55
4	Effect of Aluminium doping on photoluminescence and third-order nonlinear optical properties of nanostructured CdS thin films for photonic device applications. Physica B: Condensed Matter, 2019, 555, 145-151.	1.3	52
5	Growth, characterization and structural investigation of a novel nonlinear optical crystal. Journal of Molecular Structure, 2013, 1031, 79-84.	1.8	46
6	Second and third order nonlinear optical studies of a novel thiophene substituted chalcone derivative. Physica B: Condensed Matter, 2019, 555, 125-132.	1.3	39
7	Structural characteristics and second harmonic generation in l-threonine crystals. Journal of Crystal Growth, 2006, 286, 451-456.	0.7	37
8	Synthesis, crystal growth and characterization of a D- π -A type novel organic nonlinear optical single crystal. Journal of Crystal Growth, 2014, 402, 130-137.	0.7	37
9	Pore size tuning of Nafion membranes by UV irradiation for enhanced proton conductivity for fuel cell applications. International Journal of Hydrogen Energy, 2019, 44, 23762-23774.	3.8	34
10	Synthesis, growth, and characterization of 3-(4-Methoxyphenyl)-1-(pyridin-2-yl) prop-2-en-1-one single crystal: A potential NLO material. Journal of Molecular Structure, 2013, 1051, 285-291.	1.8	33
11	Investigation of third-order nonlinear optical properties of nanostructured Ni-doped CdS thin films under continuous wave laser illumination. Journal of Materials Science: Materials in Electronics, 2019, 30, 6993-7004.	1.1	29
12	Synthesis, growth, and characterization of a new NLO material 3-(2,3-dimethoxyphenyl)-1-(pyridin-2-yl)prop-2-en-1-one. Journal of Molecular Structure, 2012, 1007, 175-178.	1.8	26
13	Role of direction of charge transfer on the nonlinear optical behavior of pyridine substituted chalcone derivatives. Journal of Molecular Structure, 2014, 1075, 246-253.	1.8	26
14	Crucial role of molecular planarity on the second order nonlinear optical property of pyridine based chalcone single crystals. Journal of Molecular Structure, 2015, 1088, 85-94.	1.8	26
15	Structure and Characterization of a Novel Chalcone Crystal Having Nitro as an Acceptor Group. Molecular Crystals and Liquid Crystals, 2015, 607, 200-214.	0.4	21
16	Structural distortion in thiourea-mixed ADP crystals. Applied Surface Science, 2006, 253, 944-949.	3.1	18
17	Crystal growth, characterization, structural characteristics and second harmonic generation in N-benzoyl glycine crystals. Materials Chemistry and Physics, 2009, 113, 91-95.	2.0	16
18	Structural, thermal, linear and nonlinear optical studies of an organic optical limiter based on reverse saturable absorption. Journal of Molecular Structure, 2016, 1119, 167-176.	1.8	16

#	ARTICLE	IF	CITATIONS
19	Improved nonlinear optical absorption mechanism and susceptibility ($\chi^{(3)}$) of CdS nanostructured thin films: Role of zinc doping. <i>Materials Science in Semiconductor Processing</i> , 2021, 121, 105400.	1.9	16
20	Piezoelectric P(VDF-TrFE) micro cantilevers and beams for low frequency vibration sensors and energy harvesters. <i>Sensors and Actuators A: Physical</i> , 2019, 295, 574-585.	2.0	14
21	Structural and vibrational characteristics of a non-linear optical material 3-(4-nitrophenyl)-1-(pyridine-3-yl) prop-2-en-1-one probed by quantum chemical computation and spectroscopic techniques. <i>Journal of Molecular Structure</i> , 2018, 1164, 180-190.	1.8	12
22	Power enhancement of passive micro-direct methanol fuel cells with self-sulfonation of P(VDF-TrFE) copolymer during lamination on Nafion membrane. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30375-30387.	3.8	12
23	A novel bromo-substituted thiophene based centrosymmetric crystals: Thermal, mechanical, and third order NLO properties for the optical limiting applications. <i>Physica B: Condensed Matter</i> , 2020, 585, 412083.	1.3	11
24	Methanol crossover reduction and power enhancement of methanol fuel cells with polyvinyl alcohol coated Nafion membranes. <i>Materials Today: Proceedings</i> , 2021, 35, 344-351.	0.9	11
25	Optimum hydrogen flowrates and membrane-electrode clamping pressure in hydrogen fuel cells with dual-serpentine flow channels. <i>Materials Today: Proceedings</i> , 2021, 35, 412-416.	0.9	9
26	Role of UV irradiated Nafion in power enhancement of hydrogen fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 25596-25607.	3.8	8
27	Novel benzofuran based chalcone material for potential nonlinear optical application. <i>Physica B: Condensed Matter</i> , 2019, 560, 191-196.	1.3	7
28	Investigation of structural, physical, linear, and nonlinear optical properties of two novel thiophene centred D- π -A type push-pull organic derivatives for nonlinear optical applications. <i>Journal of Molecular Structure</i> , 2020, 1220, 128763.	1.8	6
29	Structural, morphological and optical properties of barium doped bismuth ferrite thin films deposited by spray pyrolysis. <i>Materials Today: Proceedings</i> , 2021, 35, 440-444.	0.9	6
30	(2E)-1-(5-Chlorothiophen-2-yl)-3-(2,3-dimethoxyphenyl)prop-2-en-1-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o2665-o2665.	0.2	5
31	Role of UV irradiation of Nafion membranes on ionic groups responsible for proton conduction and mechanical strength: A FTIR spectroscopic analysis. <i>Materials Today Communications</i> , 2020, 25, 101471.	0.9	5
32	The significant role of molecular dipole arrangements on the second and third-order nonlinear optical properties of a furan based chalcone. <i>Physica B: Condensed Matter</i> , 2020, 599, 412501.	1.3	3
33	Role of Zn in tuning the structural, morphological and optical properties of V2O5 nanostructures deposited by spray pyrolysis. <i>Materials Today: Proceedings</i> , 2021, 35, 469-473.	0.9	3
34	Simulation and analysis of P(VDF-TrFE) cantilever-beams for low frequency applications. <i>Materials Today: Proceedings</i> , 2021, 35, 392-395.	0.9	3
35	Structural, linear and nonlinear optical properties of Cd $_{1-x}$ Al $_x$ S semiconductor nanostructures: Influence of film thickness. <i>Materials Today: Proceedings</i> , 2021, 35, 483-488.	0.9	3
36	3-[4-(Dimethylamino)phenyl]-1-(3-pyridyl)prop-2-en-1-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2009, 65, o1066-o1066.	0.2	3

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37	Development of novel porous membrane for filtration of dump yard ground water contaminants. Materials Today: Proceedings, 2021, 35, 405-408.	0.9	2
38	Structure and property relationship of methoxy substituted novel organic crystals for photonic applications. Materials Today: Proceedings, 2021, 35, 366-373.	0.9	2
39	Investigation of physical, spectral and thermal properties of a dimethoxy substituted chalcone for opto-electronic device applications. Materials Today: Proceedings, 2021, 35, 374-377.	0.9	2
40	Preparation, characterization and study on the nonlinear optical parameters of novel biphenyl-4-carbohydrazide derivative. Materials Today: Proceedings, 2021, 35, 478-482.	0.9	2
41	Structural, linear and nonlinear optical characterization of Ni and Al Co-Doped CdO semiconductor nanostructures for nonlinear optical device applications. Materials Today: Proceedings, 2021, 35, 396-404.	0.9	2
42	(2E)-1-(5-Chlorothiophen-2-yl)-3-(2,4,5-trimethoxyphenyl)prop-2-en-1-one. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o2086-o2086.	0.2	1
43	Synthesis, growth, Hirshfeld surface analysis and crystal structure of a pyridine based chalcone single crystal. Materials Today: Proceedings, 2021, 35, 387-391.	0.9	1
44	Thermal, mechanical and linear optical studies of pyridine based trimethoxy substituted chromophore for NLO applications. Materials Today: Proceedings, 2021, 35, 465-468.	0.9	1
45	Novel methyl furan based chalcone material for potential nonlinear optical applications. Materials Today: Proceedings, 2021, 35, 409-411.	0.9	1
46	Synthesis, growth and NLO studies of a novel pyridine centered chalcone derivative. Materials Today: Proceedings, 2021, 35, 423-426.	0.9	0
47	Third order non linear optical properties of novel furan based organic crystal. Materials Today: Proceedings, 2021, 35, 427-430.	0.9	0
48	Crystalline and optical properties of new synthesized chalcone compound (2E)-1-(4-bromobiphenyl-4-yl)-3-(2,3-dichlorophenyl)prop-2-en-1-one. Materials Today: Proceedings, 2021, 35, 501-505.	0.9	0
49	Synthesis, growth and structural characterization of 1-(furan-2-yl)-3-(2,4,6-trimethoxyphenyl)prop-2-en-1-one crystal. Materials Today: Proceedings, 2021, 35, 431-435.	0.9	0
50	The pivotal role of the pyridine ring in enhancing second order nonlinearity in methoxy substituted chalcones. Materials Today: Proceedings, 2021, 35, 445-449.	0.9	0
51	3-(3,4-Dimethoxyphenyl)-1-(3-pyridyl)prop-2-en-1-one monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o1065-o1065.	0.2	0
52	Optical and photoluminescence studies of precursor stabilised Aluminium-Gallium Zinc oxide thin films. Materials Today: Proceedings, 2022, , .	0.9	0