

P Sagayaraj

List of Publications by Year in descending order

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55
papers

808
citations

471509

17
h-index

552781

26
g-index

56
all docs

56
docs citations

56
times ranked

732
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal growth, optical, mechanical and electrical properties of organic NLO material β -glycine. <i>Crystal Research and Technology</i> , 2006, 41, 671-677.	1.3	81
2	β -Phenylalanine-phenylalaninium bromide " a new nonlinear optical material. <i>CrystEngComm</i> , 2014, 16, 7979.	2.6	66
3	Growth and Characterization of a Novel Organometallic Nonlinear Optical Crystal: Bis(Thiourea) Cadmium Formate. <i>Crystal Growth and Design</i> , 2006, 6, 2607-2610.	3.0	51
4	Investigation on the growth of DAST crystals of large surface area for THz applications. <i>Materials Chemistry and Physics</i> , 2012, 132, 610-617.	4.0	41
5	Growth and characterization of dichloro tetrakis thiourea nickel single crystals. <i>Crystal Research and Technology</i> , 2006, 41, 1082-1088.	1.3	31
6	Growth, thermal, and optical properties of L-asparagine monohydrate NLO single crystal. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 114, 1153-1159.	3.6	31
7	Influence of oleic acid on the nucleation and growth of 4-N,N-dimethylamino-4-N-methyl-stilbazoliumtosylate (DAST) crystals. <i>CrystEngComm</i> , 2015, 17, 1989-1996.	2.6	29
8	Photocatalytic water splitting of TiO ₂ nanotubes powders prepared via rapid breakdown anodization sensitized with Pt, Pd and Ni nanoparticles. <i>Materials Technology</i> , 2018, 33, 288-300.	3.0	28
9	Growth and characterization of pure and doped NLO L-arginine acetate single crystals. <i>Bulletin of Materials Science</i> , 2009, 32, 431-435.	1.7	27
10	Synthesis of TiO ₂ nanorods by oriented attachment using EDTA modifier: a novel approach towards 1D nanostructure development. <i>Journal of Nanoparticle Research</i> , 2010, 12, 2875-2882.	1.9	26
11	Growth, structural, optical and thermal properties of potential THz material: N,N-dimethylamino- β -methylstilbazolium 4-styrenesulphonate. <i>Journal of Crystal Growth</i> , 2012, 338, 170-176.	1.5	26
12	Investigation on the role of cost effective cathode materials for fabrication of efficient DSSCs with TiNT/TiO ₂ nanocomposite photoanodes. <i>Solar Energy Materials and Solar Cells</i> , 2017, 165, 72-81.	6.2	22
13	Growth and Optical Studies of a Novel Organometallic Complex NLO Crystal: Tetrathiourea Cadmium(II) Tetrathiocyanato Zinc(II). <i>Materials and Manufacturing Processes</i> , 2007, 22, 370-374.	4.7	19
14	Optical Based Electrical Properties of Thiourea Borate NLO Crystal for Electro-Optic Q Switches. <i>Journal of Electronic Materials</i> , 2019, 48, 5632-5639.	2.2	19
15	Bulk size crystal growth, spectroscopic, dielectric and surface studies of 4-N,N-dimethylamino-4-N-methylstilbazolium m-nitrobenzenesulfonate (DSMNS): A potential THz crystal of stilbazolium family. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 957-964.	3.9	18
16	Study of Optical, Electrical, and Magnetic Properties of Tetrakis Thiourea Nickel Chloride Single Crystals. <i>Materials and Manufacturing Processes</i> , 2007, 22, 346-350.	4.7	17
17	Growth, optical, thermal, and conductivity behavior of nonlinear optical single crystals of CdHg(SCN) ₄ (CH ₃ OC ₂ H ₅ O). <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 1491-1497.	3.6	17
18	A comparative study on the morphological features of highly ordered titania nanotube arrays prepared via galvanostatic and potentiostatic modes. <i>Current Applied Physics</i> , 2014, 14, 868-875.	2.4	17

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19	Growth, linear and nonlinear optical properties of a DSSS crystal. CrystEngComm, 2014, 16, 6889-6895.	2.6	17
20	Room Temperature Hydrogen Sensing of Pt Loaded TiO ₂ Nanotubes Powders Prepared via Rapid Breakdown Anodization. Journal of the Electrochemical Society, 2016, 163, B15-B18.	2.9	17
21	Crystal growth, spectral, optical, and thermal characterization of glycyl-L-alanine hydrochloride (GLAH) single crystal. Journal of Thermal Analysis and Calorimetry, 2012, 110, 873-878.	3.6	16
22	A critical review on the variations in anodization parameters toward microstructural formation of TiO ₂ nanotubes. Electrochemical Science Advances, 2022, 2, e202100083.	2.8	15
23	Bulk size crystal growth and physicochemical properties of ionic organic NLO crystal of DSMOS: A potential THz emitter. Materials Chemistry and Physics, 2012, 136, 379-385.	4.0	14
24	Synthesis, growth, crystal structure, thermal, linear and nonlinear optical analysis of new extended π-conjugated organic material based on methyl pyridinium compound of 4-(4-(4-(dimethylamino)) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 Structure, 2019, 1196, 699-706.	3.6	13
25	Investigating the photocatalytic degradation property of Pt, Pd and Ni nanoparticles-loaded TiO ₂ nanotubes powder prepared via rapid breakdown anodization. Environmental Technology (United Kingdom), 2018, 39, 2994-3005.	2.2	12
26	Crystal growth and characterization of 4-[4-(4-dimethylamino-phenyl) buta-1,3-dienyl]-1-methyl pyridinium iodide for higher order non-linear applications. Optics and Laser Technology, 2020, 121, 105831.	4.6	12
27	Electrocatalytic Investigation of Group X Metal Nanoparticles Loaded TiO ₂ Nanotubes Powder Prepared by Rapid Breakdown Anodization for Selective H ₂ O ₂ Sensing. Journal of the Electrochemical Society, 2017, 164, B356-B365.	2.9	11
28	Investigation on growth of 4-N, N-dimethylamino-N ⁺ -methylstilbazolium p-chlorobenzenesulfonate: An efficient organic NLO crystal with potential THz properties. Optik, 2014, 125, 3791-3797.	2.9	10
29	Enhanced Photocatalytic Degradation of Phenol Using Urchin-Like ZnO Microrod-Reduced Graphene Oxide Composite under Visible-Light Irradiation. Journal of Nanomaterials, 2021, 2021, 1-11.	2.7	9
30	Studies on the growth and characterization of novel organometallic NLO crystal: Cd(HCOO) ₂ ·2CS(NH ₂) ₂ . Journal of Materials Science: Materials in Electronics, 2009, 20, 299-302.	2.2	8
31	A novel two-phase thermal approach for synthesizing CdSe/CdS core/shell nanostructure. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	8
32	Linear and nonlinear optical, mechanical, electrical and surface studies of a novel nonlinear optical crystal " Manganese mercury thiocyanate (MMTC). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 133, 241-249.	3.9	8
33	Synthesis, growth and characterization of a new acentric 4-[4-(4-dimethylamino-phenyl)buta-1,3-dienyl]-1-methyl pyridinium <i>i</i> -chlorobenzenesulfonate dihydrate crystal for nonlinear optical applications. New Journal of Chemistry, 2018, 42, 18865-18872.	2.8	7
34	Influence of noble metal loading and effect of temperature on the hydrogen sensing behavior of the platinum sensitized titania nanotubes. Materials Research Express, 2019, 6, 015006.	1.6	7
35	Comparative Studies on the Aqueous Synthesis and Biocompatibility of L-Cysteine and Mercaptopropionic Acid Capped CdSe/CdS/ZnS Core/Shell/Shell Quantum Dots. Journal of Nanoscience and Nanotechnology, 2019, 19, 3334-3342.	0.9	6
36	Structural, mechanical, thermal, electrical, second- and third-order nonlinear optical characteristics of MCBT NLO crystal for optoelectronics device and laser applications. Bulletin of Materials Science, 2021, 44, 1.	1.7	6

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37	Thermal, Optical, and Electrical Properties of Gel Grown ZMTC. Materials and Manufacturing Processes, 2007, 22, 351-356.	4.7	5
38	Synthesis and characterization of one dimensional semiconducting nanorods and nanobelts. Transactions of the Indian Institute of Metals, 2011, 64, 217-220.	1.5	5
39	Structural, optical and thermal characteristics of a novel orthorhombic l-proline thiourea monohydrate. Journal of Thermal Analysis and Calorimetry, 2012, 110, 891-895.	3.6	5
40	Growth and characterization of pure and doped nonlinear optical l-arginine acetate single crystals. Crystal Research and Technology, 2007, 42, 948-954.	1.3	4
41	Chemo-resistive detection of hydrogen in argon using Pd nanoparticles on TiO ₂ nanotubes prepared via rapid breakdown anodization. Materials Research Express, 2019, 6, 095065.	1.6	4
42	Analysis on Dielectric, Thermal, and Mechanical Characteristics of Nickel Boro Phthalate NLO Crystal for Optoelectronic Applications. Crystal Research and Technology, 2021, 56, 2000247.	1.3	4
43	Performance of Natural Dye Extracted from Annatto, Black Plum, Turmeric, Red Spinach, and Cactus as Photosensitizers in TiO ₂ NP/TiNT Composites for Solar Cell Applications. Journal of Nanomaterials, 2021, 2021, 1-12.	2.7	4
44	Investigation on nucleation, growth and physical properties of low soluble 4-N, N-dimethylamino-4-Na ⁺ -methylstilbazolium 4-aminotoluene-3-sulfonate crystal " A potential NLO material. Journal of Molecular Structure, 2021, 1241, 130669.	3.6	4
45	Novel Two-Step Approach for the Synthesis of Cadmium Selenide/Zinc Sulfide Core/Shell Nanocomposites with Precursor Injection Technique. Spectroscopy Letters, 2015, 48, 213-216.	1.0	2
46	Crystal structure of bis(thiocyanato- μ S)bis(thiourea- μ S)mercury(II). Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, m28-m29.	0.5	2
47	Mechanical and Optical Analyses of Cadmium Mercury Thiocyanate Single Crystal. Spectroscopy Letters, 2015, 48, 74-77.	1.0	2
48	Facile Synthesis of rGO/Mn ₃ O ₄ Composite for Efficient Photodegradation of Phenol under Visible Light. Journal of Nanomaterials, 2021, 2021, 1-11.	2.7	2
49	A Comparative Study of Nanostructures of CuO/Cu ₂ O Fabricated via Potentiostatic and Galvanostatic Anodization. Journal of Nanomaterials, 2021, 2021, 1-8.	2.7	2
50	Investigations on the physicochemical properties of thiocyanate and allylthiourea complex crystals for blue-violet laser light generation. Journal of Materials Science: Materials in Electronics, 2009, 20, 390-394.	2.2	1
51	Investigation on the facile methods for the synthesis and characterization of CdSe/ZnSe core/shell nanocomposites. , 2013, , .		0
52	Surface characterization of rapidly grown TiO ₂ nanotubes assisted by field supporting effect. AIP Conference Proceedings, 2015, , .	0.4	0
53	Structural and electrical properties of organic stilbazolium single crystal of DSCHS. AIP Conference Proceedings, 2016, , .	0.4	0
54	Crystal structures of two stilbazole derivatives: bis{(E)-4-[4-(diethylamino)styryl]-1-methylpyridin-1-ium} tetraiodidocadmium(II) and (E)-4-[4-(diethylamino)styryl]-1-methylpyridin-1-ium 4-methoxybenzenesulfonate monohydrate. Acta Crystallographica Section E: Crystallographic Communications, 2018, 74, 1891-1894.	0.5	0

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55	Crystal structure determination of two pyridine derivatives: 4-[(<i>E</i>)-2-(4-methoxyphenyl)ethenyl]-1-methylpyridin-1-ium hexafluoro- $\hat{\text{I}}^{\text{6}}$ -phosphane and 4-[(<i>E</i>)-2-[4-(dimethylamino)phenyl]ethenyl]-1-phenyl-1 $\hat{\text{I}}^{\text{5}}$ -pyridin-1-ylum hexafluoro- $\hat{\text{I}}^{\text{6}}$ -phosphane. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2019, 75, 288-291.	0.5	0