

Aravindan Gurusamy

List of Publications by Year in descending order

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257357

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Growth and characterization of semi-organic third order nonlinear optical (NLO) potassium 3,5-dinitrobenzoate (KDNB) single crystals. RSC Advances, 2016, 6, 109105-109123.	1.7	140
2	The growth of benzophenone crystals by Sankaranarayananâ€™s Ramasamy (SR) method and slow evaporation solution technique (SEST): A comparative investigation. Materials Research Bulletin, 2012, 47, 826-835.	2.7	75
3	Synthesis, Crystal Growth, and Characterization of an Organic Nonlinear Optical Donor-â€™Acceptor Single Crystal: 2-Amino-5-nitropyridinium-Toluenesulfonate. Crystal Growth and Design, 2009, 9, 3333-3337.	1.4	46
4	Investigations on the growth, optical behaviour and factor group of an NLO crystal: Lâ€™alanine alaninium nitrate. Crystal Research and Technology, 2007, 42, 1097-1103.	0.6	43
5	Synthesis, crystal growth, physicochemical properties and quantum chemical investigations of a Dâ€™A type organic single crystal: 2-amino-5-nitropyridinium p-phenolsulfonate (2A5NPP) for nonlinear optical (NLO) applications. CrystEngComm, 2017, 19, 5662-5678.	1.3	43
6	Synthesis, optical and thermal properties of novel Tb ³⁺ doped RbCaF ₃ fluoroperovskite phosphors. Journal of Alloys and Compounds, 2016, 683, 654-660.	2.8	42
7	Facile synthesis of tungsten carbide nanorods and its application as counter electrode in dye sensitized solar cells. Materials Science in Semiconductor Processing, 2015, 39, 292-299.	1.9	39
8	Growth, Hirshfeld surfaces, spectral, quantum chemical calculations, photoconductivity and chemical etching analyses of nonlinear optical p-toluidine p-toluenesulfonate single crystal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 206, 340-349.	2.0	38
9	Etching and dielectric studies on L-lysine monohydrochloride dihydrate single crystal. Crystal Research and Technology, 2006, 41, 906-910.	0.6	37
10	Bulk growth, crystalline perfection and optical characteristics of inversely soluble lithium sulfate monohydrate single crystals grown by the conventional solvent evaporation and modified Sankaranarayananâ€™s Ramasamy method. CrystEngComm, 2016, 18, 2072-2080.	1.3	36
11	Synthesis, crystal growth and characterization of an organic material: 2-Aminopyridinium succinate succinic acid single crystal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 150, 765-771.	2.0	35
12	Studies on the structural, thermal and optical behaviour of solution grown organic NLO material: 8-hydroxyquinoline. Crystal Research and Technology, 2007, 42, 195-200.	0.6	34
13	Solâ€™gel synthesized mesoporous anatase titanium dioxide nanoparticles for dye sensitized solar cell (DSSC) applications. Bulletin of Materials Science, 2015, 38, 291-296.	0.8	33
14	Growth and characterization of sulphamic acid single crystals grown by Sanakaranarayanan-Ramasamy (SR) method. Crystal Research and Technology, 2007, 42, 39-43.	0.6	32
15	Crystal growth, spectral, optical, laser damage, photoconductivity and dielectric properties of semiorganic l-cystine hydrochloride single crystal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 151, 432-437.	2.0	31
16	Growth of New Nonlinear Optical Crystals of Hydrochlorides of l-Histidine from Solution. Crystal Growth and Design, 2006, 6, 1876-1880.	1.4	30
17	Growth, thermal, dielectric and mechanical studies of triglycine zinc chloride, a semiorganic nonlinear optical material. Materials Letters, 2010, 64, 1-3.	1.3	30
18	Dysprosium activated strontium aluminate phosphor: A potential candidate for WLED applications. Journal of Luminescence, 2020, 223, 117126.	1.5	30

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19	Structural, optical, thermal, photoconductivity, laser damage threshold and fluorescence analysis of an organic material: β -P-amino benzoic acid single crystal. <i>Optical Materials</i> , 2016, 52, 49-55.	1.7	29
20	Size-dependent photovoltaic performance of cadmium sulfide (CdS) quantum dots for solar cell applications. <i>Journal of Alloys and Compounds</i> , 2018, 735, 202-208.	2.8	29
21	Growth, structural, thermal, optical, and electrical properties of potassium succinate succinic acid crystal. <i>Journal of Materials Science</i> , 2014, 49, 3598-3607.	1.7	28
22	Thermoluminescence dosimetric characteristics on cubic fluoroperovskite single crystal (KMgF ₃ :Eu ²⁺ , Ce ³⁺). <i>Optical Materials</i> , 2015, 45, 224-228.	1.7	27
23	Growth of ADP KDP mixed crystal and its optical, mechanical, dielectric, piezoelectric and laser damage threshold studies. <i>Journal of Crystal Growth</i> , 2013, 362, 338-342.	0.7	26
24	Synthesis and characterizations of large surface tungsten oxide nanoparticles as a novel counter electrode for dye-sensitized solar cell. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 75, 487-494.	1.1	25
25	Synthesis of nanocrystalline TiO ₂ nanorods via hydrothermal method: An efficient photoanode material for dye sensitized solar cells. <i>Journal of Crystal Growth</i> , 2017, 468, 125-128.	0.7	25
26	Donor functionalized quinoline based organic sensitizers for dye sensitized solar cell (DSSC) applications: DFT and TD-DFT investigations. <i>Journal of Molecular Modeling</i> , 2018, 24, 343.	0.8	25
27	The effect of different π -bridge configuration on bi-anchored triphenylamine and phenyl modified triphenylamine based dyes for dye sensitized solar cell (DSSC) application: A theoretical approach. <i>Journal of Molecular Graphics and Modelling</i> , 2018, 79, 235-253.	1.3	24
28	Structural, vibrational, Hirshfeld surfaces and optical studies of nonlinear optical organic imidazolium L-tartrate single crystal. <i>Journal of Molecular Structure</i> , 2019, 1179, 506-513.	1.8	24
29	Synthesis, Growth and Characterization of 1H-Benzimidazolium Hydrogen L-Tartrate Dihydrate Single Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 548, 126-141.	0.4	23
30	Directional growth, physicochemical and quantum chemical investigations on pyridinium 2-carboxylate: 4-nitrophenol (P2C4N) single crystal for nonlinear optical (NLO) applications. <i>New Journal of Chemistry</i> , 2018, 42, 4261-4277.	1.4	23
31	Synthesis, growth, structure and spectroscopic characterization of a new organic nonlinear optical hydrogen bonding complex crystal: 3-Carboxyl anilinium p-toluene sulfonate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 125, 114-119.	2.0	22
32	Study on structural, morphological, optical and thermal properties of guanidine carbonate doped nickel sulfate hexahydrate crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 134, 345-349.	2.0	22
33	Bulk growth of organic non-linear optical (NLO) L-arginine 4-nitrophenolate 4-nitrophenol dihydrate (LAPP) single crystals by Sankaranarayanan-Ramasamy (SR) method. <i>Materials Research Innovations</i> , 2017, 21, 426-433.	1.0	22
34	Photovoltaic performance of Pb-doped CdS quantum dots for solar cell application. <i>Materials Letters</i> , 2018, 220, 74-77.	1.3	22
35	Synthesis, growth and characterization of single crystals of pure and thiourea doped L-glutamic acid hydrochloride. <i>Crystal Research and Technology</i> , 2007, 42, 78-83.	0.6	21
36	Growth of TGS crystals using uniaxially solution-crystallization method of Sankaranarayanan-Ramasamy. <i>Crystal Research and Technology</i> , 2007, 42, 151-156.	0.6	21

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37	Growth and characterization of pure and doped KHP NLO single crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 127, 248-255.	2.0	21
38	Studies on the crystal growth, crystal structure, optical and thermal properties of an organic crystal: Benzophenone hydrazone. <i>Journal of Crystal Growth</i> , 2009, 311, 3461-3465.	0.7	19
39	Synthesis, growth, spectral, and thermal studies of a new organic molecular charge transfer complex crystal: 3-Nitroaniline 4-methyl benzene sulfonate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 122, 436-440.	2.0	19
40	The Influence of Multiple-Heaters on the Reduction of Impurities in mc-Si for Directional Solidification. <i>Silicon</i> , 2019, 11, 1335-1344.	1.8	19
41	Numerical modelling on stress and dislocation generation in multi-crystalline silicon during directional solidification for PV applications. <i>Electronic Materials Letters</i> , 2016, 12, 431-438.	1.0	18
42	Investigations on the SR method growth, etching, birefringence, laser damage threshold and dielectric characterization of sodium acid phthalate single crystals. <i>Journal of Crystal Growth</i> , 2011, 318, 757-761.	0.7	17
43	Synthesis, crystal growth, and physicochemical characterization of 4-aminopyridinium 4-nitrophenolate 4-nitrophenol (4AP4NP) single crystals for NLO applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 6141-6157.	1.1	17
44	Growth and characterization of ammonium acid phthalate single crystals. <i>Optical Materials</i> , 2013, 35, 1151-1156.	1.7	16
45	Optimizing Structural, Microhardness, Surface Growth Mechanism, Luminescence and Thermal Traits of KH_2PO_4 Crystal Exploiting Multidirectional H-Bonding Quality of Dopant Tartaric Acid. <i>Crystal Research and Technology</i> , 2018, 53, 1700165.	0.6	16
46	Enhancement of stability of growth, structural and NLO properties of KDP crystals due to additive along with seed rotation. <i>Crystal Research and Technology</i> , 2009, 44, 54-60.	0.6	15
47	Growth of É> 8-hydroxyquinoline organic crystal by Czochralski method and its characterizations. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 1333-1339.	2.0	15
48	Studies on the nonlinear optical single crystal: Ammonium d,l-tartrate ($C_4H_9NO_6$). <i>Materials Research Bulletin</i> , 2012, 47, 708-713.	2.7	15
49	Growth and characterization of propyl-para-hydroxybenzoate single crystals. <i>Bulletin of Materials Science</i> , 2014, 37, 1461-1469.	0.8	15
50	Synthesis of porous titanium dioxide nanorods/nanoparticles and their properties for dye sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 2609-2613.	1.1	15
51	Investigations of tungsten carbide nanostructures treated with different temperatures as counter electrodes for dye sensitized solar cells (DSSC) applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 7977-7986.	1.1	15
52	Crystal growth, physical properties and computational insights of semi-organic non-linear optical crystal diphenylguanidium perchlorate grown by conventional solvent evaporation method. <i>Journal of Crystal Growth</i> , 2018, 483, 16-25.	0.7	15
53	Enhanced electrochemical and photovoltaic performance for MoO_3 nanorods at different calcination temperature based counter electrode in Pt-free dye-sensitized solar cells applications. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	15
54	Effects of 50 MeV Si ion irradiation on nonlinear optical benzimidazole single crystals. <i>Crystal Research and Technology</i> , 2007, 42, 1376-1381.	0.6	14

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55	Effect of KCl on the bulk growth KDP crystals by Sankaranarayanan-Ramasamy method. <i>Materials Chemistry and Physics</i> , 2009, 113, 622-625.	2.0	14
56	Growth, structural, optical, thermal, laser damage threshold and theoretical investigations of organic nonlinear optical 2-aminopyridinium 4-nitrophenolate 4-nitrophenol (2AP4N) single crystal. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1553-1570.	1.1	14
57	Crystal growth, optical, thermal, laser damage threshold, photoconductivity and third-order nonlinear optical studies of KCl doped sulphamic acid single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 6084-6096.	1.1	14
58	Investigation on the solubility, crystal growth, optical, laser damage threshold, NLO, photoluminescence and dielectric properties of pure and cadmium (Cd^{2+})-doped lithium sulfate monohydrate single crystals. <i>Materials Research Innovations</i> , 2017, 21, 27-32.	1.0	13
59	Tuning the lifetime from molecular engineering of carbazole donor based metal-free organic dyes for dye sensitized solar cells – A computational approach. <i>Journal of Molecular Structure</i> , 2019, 1195, 494-505.	1.8	13
60	Investigation of crystal growth, structural, optical, dielectric, mechanical and thermal properties of a novel organic crystal: 4,4'-dimethylbenzophenone. <i>Journal of Crystal Growth</i> , 2008, 310, 3561-3567.	0.7	12
61	Synthesis, crystal structure, spectral and thermal properties of 4-dimethylaminopyridinium salicylate monohydrate. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 111, 1165-1173.	1.1	12
62	Determination of Nucleation Kinetics and Crystal Perfection, Optical, Piezoelectric Properties of Semi-organic NLO Single Crystal-Sodium Acid Phthalate Hemihydrate. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2017, 27, 1383-1390.	1.9	12
63	Crystal growth, structural, optical, thermal and dielectric studies of non-linear optical 2-amino-5-nitropyridinium nitrate (2A5NPN) single crystals. <i>Materials Research Innovations</i> , 2018, 22, 128-136.	1.0	12
64	Evidence for Spin Glass Transition in Hexagonal DyMnO_3 without Substitutional Disorder. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30499-30508.	1.5	12
65	Studies on the growth and characterizations of 2-amino 4-methylpyridinium tartrate monohydrate single crystals. <i>Optik</i> , 2015, 126, 2348-2353.	1.4	11
66	Mesoporous TiO_2 microspheres synthesized via a facile hydrothermal method for dye sensitized solar cell applications. <i>Journal of Porous Materials</i> , 2016, 23, 1483-1487.	1.3	11
67	Growth and characterization of organic molecular single crystal ethyl p-amino benzoate by selective self seeding from vertical Bridgman technique. <i>Journal of Crystal Growth</i> , 2010, 312, 2423-2426.	0.7	10
68	Thermal and FTIR spectral studies of various proportions of zinc magnesium ammonium sulfate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 112, 1031-1037.	2.0	10
69	Synthesis, crystal growth and characterizations of bis (l-proline) cadmium iodide: a new semi-organic nonlinear optical material. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	10
70	Investigations on the growth, optical, thermal, dielectric, and laser damage threshold properties of crystal violet dye-doped potassium acid phthalate single crystal. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	10
71	Influence of polyaniline in polyaniline-tin oxide nanocomposite as counter electrode for dye sensitized solar cells. <i>Optik</i> , 2018, 157, 1219-1226.	1.4	10
72	Studies on the growth and characterization of an organic single crystal – 1,3,5- Triphenylbenzene. <i>Materials Research Innovations</i> , 2018, 22, 1-6.	1.0	10

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73	Monocrystal growth and characterization study of $\hat{1}\pm$ - and $\hat{1}^3$ -polymorph of glycine to explore superior performance of $\hat{1}^3$ -glycine crystal. <i>Materials Research Innovations</i> , 0, , 1-6.	1.0	9
74	Investigations on 4-methyl benzophenone (4MB) single crystal grown by Czochralski method and its characterization. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 8571-8583.	1.1	9
75	Difficulties and improvement in growth of Europium doped Strontium Iodide (SrI ₂ :Eu ²⁺) scintillator single crystal for radiation detection applications. <i>Journal of Alloys and Compounds</i> , 2018, 747, 989-993.	2.8	9
76	The influence of $\hat{1}$ -linkers configuration on properties of 10-hexylphenoxazine donor-based sensitizer for dye-sensitized solar cell application – Theoretical approach. <i>Journal of Molecular Graphics and Modelling</i> , 2021, 102, 107779.	1.3	9
77	Synthesis and characterization of K _{0.5} Bi _{0.5} TiO ₃ –BaTiO ₃ piezoelectric ceramics for energy storage applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 717-726.	1.1	9
78	Crystal growth and physico-chemical characterization of semi-organic [C ₄ H ₁₂ N ₂] ZnCl ₄ ·H ₂ O single crystal for laser applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 16467-16480.	1.1	9
79	Cobalt based new quaternary Heusler alloys for Spintronic and thermoelectric applications: an Ab-initio study. <i>Materials Technology</i> , 2022, 37, 1936-1946.	1.5	9
80	Influence of Radiation Heat Transfer on Mc-Si Ingot during Directional Solidification: A Numerical Investigation. <i>Silicon</i> , 2022, 14, 12085-12094.	1.8	9
81	Growth of organic non-linear optical 4-Hydroxy L-Proline (HLP) single crystal by conventional solution method and its structural, vibrational, optical and mechanical characterisations. <i>Materials Research Innovations</i> , 2017, 21, 189-194.	1.0	8
82	Synthesis, crystal growth, physio-chemical characterization and quantum chemical calculations of NLO active metal-organic crystal: dibromo(4-hydroxy-l-proline)cadmium for non-linear optical applications. <i>New Journal of Chemistry</i> , 2018, 42, 17464-17477.	1.4	8
83	Improving Heat Transfer Properties of DS furnace by the Geometrical Modifications for Enhancing the Multi Crystalline Silicon Ingot (mc-Si) Quality Using Transient Simulation. <i>Silicon</i> , 2019, 11, 603-613.	1.8	8
84	Electron migration between inter and intra-particles in the soft-template processed titania nanospheres and its influences in the photovoltaic performance of the dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 3910-3923.	1.1	8
85	Twitching the inherent properties: the impact of transition metal Mn-doped on LaFeO ₃ -based perovskite materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 25528-25544.	1.1	8
86	Growth and physical properties of organic nonlinear optical crystal: 3-Aminophenol perchlorate. <i>Optik</i> , 2015, 126, 2125-2128.	1.4	7
87	Investigation on the structural, linear/nonlinear optical and electrical characteristics of Cd- and Mn-doped polar lithium sulfate monohydrate crystals. <i>New Journal of Chemistry</i> , 2017, 41, 12259-12267.	1.4	7
88	Synthesis, optical, electrochemical and photovoltaic properties of donor modified organic dyes for dye-sensitized solar cell (DSSC) applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 6672-6678.	1.1	7
89	Numerical Modelling on Modified Directional Solidification Process of Multi-crystalline Silicon Growth for Photovoltaic Applications. <i>Materials Today: Proceedings</i> , 2018, 5, 23014-23021.	0.9	7
90	Effect of Partial Replacement of Retort with an Insulation Material on Mc-Silicon Grown in Directional Solidification Furnace: Numerical Modeling. <i>Silicon</i> , 2022, 14, 7871-7878.	1.8	7

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91	Synthesis, crystal growth and physical characterizations of organic nonlinear optical crystal: Ammonium hydrogen l-malate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 126, 7-13.	2.0	6
92	Characterization of 4-chloro-3-nitrobenzophenone crystal grown by Bridgman technique. Journal of Thermal Analysis and Calorimetry, 2014, 117, 1165-1169.	2.0	6
93	Simulation Studies of Annealing Effect on a mc-Si Ingot for Photovoltaic Application. Silicon, 2018, 10, 1021-1033.	1.8	6
94	Simulation Analysis of Direction Solidification Process with Fixed Partition Block to Grow Multi Crystalline Silicon Ingot. Silicon, 2019, 11, 401-406.	1.8	6
95	Reduction of Carbon and Oxygen Impurities in mc-Silicon Ingot Using Molybdenum Gas Shield in Directional Solidification Process. Silicon, 2021, 13, 4535-4544.	1.8	6
96	Effect of Sintering on Structural Modification and Phase Transition of Al-Substituted LLZO Electrolytes for Solid State Battery Applications. Journal of Electrochemical Energy Conversion and Storage, 2021, 18, .	1.1	6
97	Synthesis of Ag-incorporated TiO ₂ nanoparticles by simple green approach as working electrode for dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2022, 33, 4965-4973.	1.1	6
98	One-pot microwave synthesis of SnSe and Lanthanum doped SnSe nanostructure with direct Z scheme pattern for excellent photodegradation of organic pollutants. Ceramics International, 2022, 48, 12228-12239.	2.3	6
99	Growth and characterization of 4-Aminopyridinium-4-nitro phenolate single crystals. Crystal Research and Technology, 2009, 44, 675-681.	0.6	5
100	Reply to "Comments on papers reporting IR-spectra and other data of L-alanine alaninium nitrate and L-alanine sodium nitrate crystals" by M. Fleck and A. M. Petrosyan. Crystal Research and Technology, 2009, 44, 773-775.	0.6	5
101	Investigation on crystalline perfection, optical transmittance, birefringence, temperature-dependent refractive index, laser damage threshold and pyroelectric characteristics of inversely soluble lithium sulfate monohydrate single crystals. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	5
102	Synthesis, growth and spectroscopic investigation of a new organic salt crystal: Pyridinium 3-carboxylic acid trichloroacetate. Optik, 2016, 127, 3253-3258.	1.4	5
103	Computational Modelling on Heat Transfer Study of Molten Silicon During Multi-crystalline Silicon Growth Process for PV Applications. Silicon, 2017, 9, 7-16.	1.8	5
104	Preparation of one dimensional titanium dioxide nanowires using electrospinning process for dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2017, 28, 11509-11514.	1.1	5
105	Bulk growth of organic 4-hydroxy l-proline (HLP) single crystals grown by conventional slow evaporation and Sankaranarayanan "Ramasamy (SR) method. Journal of Materials Science: Materials in Electronics, 2017, 28, 15354-15369.	1.1	5
106	Influence of SILAR deposition cycles in CdS quantum dot-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2018, 29, 7318-7324.	1.1	5
107	Investigation on synthesis, growth, structure and physical properties of AgGa _{0.5} In _{0.5} S ₂ single crystals for Mid-IR application. Journal of Crystal Growth, 2018, 483, 169-174.	0.7	5
108	Growth of [010] oriented urea-doped triglycine sulphate (Ur-TGS) single crystals below and above Curie temperature (T _c) and comparative investigations of their physical properties. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	5

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109	Synthesis of Flower-Like Graphene Doped Cobalt Oxide via Hydrothermal Method and Its Performance as Counter Electrode in Dye Sensitized Solar Cells Applications. <i>Journal of Cluster Science</i> , 0, , 1.	1.7	5
110	Investigating the effect of π -configurations and methoxy substitution on donor and π - spacers based dyes for dye-sensitized solar cell applicationsâ€“computational approach. <i>Research on Chemical Intermediates</i> , 2022, 48, 1877-1906.	1.3	5
111	Growth and characterization of semicarbazone of cyclohexanone. <i>Crystal Research and Technology</i> , 2006, 41, 807-811.	0.6	4
112	Growth of Ethyl-Para-Hydroxybenzoate Single Crystal and its Characterization. <i>Advanced Materials Research</i> , 0, 584, 121-125.	0.3	4
113	Growth and characterization of 0.1 and 0.25 zinc magnesium ammonium sulphate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 112, 1127-1132.	2.0	4
114	Structure, crystalline perfection, mechanical, second harmonic generation efficiency, laser damage threshold and piezoelectric properties of bis nicotinamidium bis D-tartrate 1.25-hydrate single crystals. <i>Optical Materials</i> , 2015, 46, 504-509.	1.7	4
115	Structural, thermal and optical properties of $\text{KTi}_{0.92}\text{La}_{0.08}\text{OPO}_4$ and $\text{KTi}_{0.94}\text{Nd}_{0.06}\text{OPO}_4$. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 183-189.	2.0	4
116	Synthesis of 2-cyano 3-(4 dimethylaminophenyl) prop 2-enoic acid dye derived from 4-dimethylaminobenzaldehyde and methyl cyanoacetate and its properties. <i>Materials Research Innovations</i> , 2016, 20, 112-116.	1.0	4
117	Structure, growth and characterization of picolinium perchlorate single crystals. <i>Optik</i> , 2016, 127, 5466-5471.	1.4	4
118	Growth of organic nonlinear optical (NLO) ammonium D,L-tartrate (AMT) single crystal by conventional and unidirectional method and its characterization. <i>Materials Research Innovations</i> , 2016, 20, 67-75.	1.0	4
119	Numerical study on various types of stress and dislocation generation in multi-crystalline silicon at various growth stages for PV applications. <i>Engineering With Computers</i> , 2017, 33, 207-218.	3.5	4
120	Investigation on the bulk growth of $\alpha\text{-LiIO}_3$ single crystal. <i>Bulletin of Materials Science</i> , 2017, 40, 783-789.	0.8	4
121	Numerical Simulation on the Suppression of Crucible Wall Constraint in Directional Solidification Furnace. <i>Silicon</i> , 2019, 11, 775-780.	1.8	4
122	Theoretical Investigation on Flavones and Isoflavones-Added Triphenylamine-Based Sensitizers for DSSC Application. <i>Brazilian Journal of Physics</i> , 2019, 49, 103-112.	0.7	4
123	Top-seeded solution growth and investigation of electrical and energy storage performance of pure and doped $(1-x)\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ - $x\text{BaTiO}_3$ ferroelectric single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 13714-13723.	1.1	4
124	Influence of Additional Insulation Block on Melt-Crystal Interface Shape in Directional Solidification System for Growing High Quality mc-Silicon Ingot: a Simulation Investigation. <i>Silicon</i> , 2021, 13, 1713-1722.	1.8	4
125	Numerical Analysis of Melt Flow and Interface Deflection during the Growth of Directional Solidified Multi-Crystalline Silicon Ingots of Three Different Dimension. <i>Silicon</i> , 2022, 14, 3049-3057.	1.8	4
126	Device-relevant properties of [010]-oriented undoped TGS single crystals grown above and below the phase transition temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 15778-15788.	1.1	4

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127	Synthesis of anatase TiO ₂ microspheres and their efficient performance in dye-sensitized solar cell. Journal of Materials Science: Materials in Electronics, 2021, 32, 26306-26317.	1.1	4
128	Rational design of uniformly embedded Cu/CoTe nanoparticles in freestanding rGO sheets for visible light-induced degradation of toxic dyes. Journal of Materials Science: Materials in Electronics, 2022, 33, 9358-9367.	1.1	4
129	Conductive carbon black/CuS composite counter electrode for the enhanced photovoltaic performance of CdS quantum dot sensitized solar cells. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	4
130	Dual-phase formation in LaFeO ₃ upon doping of rare-earth Dy ³⁺ : Structural, Optical, Dielectric, Magnetic characteristics. Journal of Materials Science: Materials in Electronics, 2022, 33, 10626-10644.	1.1	4
131	A novel double perovskite oxide Sm ₂ CoFeO ₆ phosphor for orange LEDs: structural, magnetic and luminescence properties. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	4
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