

Aravindan Gurusamy

List of Publications by Year in descending order

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231
papers

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#	ARTICLE	IF	CITATIONS
1	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
2	Transient Simulation on the Growth of Mono-like Silicon Ingot in DS Process Using Crucible with Plano-Concave Bottom for PV Applications. <i>Silicon</i> , 2022, 14, 3653-3663.	1.8	3
3	Reddish-orange-emitting Ca ₁₂ Al ₁₄ O ₃₃ : Sm ³⁺ phosphors with high color purity. <i>Chemical Papers</i> , 2022, 76, 1147-1155.	1.0	2
4	Rational design of uniformly embedded Cu/CoTe nanoparticles in freestanding rGO sheets for visible light-induced degradation of toxic dyes. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 9358-9367.	1.1	4
5	Effect of different polyvinylpyrrolidone and 3-mercaptopropionic acid concentrations on structural, morphological, and optical properties of cadmium sulfide quantum dots. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 703-713.	1.1	0
6	Synthesis of Ag-incorporated TiO ₂ nanoparticles by simple green approach as working electrode for dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 4965-4973.	1.1	6
7	One-pot microwave synthesis of SnSe and Lanthanum doped SnSe nanostructure with direct Z scheme pattern for excellent photodegradation of organic pollutants. <i>Ceramics International</i> , 2022, 48, 12228-12239.	2.3	6
8	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
9	Metamorphosis Remark on Room Temperature Ferromagnetism, with Relevant Spectroscopy Studies on the Sintered ZnO. <i>Journal of Superconductivity and Novel Magnetism</i> , 2022, 35, 941-951.	0.8	1
10	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
11	A study of the phase transition by the electrical resistivity and photocurrent on TGS crystal grown using the unidirectional growth method of Sankaranarayananâ€™Ramasamy. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 5763.	1.1	0
12	Conductive carbon black/CuS composite counter electrode for the enhanced photovoltaic performance of CdS quantum dot sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	1.1	4
13	Dual-phase formation in LaFeO ₃ upon doping of rare-earth Dy ³⁺ : Structâ€™Optoâ€™Dielectricâ€™Magnetic characteristics. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 10626-10644.	1.1	4
14	A novel double perovskite oxide Sm ₂ CoFeO ₆ phosphor for orange LEDs: structural, magnetic and luminescence properties. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	1.1	4
15	Investigating the effect of Î€-configurations and methoxy substitution on donor and Î€- spacers based dyes for dye-sensitized solar cell applicationsâ€™computational approach. <i>Research on Chemical Intermediates</i> , 2022, 48, 1877-1906.	1.3	5
16	Synthesis and growth of new organic 2-amino-4,6-dimethylpyrimidinium trifluoroacetate (AMPTF) single crystals for nonlinear optical (NLO) applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 8035-8047.	1.1	3
17	Formation of face-contact interaction in 2D/2D/2D heterostructure ternary nanocomposites of g-C ₃ N ₄ /MoS ₂ /GO for effective photocatalytic activity against the organic pollutants under the visible light irradiation. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 11970-11988.	1.1	4
18	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

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19	Cesium halides/Methylammonium double cation perovskite film for efficient and stable carbon-based perovskite solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 14370-14380.	1.1	2
20	Reduction of Carbon and Oxygen Impurities in mc-Silicon Ingot Using Molybdenum Gas Shield in Directional Solidification Process. <i>Silicon</i> , 2021, 13, 4535-4544.	1.8	6
21	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
22	Simulation and Experimental Approach to Investigate the Annealing Effect on mc-Si Ingot Grown by Directional Solidification Process for PV Application. <i>Silicon</i> , 2021, 13, 2569-2580.	1.8	3
23	The influence of Æ-linkers configuration on properties of 10-hexylphenoxazine donor-based sensitizer for dye-sensitized solar cell application Æ“ Theoretical approach. <i>Journal of Molecular Graphics and Modelling</i> , 2021, 102, 107779.	1.3	9
24	Synthesis and characterization of $K_{0.5}Bi_{0.5}TiO_3$ Æ“ $BaTiO_3$ piezoelectric ceramics for energy storage applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 717-726.	1.1	9
25	Effect of Sintering on Structural Modification and Phase Transition of Al-Substituted LLZO Electrolytes for Solid State Battery Applications. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2021, 18, .	1.1	6
26	Crystallization of PECVD grown Si nanowire and its characterization using confocal Raman and EELS studies. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 204-209.	1.1	0
27	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
28	Methyl 4-aminobenzoate (MAB) single crystal grown by Bridgman - Stockbarger method for optical applications. <i>Optical Materials</i> , 2021, 113, 110891.	1.7	1
29	Crystal growth and physico-chemical characterization of semi-organic $[C_4H_{12}N_2] ZnCl_4 \cdot H_2O$ single crystal for laser applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 16467-16480.	1.1	9
30	Role of Æ conjugation in n-hexylphenothiazine dyes for solar cell Æ“ a density functional theory approach. <i>Journal of Molecular Modeling</i> , 2021, 27, 151.	0.8	3
31	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
32	Crystal growth, structure, Hirshfeld surface, optical and thermal studies of p-aminoazobenzene crystal. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 20698-20709.	1.1	1
33	Enrichment of piezoelectric properties in Nb ⁵⁺ -doped (0.94) $(Na_{0.5}Bi_{0.5})TiO_3$ Æ“ (0.06) $BaTiO_3$ ceramics across morphotropic phase boundary region. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 24115-24124.	1.1	2
34	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
35	Synthesis of anatase TiO ₂ microspheres and their efficient performance in dye-sensitized solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 26306-26317.	1.1	4
36	Growth, structural, optical, DFT, thermal and dielectric studies of N-Benzyl-3-nitroaniline (B3NA): a promising nonlinear optical crystal. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 26318.	1.1	3

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37	A study on structural, compositional, microhardness and dielectric properties of LiInS_2 crystal. <i>Materials Research Innovations</i> , 2020, 24, 8-17.	1.0	2
38	Effect of Titanium Carbide Heat Exchanger Block and Retort on Oxygen Impurities in Mono-Silicon: Numerical Modelling. <i>Silicon</i> , 2020, 12, 799-803.	1.8	2
39	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
40	Exploring the effect of π -spacers on D-D- π -A based triphenylamine dyes for dye sensitized solar cell applications – Computational approach. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	1
41	Growth and characterization of novel organic quinoline 4-nitrophenol (QNP) single crystals for frequency conversion applications. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
42	Growth of 4-aminopyridinium 4-nitrophenolate 4-nitrophenol (4AP4N) single crystal and its structural, optical, electrical and laser damage threshold characterization. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
43	Fabrication of type-I and type-II SHG elements using organic 2-aminopyridinium 4-nitrophenolate 4-nitrophenol (2AP4N) single crystals grown by point seed rotation and novel RSR technique. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	1
44	Synthesis, crystal growth, and physical characterization of inorganic-organic hybrid material: Bis (4-methylbenzylammonium) tetraiodo cadmate (II) crystal. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	1
45	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. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	5
46	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
47	Dysprosium activated strontium aluminate phosphor: A potential candidate for WLED applications. <i>Journal of Luminescence</i> , 2020, 223, 117126.	1.5	30
48	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
49	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
50	Crystal growth, vibrational, Hirshfeld surface, thermal, optical, and etching analyses of lithium hydrogen phthalate dihydrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 3706-3714.	1.1	2
51	Density functional theory calculations and Hirshfeld surface analysis of propyl-para-hydroxybenzoate (PHB) for optoelectronic application. <i>Materials Science-Poland</i> , 2020, 38, 386-393.	0.4	1
52	Synthesis and characterization of disc-shaped thiophene based Zn-Porphyrin for organic solar cells application. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
53	Optimization of crystal quality by improving heat transfer properties of titanium carbide retort in the directional solidification. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
54	Simulation Analysis of Direction Solidification Process with Fixed Partition Block to Grow Multi Crystalline Silicon Ingot. <i>Silicon</i> , 2019, 11, 401-406.	1.8	6

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55	Modelling on Modified Heater Design of DS System for Improving the Quality of Mc-Silicon Ingot. Silicon, 2019, 11, 1393-1400.	1.8	3
56	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
57	The Influence of Multiple-Heaters on the Reduction of Impurities in mc-Si for Directional Solidification. Silicon, 2019, 11, 1335-1344.	1.8	19
58	Numerical Simulation on the Suppression of Crucible Wall Constraint in Directional Solidification Furnace. Silicon, 2019, 11, 775-780.	1.8	4
59	Growth, structural, optical and ferroelectric properties of L-proline doped sodium acid phthalate hemihydrate single crystals. AIP Conference Proceedings, 2019, , .	0.3	2
60	Crystal growth, dielectric and fluorescence properties of semi-organic lithium hydrogen phthalate dihydrate single crystal. AIP Conference Proceedings, 2019, , .	0.3	1
61	Crystal growth and characterization of 4-dimethylamino pyridinium 4-nitrophenolate 4-nitrophenol (DMAPNP) for NLO applications. AIP Conference Proceedings, 2019, , .	0.3	0
62	Investigations of optical properties and judd-ofelt analysis of Eu ³⁺ ions doped boro-phosphate glasses. AIP Conference Proceedings, 2019, , .	0.3	0
63	Donor substituted triphenylamine based sensitizers for dye sensitized solar cells (DSSC) application - DFT and TD-DFT approach. AIP Conference Proceedings, 2019, , .	0.3	1
64	Growth of 2-amino 4,6-dimethyl pyrimidine 4-nitrophenol (AMP4N) single crystals for technological applications. AIP Conference Proceedings, 2019, , .	0.3	0
65	Linear and nonlinear optical properties of organic 4-methyl-3-nitrobenzoic acid (4M3N) single crystal grown by bridgman " Stockbarger method. AIP Conference Proceedings, 2019, , .	0.3	0
66	Simple N-hexylcarbazole based metal free sensitizer for dye sensitized solar cells (DSSC) application " A quantum chemical approach. AIP Conference Proceedings, 2019, , .	0.3	1
67	Heater modification on directional solidification system: A numerical simulation. AIP Conference Proceedings, 2019, , .	0.3	0
68	Optimization of the high-performance multi-crystalline silicon solidification process by side heater design-DS system. AIP Conference Proceedings, 2019, , .	0.3	0
69	Effect of Flavone and Isoflavone in the Triphenylamine-Based Sensitizers for Dye-Sensitized Solar Cell Applications: DFT and TD-DFT Approach. Silicon, 2019, 11, 1205-1220.	1.8	2
70	Tuning the lifetime from molecular engineering of carbazole donor based metal-free organic dyes for dye sensitized solar cells " A computational approach. Journal of Molecular Structure, 2019, 1195, 494-505.	1.8	13
71	Numerical simulation and global heat transfer computations of thermoelastic stress in Cz silicon crystal. International Journal of Materials Research, 2019, 110, 911-919.	0.1	3
72	Evidence for Spin Glass Transition in Hexagonal DyMnO ₃ without Substitutional Disorder. Journal of Physical Chemistry C, 2019, 123, 30499-30508.	1.5	12

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73	Theoretical Investigation on Flavones and Isoflavones-Added Triphenylamine-Based Sensitizers for DSSC Application. Brazilian Journal of Physics, 2019, 49, 103-112.	0.7	4
74	Structural, vibrational, Hirshfeld surfaces and optical studies of nonlinear optical organic imidazolium L-tartrate single crystal. Journal of Molecular Structure, 2019, 1179, 506-513.	1.8	24
75	Growth, structural, optical, thermal, laser damage threshold and theoretical investigations of organic nonlinear optical 2-aminopyridinium 4-nitrophenolate 4-nitrophenol (2AP4N) single crystal. Journal of Materials Science: Materials in Electronics, 2019, 30, 1553-1570.	1.1	14
76	Numerical Study on Effect of Side Insulation Movement in the Multi-crystalline Silicon Growth Process. Silicon, 2019, 11, 1327-1333.	1.8	3
77	Improving Heat Transfer Properties of DS furnace by the Geometrical Modifications for Enhancing the Multi Crystalline Silicon Ingot (mc-Si) Quality Using Transient Simulation. Silicon, 2019, 11, 603-613.	1.8	8
78	Photovoltaic performance of Pb-doped CdS quantum dots for solar cell application. Materials Letters, 2018, 220, 74-77.	1.3	22
79	Investigations on 4-methyl benzophenone (4MB) single crystal grown by Czochralski method and its characterization. Journal of Materials Science: Materials in Electronics, 2018, 29, 8571-8583.	1.1	9
80	Computational modelling on donor configuration for wide solar energy capture. Materials Letters, 2018, 219, 216-219.	1.3	2
81	Crystal growth and characterization of semi organic nonlinear optical (NLO) piperazinium tetrachlorozincate monohydrate (PTCZ) single crystal. AIP Conference Proceedings, 2018, , .	0.3	2
82	Crystal growth of triphenylphosphine oxide 4-nitrophenol (TP4N) for nonlinear optical (NLO) applications. AIP Conference Proceedings, 2018, , .	0.3	1
83	High-performance mc-Si ingot grown by modified DS system: Numerical investigation. AIP Conference Proceedings, 2018, , .	0.3	0
84	Growth and characterization of SrI ₂ :Eu ²⁺ single crystal for gamma ray detector applications. AIP Conference Proceedings, 2018, , .	0.3	1
85	Synthesis, optical, electrochemical and photovoltaic properties of donor modified organic dyes for dye-sensitized solar cell (DSSC) applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 6672-6678.	1.1	7
86	Directional growth, physicochemical and quantum chemical investigations on pyridinium 2-carboxylate: 4-nitrophenol (P2C4N) single crystal for nonlinear optical (NLO) applications. New Journal of Chemistry, 2018, 42, 4261-4277.	1.4	23
87	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
88	Optimizing Structural, Microhardness, Surface Growth Mechanism, Luminescence and Thermal Traits of KH ₂ PO ₄ Crystal Exploiting Multidirectional H-Bonding Quality of Dopant Tartaric Acid. Crystal Research and Technology, 2018, 53, 1700165.	0.6	16
89	Simulation of Effect of Surface Tension in Molten Silicon During mc-Silicon Growth Process for PV Applications. Silicon, 2018, 10, 1087-1094.	1.8	1
90	Influence of polyaniline in polyaniline-tin oxide nanocomposite as counter electrode for dye sensitized solar cells. Optik, 2018, 157, 1219-1226.	1.4	10

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91	Synthesis, crystal structure, thermal and nonlinear optical properties of new metal-organic single crystal: Tetrabromo (piperazinium) zincate (II) (TBPZ). AIP Conference Proceedings, 2018, , .	0.3	1
92	Difficulties and improvement in growth of Europium doped Strontium Iodide (SrI ₂ :Eu ²⁺) scintillator single crystal for radiation detection applications. Journal of Alloys and Compounds, 2018, 747, 989-993.	2.8	9
93	Numerical Modelling on Industrial Scale Multi-Crystalline Silicon Growth Process at Critical Prandtl Number for PV Applications. Silicon, 2018, 10, 235-244.	1.8	1
94	Crystal growth, structural, optical, thermal and dielectric studies of non-linear optical 2-amino-5-nitropyridinium nitrate (2A5NPN) single crystals. Materials Research Innovations, 2018, 22, 128-136.	1.0	12
95	Studies on the growth and characterization of an organic single crystal " 1,3,5- Triphenylbenzene. Materials Research Innovations, 2018, 22, 1-6.	1.0	10
96	Investigations on the growth, structural, optical, mechanical, dielectric and SHG behaviour of GPMG crystals. Materials Research Innovations, 2018, 22, 115-120.	1.0	2
97	Simulation Studies of Annealing Effect on a mc-Si Ingot for Photovoltaic Application. Silicon, 2018, 10, 1021-1033.	1.8	6
98	Computational Modeling on the Influence of the Schmidt Number on Second Phase Impurities SiC, Si ₂ N ₂ O and Si ₃ N ₄ in Grown mc-Silicon for PV Applications. Silicon, 2018, 10, 1077-1085.	1.8	3
99	The effect of different "bridge configuration on bi-anchored triphenylamine and phenyl modified triphenylamine based dyes for dye sensitized solar cell (DSSC) application: A theoretical approach. Journal of Molecular Graphics and Modelling, 2018, 79, 235-253.	1.3	24
100	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
101	Crystal growth, physical properties and computational insights of semi-organic non-linear optical crystal diphenylguanidinium perchlorate grown by conventional solvent evaporation method. Journal of Crystal Growth, 2018, 483, 16-25.	0.7	15
102	Size-dependent photovoltaic performance of cadmium sulfide (CdS) quantum dots for solar cell applications. Journal of Alloys and Compounds, 2018, 735, 202-208.	2.8	29
103	Palladium Nanocubes Synthesized Via - Metal Chloride Route for Dye Sensitized Solar Cells (DSSC) Applications. Materials Today: Proceedings, 2018, 5, 22979-22982.	0.9	0
104	Numerical Modelling on Modified Directional Solidification Process of Multi-crystalline Silicon Growth for Photovoltaic Applications. Materials Today: Proceedings, 2018, 5, 23014-23021.	0.9	7
105	Donor functionalized quinoline based organic sensitizers for dye sensitized solar cell (DSSC) applications: DFT and TD-DFT investigations. Journal of Molecular Modeling, 2018, 24, 343.	0.8	25
106	Influence of additional heat exchanger block on directional solidification system for growing multi-crystalline silicon ingot " A simulation investigation. AIP Conference Proceedings, 2018, , .	0.3	3
107	Synthesis, crystal growth, physio-chemical characterization and quantum chemical calculations of NLO active metal"organic crystal: dibromo(4-hydroxy- <i>l</i> -proline)cadmium(II) for non-linear optical applications. New Journal of Chemistry, 2018, 42, 17464-17477.	1.4	8
108	Tungsten carbide nanorods with zirconium dioxide composite for low cost with high efficiency Pt-free counter electrode in dye sensitized solar cell. AIP Conference Proceedings, 2018, , .	0.3	0

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109	Growth of 4-methylbenzophenone (4MB) single crystals by Czochralski method and its structural, mechanical and optical characterization. AIP Conference Proceedings, 2018, , .	0.3	0
110	Numerical simulation of thermal stress distributions in Czochralski-grown silicon crystals. AIP Conference Proceedings, 2018, , .	0.3	2
111	Synthesis of pure and benzoguanamine-doped PVDF/KI/I2 electrolytes for dye sensitized solar cell (DSSC) applications. AIP Conference Proceedings, 2018, , .	0.3	1
112	10-(quinolin-6-yl)-10H-phenoxazine donor based organic sensitizers for dye sensitized solar cells (DSSC) application - A theoretical approach. AIP Conference Proceedings, 2018, , .	0.3	1
113	Comparison of performance of dye-sensitized solar cell prepared with uncalcinated and calcinated ZnO-TiO2 mixed phase nanoparticles. AIP Conference Proceedings, 2018, , .	0.3	2
114	Bridgman-Stockbarger growth of SrI2:Eu2+ single crystal. , 2018, , .		0
115	Effect of annealing temperature on the thermal stress and dislocation density of mc-Si ingot grown by DS process for solar cell application. AIP Conference Proceedings, 2018, , .	0.3	1
116	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
117	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. Materials Research Innovations, 2017, 21, 27-32.	1.0	13
118	Numerical study on various types of stress and dislocation generation in multi-crystalline silicon at various growth stages for PV applications. Engineering With Computers, 2017, 33, 207-218.	3.5	4
119	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. Materials Research Innovations, 2017, 21, 189-194.	1.0	8
120	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
121	Synthesis of pure and 4-Nitroaniline doped (PVDF-HFP/LiI/I2) polymer electrolyte for dye sensitized solar cell (DSSC) applications. AIP Conference Proceedings, 2017, , .	0.3	3
122	Facile synthesis of mesoporous TiO2 nanospheres by microwave-assisted hydrothermal method and its applications in dye sensitized solar cells. AIP Conference Proceedings, 2017, , .	0.3	3
123	Structural, vibrational, optical, thermal and mechanical properties of guanidinium trichloroacetate single crystal. AIP Conference Proceedings, 2017, , .	0.3	0
124	Crystal growth of potassium 3,5-dinitrobenzoate (KDNB) for third order nonlinear optical (NLO) applications. AIP Conference Proceedings, 2017, , .	0.3	0
125	Determination of Nucleation Kinetics and Crystal Perfection, Optical, Piezoelectric Properties of Semi-organic NLO Single Crystal-Sodium Acid Phthalate Hemihydrate. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 1383-1390.	1.9	12
126	An investigation to overcome the problems in growing bulk size $\hat{1}\pm$ -LiIO3 single crystals. AIP Conference Proceedings, 2017, , .	0.3	1

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127	Investigation on synthesis, growth and characterization of CdIn ₂ S ₂ Se ₂ single crystal grown by vertical Bridgman method. Journal of Crystal Growth, 2017, 468, 349-355.	0.7	3
128	Bulk growth of organic non-linear optical (NLO) L-arginine 4-nitrophenolate 4-nitrophenol dihydrate (LAPP) single crystals by Sankaranarayananâ€™Ramasamy (SR) method. Materials Research Innovations, 2017, 21, 426-433.	1.0	22
129	Growth of ethyl 2-cyano 3-(4-(dimethylamino) phenyl) acrylate single crystal and its structural, optical, thermal and electrical characterisations. Materials Research Innovations, 2017, 21, 401-406.	1.0	0
130	Investigation on the structural, linear/nonlinear optical and electrical characteristics of Cd- and Mn-doped polar lithium sulfate monohydrate crystals. New Journal of Chemistry, 2017, 41, 12259-12267.	1.4	7
131	Crystal growth, piezoelectric, non-linear optical and mechanical properties of lithium hydrogen oxalate monohydrate single crystal. AIP Conference Proceedings, 2017, , .	0.3	0
132	Investigation on the bulk growth of α -Li ₃ LiO ₃ single crystal. Bulletin of Materials Science, 2017, 40, 783-789.	0.8	4
133	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
134	Bulk growth of organic 4-hydroxy l-proline (HLP) single crystals grown by conventional slow evaporation and Sankaranarayananâ€™Ramasamy (SR) method. Journal of Materials Science: Materials in Electronics, 2017, 28, 15354-15369.	1.1	5
135	Crystal growth and characterization of sodium p-nitrophenolate dihydrate (NPNa) single crystals for NLO applications. AIP Conference Proceedings, 2017, , .	0.3	1
136	Tungsten carbide nanorods with titanium dioxide composite counter electrode: Effect of NMP to enhanced efficiency in dye sensitized solar cell (DSSC). AIP Conference Proceedings, 2017, , .	0.3	3
137	Growth kinetics and bulk growth of inversely soluble lithium sulfate monohydrate single crystals and their characterization. Journal of Crystal Growth, 2017, 468, 38-42.	0.7	1
138	Synthesis of nanocrystalline TiO ₂ nanorods via hydrothermal method: An efficient photoanode material for dye sensitized solar cells. Journal of Crystal Growth, 2017, 468, 125-128.	0.7	25
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