

# P Ramasamy

## List of Publications by Year in descending order

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691  
papers

12,119  
citations

53939

47  
h-index

104191

69  
g-index

695  
all docs

695  
docs citations

695  
times ranked

4803  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reddish-orange-emitting Ca <sub>12</sub> Al <sub>14</sub> O <sub>33</sub> : Sm <sup>3+</sup> phosphors with high color purity. <i>Chemical Papers</i> , 2022, 76, 1147-1155.	1.0	2
2	Immersing ampoule Sankaranarayananâ€™s Ramasamy (ISR) method: Unidirectional high-quality single crystal growth. <i>Journal of Crystal Growth</i> , 2022, 577, 126401.	0.7	3
3	Growth of large size Triphenylphosphine Oxide 4-Nitrophenol (TP4N) single crystal by Sankaranarayananâ€™s Ramasamy (SR) method for third order nonlinear optical applications. <i>Chinese Journal of Physics</i> , 2022, 76, 68-78.	2.0	2
4	A study of the phase transition by the electrical resistivity and photocurrent on TGS crystal grown using the unidirectional growth method of Sankaranarayananâ€™s Ramasamy. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 5763.	1.1	0
5	Dual-phase formation in LaFeO <sub>3</sub> upon doping of rare-earth Dy <sup>3+</sup> : Structuralâ€™Opticalâ€™Dielectricâ€™Magnetic characteristics. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 10626-10644.	1.1	4
6	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
7	Z-scheme heterojunction ZnSnO <sub>3</sub> /rGO/MoS <sub>2</sub> nanocomposite for excellent photocatalytic activity towards mixed dye degradation. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 11863-11876.	3.8	17
8	Fermi energy-level shift of p-type AgBiSe <sub>2</sub> single crystal featuring semiconductor-to-metal transition at cryogenics. <i>Semiconductor Science and Technology</i> , 2022, 37, 065023.	1.0	2
9	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
10	Investigation of orientation, surface morphology, impurity concentration and reflectivity of the multi-crystalline silicon wafers. <i>Materials Chemistry and Physics</i> , 2022, 282, 125932.	2.0	4
11	Neutron-Î³ discrimination with organic scintillator crystal: 9-Phenylcarbazole (9-PCz) grown by Bridgman â€™ Stockbarger method. <i>Optical Materials</i> , 2022, 126, 112242.	1.7	3
12	Numerical and experimental investigation on mc-Silicon growth process by varying the Si <sub>3</sub> N <sub>4</sub> coating thickness of crucible. <i>Journal of Crystal Growth</i> , 2022, 586, 126608.	0.7	2
13	Investigation on Tetracycline degradation and bactericidal properties of binary and ternary ZnO/NiO/g-C <sub>3</sub> N <sub>4</sub> composites prepared by a facile co-precipitation method. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107368.	3.3	24
14	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
15	Investigation of structural, optical, and thermal properties of 2-amino-4,6-dimethylpyrimidine benzoic acid (2APB) single crystal for non-linear optical (NLO) applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 17780-17792.	1.1	8
16	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
17	The influence of Î€-linkers configuration on properties of 10-hexylphenoxazine donor-based sensitizer for dye-sensitized solar cell application â€™ Theoretical approach. <i>Journal of Molecular Graphics and Modelling</i> , 2021, 102, 107779.	1.3	9
18	Unidirectional crystal growth of L-alanine doped triglycine sulphate crystals along [010] polar direction in ferroelectric and paraelectric temperature ranges, and their comparative characterizations. <i>Materials Research Bulletin</i> , 2021, 134, 111118.	2.7	4

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19	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
20	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
21	Methyl 4-aminobenzoate (MAB) single crystal grown by Bridgman - Stockbarger method for optical applications. <i>Optical Materials</i> , 2021, 113, 110891.	1.7	1
22	Enhanced electron harvesting in next generation solar cells by employing TiO <sub>2</sub> nanoparticles prepared through hydrolysis catalytic process. <i>Ceramics International</i> , 2021, 47, 21263-21270.	2.3	8
23	Crystal growth and physico-chemical characterization of semi-organic [C <sub>4</sub> H <sub>12</sub> N <sub>2</sub> ] ZnCl <sub>4</sub> ·H <sub>2</sub> O single crystal for laser applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 16467-16480.	1.1	9
24	Role of $\pi$ conjugation in n-hexylphenothiazine dyes for solar cell—a density functional theory approach. <i>Journal of Molecular Modeling</i> , 2021, 27, 151.	0.8	3
25	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
26	Growth and characterization of Dy <sub>1-x</sub> Y <sub>x</sub> MnO <sub>3</sub> single crystals by optical floating zone technique: A combined X-ray diffraction and DC magnetization study. <i>Journal of Crystal Growth</i> , 2021, 565, 126152.	0.7	3
27	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
28	Bulk crystal growth, crystalline perfection and optical homogeneities of 2AP4N single crystals for second and third order frequency conversion and terahertz (THz) device applications. <i>Optical Materials</i> , 2021, 118, 111261.	1.7	11
29	Enrichment of piezoelectric properties in Nb <sup>5+</sup> -doped (0.94) (Na <sub>0.5</sub> Bi <sub>0.5</sub> )TiO <sub>3</sub> –(0.06) BaTiO <sub>3</sub> ceramics across morphotropic phase boundary region. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 24115-24124.	1.1	2
30	Bulk crystal growth, spectroscopic, hirshfeld surface analysis, physicochemical and quantum chemical investigations on 2-ethylimidazolium d-tartrate single crystal. <i>Journal of Molecular Structure</i> , 2021, 1238, 130448.	1.8	22
31	Investigation on the bulk crystal growth, crystalline perfection, refractive index and piezoelectric properties of borate single crystals for piezoelectric and electro-optic applications. <i>Chinese Journal of Physics</i> , 2021, 72, 616-627.	2.0	2
32	Twitching the inherent properties: the impact of transition metal Mn-doped on LaFeO <sub>3</sub> -based perovskite materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 25528-25544.	1.1	8
33	Integrating gC <sub>3</sub> N <sub>4</sub> nanosheet with MoS <sub>2</sub> and ZnO-Ag: Remarkably enhanced photocatalytic performance under visible-light irradiation. <i>Colloids and Interface Science Communications</i> , 2021, 44, 100474.	2.0	15
34	Temperature dependent refractive index, thermo-optic coefficient and birefringence of negative biaxial imidazolium l-tartrate non-linear optical crystal. <i>Optik</i> , 2021, 243, 167021.	1.4	4
35	Non-Debye relaxation of AgBiSe <sub>2</sub> single crystal featuring flip-flop jumps in Bi valence state. <i>Materials Letters</i> , 2021, 300, 130179.	1.3	2
36	Two-dimensional g-C <sub>3</sub> N <sub>4</sub> nanosheets supporting Co <sub>3</sub> O <sub>4</sub> -V <sub>2</sub> O <sub>5</sub> nanocomposite for remarkable photodegradation of mixed organic dyes based on a dual Z-scheme photocatalytic system. <i>Diamond and Related Materials</i> , 2021, 118, 108540.	1.8	42

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37	Combustion synthesis, characterization and antibacterial properties of pristine ZnO and Ga doped ZnO nanoparticles. <i>Ceramics International</i> , 2021, 47, 27934-27941.	2.3	18
38	Effect of Titanium Carbide Heat Exchanger Block and Retort on Oxygen Impurities in Mc-Silicon: Numerical Modelling. <i>Silicon</i> , 2020, 12, 799-803.	1.8	2
39	Development of silicon nanowires with optimized characteristics and fabrication of radial junction solar cells with < 100 nm amorphous silicon absorber layer. <i>Materials Science in Semiconductor Processing</i> , 2020, 106, 104778.	1.9	10
40	Incorporation of Co <sup>2+</sup> in CdS quantum dots for solar cell applications. <i>Materials Science in Semiconductor Processing</i> , 2020, 108, 104869.	1.9	14
41	Effect of MgSO <sub>4</sub> on sulphamic acid single crystals and their structural, optical, mechanical, thermal and third order nonlinear optical studies. <i>Materials Chemistry and Physics</i> , 2020, 242, 122479.	2.0	17
42	Comparative analysis of thermal stress induced dislocations in 7 kg, 40 kg and 330 kg multi-crystalline silicon ingots grown by directional solidification. <i>Journal of Crystal Growth</i> , 2020, 550, 125901.	0.7	3
43	Enhanced electrochemical and photovoltaic performance for MoO <sub>3</sub> 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
44	Exploring the effect of $\pi$ -spacers on D-D-A based triphenylamine dyes for dye sensitized solar cell applications – Computational approach. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	1
45	Laser shadowgraphy and Mach-Zehnder interferometric imaging of convection, concentration and growth kinetics during unidirectional solution growth of benzophenone crystal. <i>Optics and Laser Technology</i> , 2020, 132, 106491.	2.2	1
46	Studies on semi-organic (C <sub>8</sub> H <sub>11</sub> NO) <sub>2</sub> [ZnCl <sub>4</sub> ] single crystal for nonlinear optical (NLO) applications. <i>Journal of Crystal Growth</i> , 2020, 535, 125528.	0.7	30
47	Crystal growth, optical, thermal, mechanical and third-order nonlinear optical properties of L-lysine hydrochloride-doped sulphamic acid single crystals for optical applications. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	5
48	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
49	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
50	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
51	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
52	A novel bifunctional Dy <sup>3+</sup> activated RbCaF <sub>3</sub> single phase phosphor: Facile synthesis and dual-luminescence properties for WLEDs and dosimetry applications. <i>Advanced Powder Technology</i> , 2020, 31, 2597-2604.	2.0	12
53	A facile synthesis, structural and triple-luminescence properties of a novel fluoroperovskite RbCaF <sub>3</sub> : Sm <sup>3+</sup> phosphor for radiation dosimetry and orange-red LED applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 255, 114531.	1.7	25
54	Effect of xylene orange on the crystalline perfection, optical, piezoelectric and NLO behavior of unidirectionally grown imidazolium L-Tartrate single crystal. <i>Chinese Journal of Physics</i> , 2020, 67, 135-146.	2.0	7

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55	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
56	Design and growth of novel organic molecular Quinoline 4-nitrophenol (QNP) single crystals: For Nonlinear optical (NLO) applications. Journal of Molecular Structure, 2020, 1210, 128036.	1.8	29
57	Bulk growth, structural and electrical properties of $(1-x)\text{Na}0.5\text{Bi}0.5\text{TiO}3-x\text{BaTiO}3$ piezoelectric single crystals by top seeded solution growth method. Materials Letters, 2020, 276, 128248.	1.3	3
58	Optical, thermal and nonlinear optical properties of amaranth dye-doped sulphamic acid single crystals. Journal of Materials Science: Materials in Electronics, 2020, 31, 13173-13185.	1.1	6
59	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. Journal of Materials Science: Materials in Electronics, 2020, 31, 13714-13723.	1.1	4
60	TGS crystal growth below and above Curie temperature ( $T_c$ ). Journal of Crystal Growth, 2020, 546, 125793.	0.7	3
61	Dysprosium activated strontium aluminate phosphor: A potential candidate for WLED applications. Journal of Luminescence, 2020, 223, 117126.	1.5	30
62	Crystal growth, optical, thermal, laser damage threshold, photoconductivity and third-order nonlinear optical studies of KCl doped sulphamic acid single crystals. Journal of Materials Science: Materials in Electronics, 2020, 31, 6084-6096.	1.1	14
63	Electron migration between inter and intraparticles in the soft-template processed titania nanospheres and its influences in the photovoltaic performance of the dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2020, 31, 3910-3923.	1.1	8
64	Structural, optical, thermal and nonlinear optical properties of Triphenylamine (TPA) single crystal grown by Bridgman Stockbarger method. Chemical Physics Letters, 2020, 742, 137128.	1.2	11
65	Crystal growth, vibrational, Hirshfeld surface, thermal, optical, and etching analyses of lithium hydrogen phthalate dihydrate. Journal of Materials Science: Materials in Electronics, 2020, 31, 3706-3714.	1.1	2
66	Investigation on the growth rate, crystalline perfection, refractive index, Z-scan and electrical characteristics of Z-cut imidazolium l-tartrate single crystal. Optical Materials, 2020, 108, 110380.	1.7	19
67	Growth, structural, optical, piezoelectric and birefringence properties of KAB5 mixed crystal. AIP Conference Proceedings, 2020, , .	0.3	0
68	Density functional theory calculations and Hirshfeld surface analysis of propyl-para-hydroxybenzoate (PHB) for optoelectronic application. Materials Science-Poland, 2020, 38, 386-393.	0.4	1
69	Synthesis and characterization of disc-shaped thiophene based Zn-Porphyrin for organic solar cells application. AIP Conference Proceedings, 2020, , .	0.3	0
70	Simulation Analysis of Direction Solidification Process with Fixed Partition Block to Grow Multi Crystalline Silicon Ingot. Silicon, 2019, 11, 401-406.	1.8	6
71	Modelling on Modified Heater Design of DS System for Improving the Quality of Mc-Silicon Ingot. Silicon, 2019, 11, 1393-1400.	1.8	3
72	Synthesis, growth, structural, optical, thermal, laser damage threshold and computational perspectives of 4-nitrophenol 4-aminobenzoic acid monohydrate (4NPABA) single crystal. Journal of Molecular Structure, 2019, 1176, 254-265.	1.8	38

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73	Growth, Hirshfeld surfaces, spectral, quantum chemical calculations, photoconductivity and chemical etching analyses of nonlinear optical p-toluidine p-toluenesulfonate single crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 206, 340-349.	2.0	38
74	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
75	Numerical Simulation on the Suppression of Crucible Wall Constraint in Directional Solidification Furnace. <i>Silicon</i> , 2019, 11, 775-780.	1.8	4
76	Growth, structural, optical and ferroelectric properties of L-proline doped sodium acid phthalate hemihydrate single crystals. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	2
77	Crystal growth, dielectric and fluorescence properties of semi-organic lithium hydrogen phthalate dihydrate single crystal. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
78	Crystal growth and characterization of 4-dimethylamino pyridinium 4-nitrophenolate 4-nitrophenol (DMAPNP) for NLO applications. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
79	Experimental and theoretical approach of organic 4,4-dimethylbenzophenone (DMBP) single crystal for NLO application. <i>Optics and Laser Technology</i> , 2019, 119, 105640.	2.2	16
80	Donor substituted triphenylamine based sensitizers for dye sensitized solar cells (DSSC) application - DFT and TD-DFT approach. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
81	Growth of 2-amino 4,6-dimethyl pyrimidine 4-nitrophenol (AMP4N) single crystals for technological applications. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
82	Linear and nonlinear optical properties of organic 4-methyl-3-nitrobenzoic acid (4M3N) single crystal grown by bridgman " Stockbarger method. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
83	Simple N-hexylcarbazole based metal free sensitizer for dye sensitized solar cells (DSSC) application " A quantum chemical approach. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
84	Optimizing oxygen impurities using different heater design in the directional solidification of multi-crystalline silicon. <i>Materials Research Express</i> , 2019, 6, 106323.	0.8	11
85	Effect of Flavone and Isoflavone in the Triphenylamine-Based Sensitizers for Dye-Sensitized Solar Cell Applications: DFT and TD-DFT Approach. <i>Silicon</i> , 2019, 11, 1205-1220.	1.8	2
86	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
87	Crystal growth, structural, optical, vibrational analysis, Hirshfeld surface and quantum chemical calculations of 1, 3, 5-triphenylbenzene single crystal. <i>Journal of Molecular Structure</i> , 2019, 1195, 659-669.	1.8	20
88	Growth of high-quality organic single crystal of 2-aminopyridinium 4-nitrophenolate 4-nitrophenol (2AP4N) by a novel Rotational Sankaranarayanan " Ramasamy (RSR) method. <i>Journal of Crystal Growth</i> , 2019, 518, 59-72.	0.7	16
89	Growth and characterization of 4-methyl-3-nitrobenzoic acid (4M3N) single crystal by using vertical transparent Bridgman-Stockbarger method for NLO applications. <i>Physica B: Condensed Matter</i> , 2019, 562, 82-93.	1.3	10
90	Influence of additional insulation block on multi-crystalline silicon ingot growth process for PV applications. <i>Journal of Crystal Growth</i> , 2019, 516, 10-16.	0.7	18



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91	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
92	Evidence for Spin Glass Transition in Hexagonal DyMnO <sub>3</sub> without Substitutional Disorder. Journal of Physical Chemistry C, 2019, 123, 30499-30508.	1.5	12
93	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
94	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
95	Numerical investigation of Directional Solidification process for improving multi-crystalline silicon ingot quality for photovoltaic applications. Materials Letters, 2019, 241, 180-183.	1.3	11
96	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
97	Study the effect of plasma power density and gold catalyst thickness on Silicon Nanowires growth by Plasma Enhanced Chemical Vapour Deposition. Materials Letters, 2018, 219, 127-130.	1.3	4
98	Photovoltaic performance of Pb-doped CdS quantum dots for solar cell application. Materials Letters, 2018, 220, 74-77.	1.3	22
99	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
100	Crystal growth, structural, optical, thermal, mechanical, laser damage threshold and electrical properties of triphenylphosphine oxide 4-nitrophenol (TP4N) single crystals for nonlinear optical applications. Optical Materials, 2018, 79, 152-171.	1.7	98
101	Crystal growth and characterization of semi organic nonlinear optical (NLO) piperazinium tetrachlorozincate monohydrate (PTCZ) single crystal. AIP Conference Proceedings, 2018, , .	0.3	2
102	Crystal growth of triphenylphosphine oxide 4-nitrophenol (TP4N) for nonlinear optical (NLO) applications. AIP Conference Proceedings, 2018, , .	0.3	1
103	High-performance mc-Si ingot grown by modified DS system: Numerical investigation. AIP Conference Proceedings, 2018, , .	0.3	0
104	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
105	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
106	Optimizing Structural, Microhardness, Surface Growth Mechanism, Luminescence and Thermal Traits of KH <sub>2</sub> PO <sub>4</sub> Crystal Exploiting Multidirectional H-Bonding Quality of Dopant Tartaric Acid. Crystal Research and Technology, 2018, 53, 1700165.	0.6	16
107	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
108	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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109	Rare earth (Ce <sup>3+</sup> ) activated NaMgF <sub>3</sub> phosphor synthesised by hydrothermal method and its optical properties. <i>Optik</i> , 2018, 158, 712-720.	1.4	7
110	Synthesis, crystal structure, thermal and nonlinear optical properties of new metal-organic single crystal: Tetrabromo (piperazinium) zincate (II) (TBPZ). <i>AIP Conference Proceedings</i> , 2018, , .	0.3	1
111	Difficulties and improvement in growth of Europium doped Strontium Iodide (Sr <sub>2</sub> :Eu <sup>2+</sup> ) scintillator single crystal for radiation detection applications. <i>Journal of Alloys and Compounds</i> , 2018, 747, 989-993.	2.8	9
112	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
113	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
114	Investigations on the growth, structural, optical, mechanical, dielectric and SHG behaviour of GPMG crystals. <i>Materials Research Innovations</i> , 2018, 22, 115-120.	1.0	2
115	Computational Modeling on the Influence of the Schmidt Number on Second Phase Impurities SiC, Si <sub>2</sub> N <sub>2</sub> O and Si <sub>3</sub> N <sub>4</sub> in Grown mc-Silicon for PV Applications. <i>Silicon</i> , 2018, 10, 1077-1085.	1.8	3
116	Nonlinear optical and microscopic analysis of Cu <sup>2+</sup> doped zinc thiourea chloride (ZTC) monocrystal. <i>Optics and Laser Technology</i> , 2018, 99, 197-202.	2.2	24
117	Growth and characterization of semi-organic nonlinear optical (NLO) guanidinium trichloroacetate (GTCA) single crystal. <i>Optik</i> , 2018, 156, 707-719.	1.4	39
118	The effect of different ĩ€-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
119	Investigation on synthesis, growth, structure and physical properties of AgGa <sub>0.5</sub> In <sub>0.5</sub> S <sub>2</sub> single crystals for Mid-IR application. <i>Journal of Crystal Growth</i> , 2018, 483, 169-174.	0.7	5
120	Crystal growth, physical properties and computational insights of semi-organic non-linear optical crystal diphenylguanidinium perchlorate grown by conventional solvent evaporation method. <i>Journal of Crystal Growth</i> , 2018, 483, 16-25.	0.7	15
121	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
122	Synthesis, crystal growth, physio-chemical characterization and quantum chemical calculations of NLO active metal-organic crystal: dibromo(4-hydroxy- <i>l</i> -proline)cadmium( <i>ii</i> ) for non-linear optical applications. <i>New Journal of Chemistry</i> , 2018, 42, 17464-17477.	1.4	8
123	Growth of 4-methylbenzophenone (4MB) single crystals by Czochralski method and its structural, mechanical and optical characterization. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	0
124	Synthesis, crystal growth and characterization of Zn <sub>0.5</sub> Mn <sub>0.5</sub> Te single crystal grown via the Bridgman technique. <i>CrystEngComm</i> , 2018, 20, 4989-4996.	1.3	1
125	Numerical simulation of thermal stress distributions in Czochralski-grown silicon crystals. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	2
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