

# Ramasamy P

## List of Publications by Year in descending order

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45  
papers

395  
citations

759233

12  
h-index

888059

17  
g-index

48  
all docs

48  
docs citations

48  
times ranked

311  
citing authors

#	ARTICLE	IF	CITATIONS
1	TiO <sub>2</sub> -CeO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> scheme heterostructure composite for enhanced photo-degradation and hydrogen evolution performance with combined experimental and DFT study. <i>Chemosphere</i> , 2022, 288, 132611.	8.2	49
2	Investigation on the Performance of Reduced Graphene Oxide as Counter Electrode in Dye Sensitized Solar Cell Applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800298.	1.8	26
3	Evaluation of Linear and Nonlinear Optical Properties of A Type 2-Amino-5-Nitropyridinium Dihydrogen Phosphate (2A5NPDP) Single Crystal Grown by the Modified Sankaranarayanan (SR) Method for Terahertz Generation. <i>Crystal Growth and Design</i> , 2019, 19, 6873-6892.	3.0	22
4	Graphene oxide reinforced bismuth titanate for photocatalytic degradation of azo dye (DB15) prepared by hydrothermal method. <i>Ceramics International</i> , 2021, 47, 25074-25080.	4.8	22
5	Hydrothermally derived nanoporous titanium dioxide nanorods/nanoparticles and their influence in dye-sensitized solar cell as a photoanode. <i>Chemical Physics Letters</i> , 2017, 689, 19-25.	2.6	20
6	Influence of zirconium dioxide and titanium dioxide binders on the photovoltaic performance of dye sensitized solar cell tungsten carbide nanorods based counter electrode. <i>Electrochimica Acta</i> , 2016, 211, 375-384.	5.2	19
7	Investigation of suitable binder combination and electrochemical charge transfer dynamics of vanadium carbide nanoparticles-based counter electrode in Pt-free dye-sensitized solar cell. <i>Journal of Materials Science</i> , 2018, 53, 4444-4455.	3.7	17
8	Simulation analysis on impurity distribution in mc-Si grown by directional solidification for solar cell applications. <i>International Journal of Materials Research</i> , 2016, 107, 525-533.	0.3	15
9	Growth, photoluminescence, lifetime, and laser damage threshold studies of 1, 3, 5-triphenylbenzene (TPB) single crystal for scintillation application. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	15
10	Experimental Study of Different Vanadium Dopant Concentrations in ZnO Nanorods for a Low Frequency Piezoelectric Accelerometer. <i>Journal of Electronic Materials</i> , 2019, 48, 5310-5322.	2.2	14
11	Fabrication of stable dye-sensitized solar cell with hydrothermally synthesized titanium dioxide nanorods as a photoanode material. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 3736-3743.	2.2	13
12	Effect of Precursor Concentration on Structural, Morphological, and Optical Properties of ZnO Thin-Filmed Sensor for Ethanol Detection. <i>IEEE Nanotechnology Magazine</i> , 2018, 17, 169-176.	2.0	12
13	Synthesis, crystal growth, structure, crystalline perfection, thermal, linear, and nonlinear optical investigations on 2-amino-5-nitropyridine 4-chlorobenzoic acid (1:1): a novel organic single crystal for NLO and optical limiting applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 15026-15045.	2.2	12
14	Poly(vinylidene fluoride-co-hexafluoropropylene) additive in perovskite for stable performance of carbon-based perovskite solar cells. <i>International Journal of Energy Research</i> , 2022, 46, 1565-1574.	4.5	12
15	One step synthesis of tin oxide nanomaterials and their sintering effect in dye degradation. <i>Optik</i> , 2017, 135, 434-445.	2.9	10
16	Synthesis, crystal growth, physico-chemical and quantum chemical investigations on 2A5NPTCA single crystal: A promising candidate for NLO and optical limiting applications. <i>Journal of Molecular Structure</i> , 2021, 1243, 130715.	3.6	10
17	Experimental investigation of performance tailoring of the multifunctional sensor using transition metal (Fe) doped ZnO nanorods synthesized via a facile solution-based method. <i>Nanotechnology</i> , 2022, 33, 035713.	2.6	8
18	Effect of tin oxide crystallite size on the efficacy of polyaniline-tin oxide nanocomposite based counter electrode for DSSC applications. <i>Optik</i> , 2017, 142, 436-445.	2.9	7

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19	Enhanced performance of 4,4'-bipyridine-doped PVDF/KI/I2 based solid state polymer electrolyte for dye-sensitized solar cell applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 18074-18081.	2.2	7
20	Comparative study on hydrothermally synthesized undoped and Vanadium doped Zinc Oxide nanorods for nanoelectromechanical systems low-frequency accelerometer application. Thin Solid Films, 2019, 680, 60-66.	1.8	7
21	Growth, structural, Hirshfeld surface, optical, laser damage threshold, dielectric and chemical etching analysis of 4-dimethylaminopyridinium 4-nitrophenolate 4-nitrophenol (DMAPNP) single crystal. Journal of Materials Science: Materials in Electronics, 2020, 31, 373-386.	2.2	7
22	Experimental Analysis of Transition Metal (Ni-V) Codoped ZnO Nanorods for Piezoelectric Accelerometer Application. IEEE Nanotechnology Magazine, 2020, 19, 728-735.	2.0	7
23	Low-temperature crystallization and growth of $\text{CsPbI}_2\text{Br}_2$ films through $\text{PbX}_2$ - $\text{DMSO}$ adduct towards stable and efficient carbon-based inorganic perovskite solar cells. International Journal of Energy Research, 2022, 46, 9310-9322.	4.5	7
24	Simulation Studies of Annealing Effect on a mc-Si Ingot for Photovoltaic Application. Silicon, 2018, 10, 1021-1033.	3.3	6
25	Simulation of directional solidification furnace with bottom opening insulation to grow quality mc-Si ingot for PV applications. International Journal of Materials Research, 2017, 108, 542-551.	0.3	5
26	An investigation on the growth and properties of KDP admixed ADP single crystals. Ferroelectrics, 2019, 550, 151-172.	0.6	5
27	Growth of 1, 3, 5 - Triphenylbenzene single crystal by modified vertical Bridgman method and its characterization for scintillation application. Journal of Luminescence, 2021, 230, 117699.	3.1	5
28	Structural, Electronic and Optical Properties of Inorganic Perovskite $\text{CsPb}_{1-x}\text{GexI}_3$ : A First Principle Approach. Materials Technology, 2022, 37, 1026-1030.	3.0	5
29	Exploring the structure, binding mode, flexibility and toxicity nature for Sinefungin molecule: a theoretical approach. Research on Chemical Intermediates, 2022, 48, 2745-2764.	2.7	5
30	Growth and electrical properties of self-flux method grown $(1-x)\text{Bi}_2\text{O}_3 \cdot x\text{BaTiO}_3$ single crystals across the morphotropic phase boundary. Journal of Materials Science: Materials in Electronics, 2020, 31, 9894-9903.	2.2	4
31	Investigation on crystallinity, stability and piezoelectricity of L-arginine 4-nitrophenolate 4-nitrophenol dihydrate single crystal. Optik, 2016, 127, 4007-4010.	2.9	3
32	Simulation and Experimental Approach to Investigate the Annealing Effect on mc-Si Ingot Grown by Directional Solidification Process for PV Application. Silicon, 2021, 13, 2569-2580.	3.3	3
33	Transient Simulation on the Growth of Mono-like Silicon Ingot in DS Process Using Crucible with Plano-Concave Bottom for PV Applications. Silicon, 2022, 14, 3653-3663.	3.3	3
34	Surface Texturing of the Multi-Crystalline Silicon Wafers Using Novel Non-Toxic Chemical Composition. Silicon, 2022, 14, 9987-9995.	3.3	3
35	Effects of 2-Amino-4,6-Dimethoxy pyrimidine on PVDF/KI/I2-Based Solid Polymer Electrolytes for Dye-Sensitized Solar Cell Application. Journal of Electronic Materials, 2020, 49, 3728-3734.	2.2	2
36	The Influence of Heat Flux Control Unit for Improving the Multi-Crystalline Silicon Ingot for Photovoltaic Application. Silicon, 2022, 14, 12437-12445.	3.3	2

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37	Sintering effect on tin oxide electrode for supercapacitor applications. AIP Conference Proceedings, 2017, , .	0.4	1
38	Experimental Study of Parametric Dependency of ZnO Nanorods-based Vibration Sensor. IETE Journal of Research, 2023, 69, 3616-3624.	2.6	1
39	The novel approach of stability aspect in organic oligoene dye for dye-sensitized solar cell applications. Journal of Solid State Electrochemistry, 2021, 25, 1949-1958.	2.5	1
40	<100> directed growth, Hirshfeld surface analysis, and scintillation properties of trans-Stilbene (TSB) single crystal grown by modified low-temperature vertical Bridgman method. Journal of Materials Science: Materials in Electronics, 2021, 32, 15200-15210.	2.2	1
41	Effect of amaranth dye on the growth and properties of conventional and SR method grown KAP single crystals. AIP Conference Proceedings, 2018, , .	0.4	0
42	Synthesis and characterization of organic 2-(cyano 3-(4-diphenylamino) phenyl) prop 2-enoic acid dye for electrochemical cell applications. AIP Conference Proceedings, 2019, , .	0.4	0
43	Influence of Refresh Hydrothermally Grown ZnO Nanorods for Vibration Sensing Application. IETE Journal of Research, 0, , 1-7.	2.6	0
44	Recovering resources from the end-of-life PV modules. AIP Conference Proceedings, 2020, , .	0.4	0
45	Vibration sensing analysis of ZnO nanorods grown using low-temperature aqueous growth method for varying durations. Journal of Materials Science: Materials in Electronics, 2022, 33, 7477-7486.	2.2	0