

# Ramasamy P

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Experimental Study of Parametric Dependency of ZnO Nanorods-based Vibration Sensor. IETE Journal of Research, 2023, 69, 3616-3624.	2.6	1
2	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
3	Structural, Electronic and Optical Properties of Inorganic Perovskite CsPb(1-x)GexI3: A First Principle Approach. Materials Technology, 2022, 37, 1026-1030.	3.0	5
4	Poly(vinylidene fluoride-co-hexafluoropropylene) additive in perovskite for stable performance of carbon-based perovskite solar cells. International Journal of Energy Research, 2022, 46, 1565-1574.	4.5	12
5	TiO2-CeO2/g-C3N4-scheme heterostructure composite for enhanced photo-degradation and hydrogen evolution performance with combined experimental and DFT study. Chemosphere, 2022, 288, 132611.	8.2	49
6	Experimental investigation of performance tailoring of the multifunctional sensor using transition metal (Fe) doped ZnO nanorods synthesized via a facile solution-based method. Nanotechnology, 2022, 33, 035713.	2.6	8
7	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
8	Surface Texturing of the Multi-Crystalline Silicon Wafers Using Novel Non-Toxic Chemical Composition. Silicon, 2022, 14, 9987-9995.	3.3	3
9	Low-temperature crystallization and growth of CsPbI <sub>2</sub> Br <sub>2</sub> films through PbX <sub>2</sub> • DMSO adduct towards stable and efficient carbon-based inorganic perovskite solar cells. International Journal of Energy Research, 2022, 46, 9310-9322.	4.5	7
10	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
11	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
12	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
13	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
14	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. Journal of Materials Science: Materials in Electronics, 2021, 32, 15026-15045.	2.2	12
15	Graphene oxide reinforced bismuth titanate for photocatalytic degradation of azo dye (DB15) prepared by hydrothermal method. Ceramics International, 2021, 47, 25074-25080.	4.8	22
16	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
17	<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
18	Synthesis, crystal growth, physico-chemical and quantum chemical investigations on 2A5NPTCA single crystal: A promising candidate for NLO and optical limiting applications. Journal of Molecular Structure, 2021, 1243, 130715.	3.6	10

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19	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
20	Experimental Analysis of Transition Metal (Ni-V) Codoped ZnO Nanorods for Piezoelectric Accelerometer Application. IEEE Nanotechnology Magazine, 2020, 19, 728-735.	2.0	7
21	Growth and electrical properties of self-flux method grown $(1-x)Bi_{1/2}Na_{1/2}TiO_3-xBaTiO_3$ single crystals across the morphotropic phase boundary. Journal of Materials Science: Materials in Electronics, 2020, 31, 9894-9903.	2.2	4
22	Growth, photoluminescence, lifetime, and laser damage threshold studies of 1, 3, 5-triphenylbenzene (TPB) single crystal for scintillation application. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	15
23	Effects of 2-Amino-4,6-Dimethoxypyrimidine 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
24	Recovering resources from the end-of-life PV modules. AIP Conference Proceedings, 2020, , .	0.4	0
25	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
26	Evaluation of Linear and Nonlinear Optical Properties of A Type 2-Amino-5-Nitropyridinium Dihydrogen Phosphate (2A5NPDP) Single Crystal Grown by the Modified Sankaranarayanan's (SR) Method for Terahertz Generation. Crystal Growth and Design, 2019, 19, 6873-6892.	3.0	22
27	An investigation on the growth and properties of KDP admixed ADP single crystals. Ferroelectrics, 2019, 550, 151-172.	0.6	5
28	Experimental Study of Different Vanadium Dopant Concentrations in ZnO Nanorods for a Low Frequency Piezoelectric Accelerometer. Journal of Electronic Materials, 2019, 48, 5310-5322.	2.2	14
29	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
30	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
31	Effect of Precursor Concentration on Structural, Morphological, and Optical Properties of ZnO Thin-Filmed Sensor for Ethanol Detection. IEEE Nanotechnology Magazine, 2018, 17, 169-176.	2.0	12
32	Simulation Studies of Annealing Effect on a mc-Si Ingot for Photovoltaic Application. Silicon, 2018, 10, 1021-1033.	3.3	6
33	Investigation of suitable binder combination and electrochemical charge transfer dynamics of vanadium carbide nanoparticles-based counter electrode in Pt-free dye-sensitized solar cell. Journal of Materials Science, 2018, 53, 4444-4455.	3.7	17
34	Fabrication of stable dye-sensitized solar cell with hydrothermally synthesized titanium dioxide nanorods as a photoanode material. Journal of Materials Science: Materials in Electronics, 2018, 29, 3736-3743.	2.2	13
35	Investigation on the Performance of Reduced Graphene Oxide as Counter Electrode in Dye Sensitized Solar Cell Applications. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800298.	1.8	26
36	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

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37	One step synthesis of tin oxide nanomaterials and their sintering effect in dye degradation. Optik, 2017, 135, 434-445.	2.9	10
38	Sintering effect on tin oxide electrode for supercapacitor applications. AIP Conference Proceedings, 2017, , .	0.4	1
39	Effect of tin oxide crystallite size on the efficacy of polyaniline-tin oxide nanocomposite based counter electrode for DSSC applications. Optik, 2017, 142, 436-445.	2.9	7
40	Hydrothermally derived nanoporous titanium dioxide nanorods/nanoparticles and their influence in dye-sensitized solar cell as a photoanode. Chemical Physics Letters, 2017, 689, 19-25.	2.6	20
41	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
42	Simulation analysis on impurity distribution in mc-Si grown by directional solidification for solar cell applications. International Journal of Materials Research, 2016, 107, 525-533.	0.3	15
43	Influence of zirconium dioxide and titanium dioxide binders on the photovoltaic performance of dye sensitized solar cell tungsten carbide nanorods based counter electrode. Electrochimica Acta, 2016, 211, 375-384.	5.2	19
44	Investigation on crystallinity, stability and piezoelectricity of l-arginine 4-nitrophenolate 4-nitrophenol dihydrate single crystal. Optik, 2016, 127, 4007-4010.	2.9	3
45	Influence of Refresh Hydrothermally Grown ZnO Nanorods for Vibration Sensing Application. IETE Journal of Research, 0, , 1-7.	2.6	0