

Jeyakumar Ramanujam

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,465
citations

623734

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477307

29
g-index

37
all docs

37
docs citations

37
times ranked

2113
citing authors

#	ARTICLE	IF	CITATIONS
1	Copper indium gallium selenide based solar cells – a review. Energy and Environmental Science, 2017, 10, 1306-1319.	30.8	522
2	Flexible CIGS, CdTe and a-Si:H based thin film solar cells: A review. Progress in Materials Science, 2020, 110, 100619.	32.8	270
3	Effect of absorber layer, hole transport layer thicknesses, and its doping density on the performance of perovskite solar cells by device simulation. Solar Energy, 2020, 196, 177-182.	6.1	193
4	Organic tandem solar cells with 18.6% efficiency. Solar Energy, 2020, 198, 160-166.	6.1	78
5	Silicon Nanowire Growth and Properties: A Review. Materials Express, 2011, 1, 105-126.	0.5	53
6	Inorganic photovoltaics – Planar and nanostructured devices. Progress in Materials Science, 2016, 82, 294-404.	32.8	50
7	Photovoltaic Properties of a-Si:H Films Grown by Plasma Enhanced Chemical Vapor Deposition: A Review. Materials Express, 2012, 2, 177-196.	0.5	38
8	Influence of Electron Transport Layer (TiO ₂) Thickness and Its Doping Density on the Performance of CH ₃ NH ₃ PbI ₃ -Based Planar Perovskite Solar Cells. Journal of Electronic Materials, 2020, 49, 3533-3539.	2.2	36
9	c-Si solar cells formed from spin-on phosphoric acid and boric acid. Renewable Energy, 2015, 80, 80-84.	8.9	25
10	Interface studies by simulation on methylammonium lead iodide based planar perovskite solar cells for high efficiency. Solar Energy, 2019, 190, 104-111.	6.1	24
11	Characterization of low permittivity (low-k) polymeric dielectric films for low temperature device integration. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 1149-1153.	2.1	22
12	Surface Passivation Schemes for High-Efficiency c-Si Solar Cells - A Review. Transactions on Electrical and Electronic Materials, 2015, 16, 227-233.	1.9	22
13	Fabrication of c-Si solar cells using boric acid as a spin-on dopant for back surface field. RSC Advances, 2014, 4, 4225-4229.	3.6	21
14	Two-dimensional simulation studies on high-efficiency point contact back heterojunction (a-Si:H/c-Si) solar cells. Solar Energy, 2014, 105, 109-115.	6.1	14
15	Preparation of Zn(In)Se films from alloyed precursors. Materials Research Bulletin, 2002, 37, 617-629.	5.2	13
16	Methylammonium lead bromide based planar perovskite solar cells using various electron transport layers. Solar Energy, 2021, 221, 456-467.	6.1	12
17	Electrical and optical characterization of SiO _x N _y and SiO ₂ dielectric layers and rear surface passivation by using SiO ₂ /SiO _x N _y stack layers with screen printed local Al-BSF for c-Si solar cells. Current Applied Physics, 2018, 18, 107-113.	2.4	11
18	Electrochemical preparation and characterization of copper indium diselenide thin films. Materials Research Bulletin, 1994, 29, 195-202.	5.2	10

#	ARTICLE	IF	CITATIONS
19	Fabrication and characterization of amorphous Si/crystalline Si heterojunction devices for photovoltaic applications. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2004, 22, 1015.	2.1	8
20	Influence of emitter bandgap on interdigitated point contact back heterojunction (a-Si:H/c-Si) solar cell performance. Solar Energy Materials and Solar Cells, 2013, 109, 199-203.	6.2	8
21	Surface passivation of boron emitters on n-type c-Si solar cells using silicon dioxide and a PECVD silicon oxynitride stack. RSC Advances, 2016, 6, 70040-70045.	3.6	8
22	A Fuzzy Based Model for Standardized Sustainability Assessment of Photovoltaic Cells. Sustainability, 2018, 10, 4787.	3.2	8
23	A modified two-stage process for the preparation of Zn(TeSe $_{1-x}$) films. Materials Research Bulletin, 1999, 34, 109-114.	5.2	4
24	Performance evaluation and optimization of CH ₃ NH ₃ PbBr ₃ based planar perovskite solar cells using various hole-transport layers. Solar Energy, 2022, 236, 832-840.	6.1	4
25	Plasma assisted two stage selenization process for the preparation of low resistivity ZnSe films. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1999, 17, 1549.	1.6	2
26	Integration issues for polymeric dielectrics in large area electronics [TFTs]. , 0, , .		2
27	High-efficiency c-Si based interdigitated point contact back heterojunction solar cells. Journal of Materials Science: Materials in Electronics, 2017, 28, 9697-9703.	2.2	2
28	Parametric investigation for the optimization of ZnSe film formation by low-pressure Se vapour selenization process. Vacuum, 1999, 55, 71-76.	3.5	1
29	Synthesis and characterization of low-k films for large area imaging applications. Microelectronic Engineering, 2012, 99, 58-61.	2.4	1
30	Theoretical investigation of the oxygen bond dissociation energies in graphene oxide. , 2015, , .		1
31	Modeling of Plasmonic Organic Solar Cells using Core-Shell Metallic Nanoparticles. , 2020, , .		1
32	Effect of Ion-Accelerated Plasma Hydrogenation and Thermal Treatments on Hydrogen Silsesquioxane (HSQ) Low-K Dielectric Films. Materials Research Society Symposia Proceedings, 2002, 716, 7241.	0.1	1
33	Synthesis and Characterization of Methyltriethoxysilane Based Low Permittivity (Low-k) Polymeric Dielectrics. Materials Research Society Symposia Proceedings, 2002, 716, 7231.	0.1	0
34	Novel method for the synthesis of conjugated polymer " Single-wall carbon nanotube nanowires. , 2017, , .		0
35	Development of Heterocyclic-C61-butyrac Acid Methyl Ester/ Pyrazine (HCBM-Pyrazine) acceptor material for organic solar cells applications. , 2019, , .		0
36	TDDFT Studies on Sheet Size-Dependency of Optoelectronic Properties of 2D Silicon Doped with Alkali Metals. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
37	Designing of PCBM Derivative using Pyridazine Compound for More Efficient Bulk Heterojunction Organic Solar Cell. , 2021, , .		0