

Nair LÃ³pez

List of Publications by Year in descending order

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29
papers

2,135
citations

471509

17
h-index

642732

23
g-index

29
all docs

29
docs citations

29
times ranked

1442
citing authors

#	ARTICLE	IF	CITATIONS
1	Production of Photocurrent due to Intermediate-to-Conduction-Band Transitions: A Demonstration of a Key Operating Principle of the Intermediate-Band Solar Cell. <i>Physical Review Letters</i> , 2006, 97, 247701.	7.8	498
2	Engineering the Electronic Band Structure for Multiband Solar Cells. <i>Physical Review Letters</i> , 2011, 106, 028701.	7.8	282
3	Emitter degradation in quantum dot intermediate band solar cells. <i>Applied Physics Letters</i> , 2007, 90, 233510.	3.3	210
4	General equivalent circuit for intermediate band devices: Potentials, currents and electroluminescence. <i>Journal of Applied Physics</i> , 2004, 96, 903-909.	2.5	199
5	Experimental analysis of the quasi-Fermi level split in quantum dot intermediate-band solar cells. <i>Applied Physics Letters</i> , 2005, 87, 083505.	3.3	189
6	Novel semiconductor solar cell structures: The quantum dot intermediate band solar cell. <i>Thin Solid Films</i> , 2006, 511-512, 638-644.	1.8	170
7	Operation of the intermediate band solar cell under nonideal space charge region conditions and half filling of the intermediate band. <i>Journal of Applied Physics</i> , 2006, 99, 094503.	2.5	138
8	Elements of the design and analysis of quantum-dot intermediate band solar cells. <i>Thin Solid Films</i> , 2008, 516, 6716-6722.	1.8	106
9	Experimental Analysis of the Operation of Quantum Dot Intermediate Band Solar Cells. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2007, 129, 319-322.	1.8	42
10	Disorder and variable-range hopping conductivity in Cu ₂ ZnSnS ₄ thin films prepared by flash evaporation and post-thermal treatment. <i>Journal of Alloys and Compounds</i> , 2014, 596, 140-144.	5.5	40
11	Application of the photorefectance technique to the characterization of quantum dot intermediate band materials for solar cells. <i>Thin Solid Films</i> , 2008, 516, 6943-6947.	1.8	38
12	Demonstration of ZnTe _{1-x} O _x Intermediate Band Solar Cell. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 082304.	1.5	37
13	Low temperature characterization of the photocurrent produced by two-photon transitions in a quantum dot intermediate band solar cell. <i>Thin Solid Films</i> , 2008, 516, 6919-6923.	1.8	36
14	Spectroscopic ellipsometry study of Cu ₂ ZnSnSe ₄ bulk crystals. <i>Applied Physics Letters</i> , 2014, 105, 061909.	3.3	26
15	Electrolyte electroreflectance study of carbon monoxide adsorption on polycrystalline silver and gold electrodes. <i>Electrochimica Acta</i> , 2003, 48, 2949-2956.	5.2	21
16	High Efficiency Si Solar Cells Characterization Using Impedance Spectroscopy Analysis. <i>Journal of Physics: Conference Series</i> , 2015, 647, 012069.	0.4	21
17	Intermediate band solar cells: Comparison with shockley-read-hall recombination. <i>Semiconductors</i> , 2004, 38, 946-949.	0.5	18
18	Single GaAs nanowire based photodetector fabricated by dielectrophoresis. <i>Nanotechnology</i> , 2020, 31, 225604.	2.6	15

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19	Multicolor Electroluminescence from Intermediate Band Solar Cell Structures. <i>Advanced Energy Materials</i> , 2016, 6, 1501820.	19.5	13
20	GaAs nanowires grown by Ga-assisted chemical beam epitaxy: Substrate preparation and growth kinetics. <i>Journal of Crystal Growth</i> , 2015, 430, 108-115.	1.5	10
21	A Novel Growth Method To Improve the Quality of GaAs Nanowires Grown by Ga-Assisted Chemical Beam Epitaxy. <i>Nano Letters</i> , 2018, 18, 3608-3615.	9.1	8
22	Demonstration of ZnTe _{1-x} O _x Intermediate Band Solar Cell. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 082304.	1.5	8
23	Progress towards the practical implementation of the intermediate band solar cell. , 0, , .		4
24	Growth of GaP _{1-x} As _x on Si substrates by chemical beam epitaxy. <i>Journal of Applied Physics</i> , 2019, 126, 105704.	2.5	4
25	On the growth mechanisms of GaAs nanowires by Ga-assisted chemical beam epitaxy. , 2015, , .		1
26	Photodetector fabrication by dielectrophoretic assembly of GaAs nanowires grown by a two-steps method. , 2017, , .		1
27	Development of intermediate band solar cell based on ZnTe _{1-x} O _x synthesized by oxygen ion implantation. , 2011, , .		0
28	Intermediate band solar cell: Proof of concept. , 2011, , .		0
29	Fabrication and characterization of multiband solar cells based on highly mismatched alloys. <i>Journal of Physics: Conference Series</i> , 2015, 647, 012067.	0.4	0