

# Pablo Garcia-Linares

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

1,850  
citations

331538

21  
h-index

276775

41  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1264  
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.	2.9	498
2	Reducing carrier escape in the InAs/GaAs quantum dot intermediate band solar cell. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	156
3	Elements of the design and analysis of quantum-dot intermediate band solar cells. <i>Thin Solid Films</i> , 2008, 516, 6716-6722.	0.8	106
4	Voltage recovery in intermediate band solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 98, 240-244.	3.0	77
5	III-V compound semiconductor screening for implementing quantum dot intermediate band solar cells. <i>Journal of Applied Physics</i> , 2011, 109, 014313.	1.1	58
6	Self-organized colloidal quantum dots and metal nanoparticles for plasmon-enhanced intermediate-band solar cells. <i>Nanotechnology</i> , 2013, 24, 345402.	1.3	54
7	Intraband absorption for normal illumination in quantum dot intermediate band solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 2032-2035.	3.0	46
8	Multiple levels in intermediate band solar cells. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	46
9	New Hamiltonian for a better understanding of the quantum dot intermediate band solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 2095-2101.	3.0	45
10	Understanding the operation of quantum dot intermediate band solar cells. <i>Journal of Applied Physics</i> , 2012, 111, 044502.	1.1	41
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.	0.8	38
12	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.	0.8	36
13	Photovoltaic Anodes for Enhanced Thermionic Energy Conversion. <i>ACS Energy Letters</i> , 2020, 5, 1364-1370.	8.8	35
14	High open-circuit voltage in transition metal dichalcogenide solar cells. <i>Nano Energy</i> , 2021, 79, 105427.	8.2	31
15	Some advantages of intermediate band solar cells based on type II quantum dots. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	30
16	Advances in quantum dot intermediate band solar cells. , 2010, , .		29
17	Radiative thermal escape in intermediate band solar cells. <i>AIP Advances</i> , 2011, 1, .	0.6	29
18	Symmetry considerations in the empirical k.p Hamiltonian for the study of intermediate band solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 103, 171-183.	3.0	26

#	ARTICLE	IF	CITATIONS
19	InAs/AlGaAs quantum dot intermediate band solar cells with enlarged sub-bandgaps. , 2012, , .		25
20	Demonstration of the operation principles of intermediate band solar cells at room temperature. Solar Energy Materials and Solar Cells, 2016, 149, 15-18.	3.0	25
21	Monolithic interconnected modules (MIM) for high irradiance photovoltaic energy conversion: A comprehensive review. Renewable and Sustainable Energy Reviews, 2017, 73, 477-495.	8.2	25
22	Understanding experimental characterization of intermediate band solar cells. Journal of Materials Chemistry, 2012, 22, 22832.	6.7	24
23	Extreme voltage recovery in GaAs:Ti intermediate band solar cells. Solar Energy Materials and Solar Cells, 2013, 108, 175-179.	3.0	22
24	Three-Bandgap Absolute Quantum Efficiency in GaSb/GaAs Quantum Dot Intermediate Band Solar Cells. IEEE Journal of Photovoltaics, 2017, 7, 508-512.	1.5	21
25	Six not-so-easy pieces in intermediate band solar cell research. Journal of Photonics for Energy, 2013, 3, 031299.	0.8	20
26	<math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="s1.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mstyle		

#	ARTICLE	IF	CITATIONS
37	Low-Temperature Concentrated Light Characterization Applied to Intermediate Band Solar Cells. IEEE Journal of Photovoltaics, 2013, 3, 753-761.	1.5	10
38	Manufacturing and Characterization of III-V on Silicon Multijunction Solar Cells. Energy Procedia, 2016, 92, 242-247.	1.8	10
39	Spectrally-resolved measurement of concentrated light distributions for Fresnel lens concentrators. Optics Express, 2016, 24, A397.	1.7	10
40	Six not so easy pieces in intermediate band solar cell research. , 2013, , .		9
41	Two-photon photocurrent and voltage up-conversion in a quantum dot intermediate band solar cell. , 2014, , .		9
42	Hot carrier solar cells: Challenges and recent progress. , 2010, , .		7
43	The effect of concentration on the performance of quantum dot intermediate-band solar cells. , 2012, , .		7
44	Interpretation of photovoltaic performance of n-ZnO:Al/ZnS:Cr/p-GaP solar cell. Solar Energy Materials and Solar Cells, 2017, 169, 56-60.	3.0	7
45	Demonstrating the GaInP/GaAs Three-Terminal Heterojunction Bipolar Transistor Solar Cell. , 2019, , .		7
46	Considerations for the Design of a Heterojunction Bipolar Transistor Solar Cell. IEEE Journal of Photovoltaics, 2020, 10, 2-7.	1.5	7
47	Application of photoluminescence and electroluminescence techniques to the characterization of intermediate band solar cells. Energy Procedia, 2011, 10, 117-121.	1.8	6
48	Effect of the encapsulant temperature on the angular and spectral response of multi-junction solar cells. , 2014, , .		6
49	Improving optical performance of concentrator cells by means of a deposited nanopattern layer. AIP Conference Proceedings, 2015, , .	0.3	6
50	Characterization of Multijunction Concentrator Solar Cells. Green Energy and Technology, 2015, , 39-84.	0.4	6
51	Progress in three-terminal heterojunction bipolar transistor solar cells. Progress in Photovoltaics: Research and Applications, 2022, 30, 843-850.	4.4	6
52	IBPOWER: Intermediate band materials and solar cells for photovoltaics with high efficiency and reduced cost. , 2009, , .		5
53	Advances on multijunction solar cell characterization aimed at the optimization of real concentrator performance. , 2014, , .		5
54	Heterojunction Band Offset Limitations on Open-Circuit Voltage in $\text{p-ZnTe/n-TiO}_2/\text{ZnTe/Si}^2\text{S}_2$ Solar Cells. IEEE Journal of Photovoltaics, 2015, 5, 874-877.	1.5	5

#	ARTICLE	IF	CITATIONS
55	III-V-on-silicon triple-junction based on the heterojunction bipolar transistor solar cell concept. , 2020, , .		4
56	Wafer-Bonded AlGaAs//Si Dual-Junction Solar Cells. , 2017, , .		3
57	A puzzling solar cell structure: An exercise to get insight on intermediate band solar cells. , 2013, , .		2
58	âœMETHODâœ: A tool for mechanical, electrical, thermal, and optical characterization of single lens module design. AIP Conference Proceedings, 2015, , .	0.3	2
59	Potential of the three-terminal heterojunction bipolar transistor solar cell for space applications. , 2019, , .		2
60	Modelling of quantum dot solar cells for concentrator PV applications. , 2011, , .		1
61	Intermediate Band Solar Cells. Advances in Chemical and Materials Engineering Book Series, 0, , 188-213.	0.2	1
62	Developing a highly integrated receiverless low concentration module with III-V multijunction cells. AIP Conference Proceedings, 2016, , .	0.3	1
63	Characterization of the influence of temperature on achromatic mirrors by means of METHOD. AIP Conference Proceedings, 2016, , .	0.3	1
64	Reduction of front-metallization grid shading in concentrator cells through laser micro-grooved cover glass. AIP Conference Proceedings, 2015, , .	0.3	0
65	HIT intermediate-band solar cells with self-assembled colloidal quantum dots and metal nanoparticles. , 2015, , .		0
66	CURRICULAR EXPERIENTIAL LEARNING THROUGH A BLENDED COURSE OF COOPERATION FOR DEVELOPMENT IN WATER AND SANITATION. EDULEARN Proceedings, 2018, , .	0.0	0
67	High open-circuit voltage Mos2 homojunction - effect of Schottky barriers at the contacts. , 2020, , .		0