Pedro Perez-Higueras

List of Publications by Year
in descending order

20	377	1040056 9	888059 17
papers	citations	h-index	g-index

21	21	21	235
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Outdoor evaluation of concentrator photovoltaic systems modules from different manufacturers: first results and steps. Progress in Photovoltaics: Research and Applications, 2013, 21, 693-701.	8.1	76
2	A >3000 suns high concentrator photovoltaic design based on multiple Fresnel lens primaries focusing to one central solar cell. Solar Energy, 2018, 169, 457-467.	6.1	55
3	Efficiency and acceptance angle of High Concentrator Photovoltaic modules: Current status and indoor measurements. Renewable and Sustainable Energy Reviews, 2018, 94, 143-153.	16.4	51
4	Optical modeling of four Fresnel-based high-CPV units. Solar Energy, 2017, 155, 805-815.	6.1	40
5	Current-voltage dynamics of multi-junction CPV modules under different irradiance levels. Solar Energy, 2017, 155, 39-50.	6.1	33
6	Development, indoor characterisation and comparison to optical modelling of four Fresnel-based high-CPV units equipped with refractive secondary optics. Solar Energy Materials and Solar Cells, 2018, 186, 273-283.	6.2	28
7	Optical design of a 4-off-axis-unit Cassegrain ultra-high concentrator photovoltaics module with a central receiver. Optics Letters, 2016, 41, 1985.	3.3	23
8	Performance Analysis of Models for Calculating the Maximum Power of High Concentrator Photovoltaic Modules. IEEE Journal of Photovoltaics, 2015, 5, 947-955.	2.5	18
9	Exploring ultra-high concentrator photovoltaic Cassegrain-Koehler-based designs up to 6000Ã—. Optics Express, 2020, 28, 6609.	3.4	17
10	Experimental set-up for testing MJ photovoltaic cells under ultra-high irradiance levels with temperature and spectrum control. Measurement: Journal of the International Measurement Confederation, 2020, 165, 108092.	5.0	9
11	Ray Tracing Comparison between Triple-Junction and Four-Junction Solar Cells in PMMA Fresnel-Based High-CPV Units. Energies, 2018, 11, 2455.	3.1	8
12	Knowledge-Based Sensors for Controlling A High-Concentration Photovoltaic Tracker. Sensors, 2020, 20, 1315.	3.8	5
13	Performance analysis of the lineal model for estimating the maximum power of a HCPV module in different climate conditions. , 2014, , .		4
14	Optimization of an ultra-high CPV Cassegrain-Koehler unit with 2000Ã— concentration ratio. AIP Conference Proceedings, 2019, , .	0.4	3
15	High-Concentrator Photovoltaic Power Plants: Energy Balance and Case Studies. Green Energy and Technology, 2015, , 443-477.	0.6	2
16	Design and characterization of refractive secondary optical elements for a point-focus Fresnel lens-based high CPV system. AIP Conference Proceedings, 2017, , .	0.4	2
17	Analytical transfer equations for the spectral modelling of IIIâ€“V multi-junction concentrator solar cells. , 2017, , .		1
18	Finite element analysis of cooling mechanism by flat heat-sinks in ultra-high CPV systems. AIP Conference Proceedings, 2019, , .	0.4	1

#	Article	IF	Citations
19	Investigating the optical performance of Cassegrainian systems at ultra-high concentrations. AIP Conference Proceedings, 2016, , .	0.4	0
20	Indoor characterization and comparison with optical modelling of four Fresnel-based High-CPV units equipped with secondary optics. AIP Conference Proceedings, 2018, , .	0.4	0