Pedro Perez-Higueras

List of Publications by Year
in descending order

20 papers	377 citations	1040056 9 h-index	888059 17 g-index
21 all docs	21 docs citations	21 times ranked	235 citing authors

#	Article	IF	Citations
1	Knowledge-Based Sensors for Controlling A High-Concentration Photovoltaic Tracker. Sensors, 2020, 20, 1315.	3.8	5
2	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
3	Exploring ultra-high concentrator photovoltaic Cassegrain-Koehler-based designs up to 6000Ã—. Optics Express, 2020, 28, 6609.	3.4	17
4	Optimization of an ultra-high CPV Cassegrain-Koehler unit with 2000Ã— concentration ratio. AIP Conference Proceedings, 2019, , .	0.4	3
5	Finite element analysis of cooling mechanism by flat heat-sinks in ultra-high CPV systems. AIP Conference Proceedings, 2019, , .	0.4	1
6	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
7	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
8	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
9	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
10	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
11	Current-voltage dynamics of multi-junction CPV modules under different irradiance levels. Solar Energy, 2017, 155, 39-50.	6.1	33
12	Analytical transfer equations for the spectral modelling of IIIâ€"V multi-junction concentrator solar cells. , 2017, , .		1
13	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
14	Optical modeling of four Fresnel-based high-CPV units. Solar Energy, 2017, 155, 805-815.	6.1	40
15	Investigating the optical performance of Cassegrainian systems at ultra-high concentrations. AIP Conference Proceedings, 2016, , .	0.4	0
16	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
17	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
18	High-Concentrator Photovoltaic Power Plants: Energy Balance and Case Studies. Green Energy and Technology, 2015, , 443-477.	0.6	2

#	Article	IF	Citations
19	Performance analysis of the lineal model for estimating the maximum power of a HCPV module in different climate conditions. , 2014, , .		4
20	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