

# M Carmen Alonso-García

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

1,556  
citations

623699

14  
h-index

552766

26  
g-index

28  
all docs

28  
docs citations

28  
times ranked

1580  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study of mismatch and shading effects in the $I-V$ characteristic of a photovoltaic module. Solar Energy Materials and Solar Cells, 2006, 90, 329-340.	6.2	308
2	Early degradation of silicon PV modules and guaranty conditions. Solar Energy, 2011, 85, 2264-2274.	6.1	301
3	Estimation of photovoltaic module yearly temperature and performance based on Nominal Operation Cell Temperature calculations. Renewable Energy, 2004, 29, 1997-2010.	8.9	259
4	Computer simulation of shading effects in photovoltaic arrays. Renewable Energy, 2006, 31, 1986-1993.	8.9	125
5	Analysis and modelling the reverse characteristic of photovoltaic cells. Solar Energy Materials and Solar Cells, 2006, 90, 1105-1120.	6.2	110
6	Thermal and electrical effects caused by outdoor hot-spot testing in associations of photovoltaic cells. Progress in Photovoltaics: Research and Applications, 2003, 11, 293-307.	8.1	76
7	Projection of the photovoltaic waste in Spain until 2050. Journal of Cleaner Production, 2018, 196, 1613-1628.	9.3	53
8	Characterization of thin film PV modules under standard test conditions: Results of indoor and outdoor measurements and the effects of sunlight exposure. Solar Energy, 2012, 86, 3049-3056.	6.1	42
9	Optimum inverter sizing of grid-connected photovoltaic systems based on energetic and economic considerations. Renewable Energy, 2018, 118, 709-717.	8.9	37
10	Nondestructive characterization of solar PV cells defects by means of electroluminescence, infrared thermography, $I-V$ curves and visual tests: Experimental study and comparison. Energy, 2020, 205, 117930.	8.8	34
11	Techno-Economic Viability of Agro-Photovoltaic Irrigated Arable Lands in the EU-Med Region: A Case-Study in Southwestern Spain. Agronomy, 2021, 11, 593.	3.0	28
12	On the use of reference modules as irradiance sensor for monitoring and modelling rooftop PV systems. Renewable Energy, 2017, 106, 186-191.	8.9	26
13	Seasonal performance comparison of three grid connected photovoltaic systems based on different technologies operating under the same conditions. Solar Energy, 2017, 144, 798-807.	6.1	26
14	Analysis of Potential-Induced Degradation in Soda-Lime Glass and Borosilicate-Glass $Cu(In,Ga)Se_2$ Samples. IEEE Journal of Photovoltaics, 2019, 9, 331-338.	2.5	17
15	Infrared Thermography for the Detection and Characterization of Photovoltaic Defects: Comparison between Illumination and Dark Conditions. Sensors, 2020, 20, 4395.	3.8	15
16	Influence of initial power stabilization over crystalline $Si$ photovoltaic modules maximum power. Progress in Photovoltaics: Research and Applications, 2011, 19, 417-422.	8.1	12
17	Modeling I-V curves of photovoltaic modules at indoor and outdoor conditions by using the Lambert function. Energy Conversion and Management, 2019, 195, 1004-1011.	9.2	12
18	Low-Cost Electronics for Online I-V Tracing at Photovoltaic Module Level: Development of Two Strategies and Comparison between Them. Electronics (Switzerland), 2021, 10, 671.	3.1	12

#	ARTICLE	IF	CITATIONS
19	Evaluation of color changes in PV modules using reflectance measurements. Solar Energy, 2019, 177, 531-537.	6.1	11
20	A comparative study of the impact of horizontal-to-tilted solar irradiance conversion in modelling small PV array performance. Journal of Renewable and Sustainable Energy, 2016, 8, 053501.	2.0	10
21	A model for the series-parallel association of photovoltaic devices. Progress in Photovoltaics: Research and Applications, 2006, 14, 237-247.	8.1	9
22	Photovoltaic generation on vertical façades in urban context from open satellite-derived solar resource data. Solar Energy, 2021, 224, 1396-1405.	6.1	9
23	Method for module Rsh determination and its comparison with standard methods. Solar Energy, 2014, 109, 189-199.	6.1	8
24	Online Distributed Measurement of Dark I-V Curves in Photovoltaic Plants. Applied Sciences (Switzerland), 2021, 11, 1924.	2.5	6
25	Evaluation of Artificial Intelligence-Based Models for Classifying Defective Photovoltaic Cells. Applied Sciences (Switzerland), 2021, 11, 4226.	2.5	6
26	Modelling the performance of rooftop photovoltaic systems under urban Mediterranean outdoor conditions. Journal of Renewable and Sustainable Energy, 2016, 8, .	2.0	4
27	Technical Analysis of Photovoltaic Modules with 20 Years of Tropical Weather Outdoor Exposure. Applied Mechanics and Materials, 0, 472, 562-566.	0.2	0
28	Efficiency optimization of a photovoltaic water pumping system for irrigation in Ouargla, Algeria. AIP Conference Proceedings, 2017, . .	0.4	0