

Jorge Aguilera

List of Publications by Year in descending order

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53
papers

1,943
citations

257450

24
h-index

254184

43
g-index

54
all docs

54
docs citations

54
times ranked

1747
citing authors

#	ARTICLE	IF	CITATIONS
1	Economics of seasonal photovoltaic soiling and cleaning optimization scenarios. <i>Energy</i> , 2021, 215, 119018.	8.8	48
2	Experimental Evaluation of a Spectral Index to Characterize Temporal Variations in the Direct Normal Irradiance Spectrum. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 897.	2.5	4
3	A set of principles for applying Circular Economy to the PV industry: Modeling a closed-loop material cycle system for crystalline photovoltaic panels. <i>Sustainable Production and Consumption</i> , 2021, 28, 164-179.	11.0	17
4	Feasibility evaluation of residential photovoltaic self-consumption projects in Peru. <i>Renewable Energy</i> , 2019, 136, 414-427.	8.9	25
5	Lessons learned from the field analysis of PV installations in the Saharawi refugee camps after 10 years of operation. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 93, 100-109.	16.4	24
6	An experimental comparison between commercial hybrid PV-T and simple PV systems intended for BIPV. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 93, 110-120.	16.4	51
7	Influence of Operation and Maintenance expenditures in the feasibility of photovoltaic projects: The case of a tracking pv plant in Spain. <i>Energy Policy</i> , 2018, 121, 506-518.	8.8	22
8	Is the average photon energy a unique characteristic of the spectral distribution of global irradiance?. <i>Solar Energy</i> , 2017, 149, 32-43.	6.1	41
9	Cradle-to-cradle approach in the life cycle of silicon solar photovoltaic panels. <i>Journal of Cleaner Production</i> , 2017, 168, 51-59.	9.3	33
10	Spectral characterization of the solar resource of a sunny inland site for flat plate and concentrating PV systems. <i>Renewable Energy</i> , 2017, 101, 1169-1179.	8.9	6
11	Analysing Concentrating Photovoltaics Technology Through the Use of Emerging Pattern Mining. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 334-344.	0.6	9
12	Estimating the Maximum Power Delivered by Concentrating Photovoltaics Technology Through Atmospheric Conditions Using a Differential Evolution Approach. <i>Lecture Notes in Computer Science</i> , 2016, , 273-282.	1.3	0
13	DC energy yield prediction in large monocrystalline and polycrystalline PV plants: Time-domain integration of Osterwald's model. <i>Energy</i> , 2016, 114, 951-960.	8.8	16
14	Comparative assessment of the spectral impact on the energy yield of high concentrator and conventional photovoltaic technology. <i>Solar Energy Materials and Solar Cells</i> , 2016, 147, 185-197.	6.2	60
15	CPV module electric characterisation by artificial neural networks. <i>Renewable Energy</i> , 2015, 78, 173-181.	8.9	23
16	A differential evolution proposal for estimating the maximum power delivered by CPV modules under real outdoor conditions. <i>Expert Systems With Applications</i> , 2015, 42, 5452-5462.	7.6	13
17	Design of an accurate, low-cost autonomous data logger for PV system monitoring using Arduino, that complies with IEC standards. <i>Solar Energy Materials and Solar Cells</i> , 2014, 130, 529-543.	6.2	126
18	Modelling the influence of atmospheric conditions on the outdoor real performance of a CPV (Concentrated Photovoltaic) module. <i>Energy</i> , 2014, 70, 239-250.	8.8	44

#	ARTICLE	IF	CITATIONS
19	Design of the back-up system in Patio 2.12 photovoltaic installation. Energy and Buildings, 2014, 83, 130-139.	6.7	10
20	Video-sharing educational tool applied to the teaching in renewable energy subjects. Computers and Education, 2014, 73, 160-177.	8.3	45
21	A bankable method of assessing the performance of a CPV plant. Applied Energy, 2014, 118, 1-11.	10.1	45
22	MEFES: An evolutionary proposal for the detection of exceptions in subgroup discovery. An application to Concentrating Photovoltaic Technology. Knowledge-Based Systems, 2013, 54, 73-85.	7.1	18
23	Characterization of Concentrating Photovoltaic modules by cooperative competitive Radial Basis Function Networks. Expert Systems With Applications, 2013, 40, 1599-1608.	7.6	25
24	Sensitivity Analysis on Some Profitability Indices for Photovoltaic Grid-Connected Systems on Buildings: The Case of Two Top Photovoltaic European Areas. Journal of Solar Energy Engineering, Transactions of the ASME, 2013, 135, .	1.8	10
25	An evolutionary fuzzy system for the detection of exceptions in subgroup discovery. , 2013, , .		0
26	A Performance Study of Concentrating Photovoltaic Modules Using Neural Networks: An Application with CO ₂ RBFN. Advances in Intelligent Systems and Computing, 2013, , 439-448.	0.6	0
27	Analysis and characterization of an outdoor CPV system comparative with other PV technologies. , 2012, , .		2
28	A comprehensive method for estimating energy losses due to shading of GC-BIPV systems using monitoring data. Solar Energy, 2012, 86, 2397-2404.	6.1	34
29	A method for evaluating shading losses involved in a GC-BIPV using real data. , 2012, , .		1
30	Procedure to carry out quality checks in photovoltaic grid-connected systems: Six cases of study. Applied Energy, 2011, 88, 2863-2870.	10.1	16
31	The internal rate of return of photovoltaic grid-connected systems: A comprehensive sensitivity analysis. Renewable Energy, 2010, 35, 101-111.	8.9	66
32	CPV standardization: An overview. Renewable and Sustainable Energy Reviews, 2010, 14, 518-523.	16.4	29
33	Forecasting photovoltaic array power production subject to mismatch losses. Solar Energy, 2010, 84, 1301-1309.	6.1	203
34	Changing photovoltaic array interconnections to reduce mismatch losses: a case study. , 2010, , .		58
35	An Assessment on Simple Modeling Approaches to the Electric Behavior of Two CIS PV Modules in a Sunny Climate. Journal of Solar Energy Engineering, Transactions of the ASME, 2009, 131, .	1.8	12
36	Estimation of the potential array output charge in the performance analysis of stand-alone photovoltaic systems without MPPT (Case study: Mediterranean climate). Solar Energy, 2009, 83, 1985-1997.	6.1	16

#	ARTICLE	IF	CITATIONS
37	A new estimation method of irradiance on a partially shaded PV generator in grid-connected photovoltaic systems. <i>Renewable Energy</i> , 2008, 33, 2048-2056.	8.9	115
38	RMS Current of a Photovoltaic Generator in Grid-Connected PV Systems: Definition and Application. <i>International Journal of Photoenergy</i> , 2008, 2008, 1-7.	2.5	13
39	Application and validation of algebraic methods to predict the behaviour of crystalline silicon PV modules in Mediterranean climates. <i>Solar Energy</i> , 2007, 81, 1396-1408.	6.1	144
40	Univer Project. A grid connected photovoltaic system of 200kWp at Ja�n University. Overview and performance analysis. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 670-683.	6.2	101
41	Tables for the estimation of the internal rate of return of photovoltaic grid-connected systems. <i>Renewable and Sustainable Energy Reviews</i> , 2007, 11, 447-466.	16.4	50
42	A reference-module-based procedure for outdoor estimation of crystalline silicon PV module peak power. <i>Progress in Photovoltaics: Research and Applications</i> , 2006, 14, 77-87.	8.1	15
43	Characterisation of charge voltage of lead-acid batteries: application to the charge control strategy in photovoltaic systems. <i>Progress in Photovoltaics: Research and Applications</i> , 2006, 14, 721-732.	8.1	2
44	A new approach for sizing stand alone photovoltaic systems based in neural networks. <i>Solar Energy</i> , 2005, 78, 313-319.	6.1	76
45	An application of the multilayer perceptron: Solar radiation maps in Spain. <i>Solar Energy</i> , 2005, 79, 523-530.	6.1	67
46	Tools for the profitability analysis of grid-connected photovoltaics. <i>Progress in Photovoltaics: Research and Applications</i> , 2002, 10, 555-570.	8.1	28
47	Generation of hourly irradiation synthetic series using the neural network multilayer perceptron. <i>Solar Energy</i> , 2002, 72, 441-446.	6.1	107
48	Measures used to protect people exposed to a PV generator: univer project�. <i>Progress in Photovoltaics: Research and Applications</i> , 2001, 9, 57-67.	8.1	13
49	Recurrent Neural Supervised Models for Generating Solar Radiation Synthetic Series. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2001, 31, 201-221.	3.4	43
50	A neural network approach for generating solar irradiation artificial series. <i>Lecture Notes in Computer Science</i> , 1999, , 874-883.	1.3	7
51	Rural photovoltaic electrification programme on the Bolivian high plateau. <i>Progress in Photovoltaics: Research and Applications</i> , 1996, 4, 77-84.	8.1	10
52	Rural photovoltaic electrification programme on the Bolivian high plateau. <i>Progress in Photovoltaics: Research and Applications</i> , 1996, 4, 77-84.	8.1	0
53	Universidad Verde-200 kWp grid connected PV system. , 0, , .		0