

# Llanos Mora-LÃ³pez

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,087  
citations

393982

19  
h-index

414034

32  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1138  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiplicative ARMA models to generate hourly series of global irradiation. <i>Solar Energy</i> , 1998, 63, 283-291.	2.9	98
2	Performance analysis of a grid-connected photovoltaic system. <i>Energy</i> , 1999, 24, 93-102.	4.5	88
3	A simple model for sizing stand alone photovoltaic systems. <i>Solar Energy Materials and Solar Cells</i> , 1998, 55, 199-214.	3.0	79
4	Losses produced by soiling in the incoming radiation to photovoltaic modules. <i>Progress in Photovoltaics: Research and Applications</i> , 2013, 21, 790-796.	4.4	71
5	Modeling and forecasting hourly global solar radiation using clustering and classification techniques. <i>Solar Energy</i> , 2016, 135, 682-691.	2.9	70
6	Parameters extraction of single diode model for degraded photovoltaic modules. <i>Renewable Energy</i> , 2021, 164, 674-686.	4.3	48
7	Comparison of two PV array models for the simulation of PV systems using five different algorithms for the parameters identification. <i>Renewable Energy</i> , 2016, 99, 270-279.	4.3	46
8	Experimental system for current-voltage curve measurement of photovoltaic modules under outdoor conditions. <i>Progress in Photovoltaics: Research and Applications</i> , 2011, 19, 591-602.	4.4	39
9	Remote supervision and fault detection on OPC monitored PV systems. <i>Solar Energy</i> , 2016, 137, 424-433.	2.9	38
10	Measuring urban energy sustainability and its application to two Spanish cities: Malaga and Barcelona. <i>Sustainable Cities and Society</i> , 2019, 45, 335-347.	5.1	38
11	A general multivariate qualitative model for sizing stand-alone photovoltaic systems. <i>Solar Energy Materials and Solar Cells</i> , 1999, 59, 185-197.	3.0	37
12	Evaluation of a grid-connected photovoltaic system in southern Spain. <i>Renewable Energy</i> , 1998, 15, 527-530.	4.3	36
13	Multilayer perceptron applied to the estimation of the influence of the solar spectral distribution on thin-film photovoltaic modules. <i>Applied Energy</i> , 2013, 112, 610-617.	5.1	32
14	A new model to predict the energy generated by a photovoltaic system connected to the grid in low latitude countries. <i>Solar Energy</i> , 2014, 107, 423-442.	2.9	31
15	Modelling photovoltaic modules with neural networks using angle of incidence and clearness index. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 513-523.	4.4	26
16	An adaptive algorithm for clustering cumulative probability distribution functions using the Kolmogorov-Smirnov two-sample test. <i>Expert Systems With Applications</i> , 2015, 42, 4016-4021.	4.4	25
17	Characterization and simulation of hourly exposure series of global radiation. <i>Solar Energy</i> , 1997, 60, 257-270.	2.9	23
18	Modelling the distribution of solar spectral irradiance using data mining techniques. <i>Environmental Modelling and Software</i> , 2014, 53, 163-172.	1.9	23

#	ARTICLE	IF	CITATIONS
19	Methodology to establish the permitted maximum losses due to shading and orientation in photovoltaic applications in buildings. <i>Applied Energy</i> , 2015, 137, 37-45.	5.1	21
20	Inductive learning models with missing values. <i>Mathematical and Computer Modelling</i> , 2006, 44, 790-806.	2.0	20
21	New approach to estimate 5-min global solar irradiation data on tilted planes from horizontal measurement. <i>Renewable Energy</i> , 2020, 145, 2477-2488.	4.3	20
22	Data mining and statistical techniques for characterizing the performance of thin-film photovoltaic modules. <i>Expert Systems With Applications</i> , 2013, 40, 7141-7150.	4.4	19
23	Influence of time resolution in the estimation of self-consumption and self-sufficiency of photovoltaic facilities. <i>Applied Energy</i> , 2018, 229, 990-997.	5.1	18
24	Photovoltaic module simulation by neural networks using solar spectral distribution. <i>Progress in Photovoltaics: Research and Applications</i> , 2013, 21, 1222-1235.	4.4	17
25	Using probabilistic finite automata to simulate hourly series of global radiation. <i>Solar Energy</i> , 2003, 74, 235-244.	2.9	14
26	Binding data mining and expert knowledge for one-day-ahead prediction of hourly global solar radiation. <i>Expert Systems With Applications</i> , 2021, 167, 114147.	4.4	13
27	Energy performance assessment of monocrystalline and polycrystalline photovoltaic modules in the tropical mountain climate: The case for Manizales-Colombia. <i>Energy Reports</i> , 2020, 6, 2828-2835.	2.5	12
28	Fuzzy inference systems applied to the daily ultraviolet radiation evaluation (295â€“385 nm) from daily global radiation. <i>Solar Energy</i> , 2003, 75, 447-454.	2.9	10
29	Modeling time series of climatic parameters with probabilistic finite automata. <i>Environmental Modelling and Software</i> , 2005, 20, 753-760.	1.9	10
30	Analysis and characterization of photovoltaic modules of three different thin-film technologies in outdoor conditions. <i>Applied Energy</i> , 2016, 162, 827-838.	5.1	10
31	Economic analysis of small photovoltaic facilities and their regional differences. <i>International Journal of Energy Research</i> , 2004, 28, 245-255.	2.2	8
32	A novel methodology for the pre-classification of faÃ§ades usable for the decision of installation of integrated PV in buildings: The case for equatorial countries. <i>Energy</i> , 2017, 141, 2264-2276.	4.5	7
33	Analysis of a photovoltaic self-consumption facility with different net metering schemes. <i>International Journal of Smart Grid and Clean Energy</i> , 2017, 6, 47-53.	0.4	7
34	Data driven tools to assess the location of photovoltaic facilities in urban areas. <i>Expert Systems With Applications</i> , 2022, 203, 117349.	4.4	7
35	A data mining system for predicting solar global spectral irradiance. Performance assessment in the spectral response ranges of thin-film photovoltaic modules. <i>Renewable Energy</i> , 2019, 133, 828-839.	4.3	5
36	Comparing distributions with bootstrap techniques: An application to global solar radiation. <i>Mathematics and Computers in Simulation</i> , 2010, 81, 811-819.	2.4	4

#	ARTICLE	IF	CITATIONS
37	New software tool to characterize photovoltaic modules from commercial equipment. WEENTECH Proceedings in Energy, 2018, 4, 211-220.	0.0	3
38	Framework for Monitoring and Assessing Small and Medium Solar Energy Plants. Journal of Solar Energy Engineering, Transactions of the ASME, 2015, 137, .	1.1	2
39	Structural, morphological, electrical and optical properties of amorphous In <sub>x</sub> Al <sub>1-x</sub> N thin films for photovoltaic applications. Journal of Non-Crystalline Solids, 2018, 499, 328-336.	1.5	2
40	A multivariate qualitative model for the prediction of daily global radiation from three hourly global radiation values. Energy, 2001, 26, 205-215.	4.5	1
41	Modeling Daily Profiles of Solar Global Radiation Using Statistical and Data Mining Techniques. Lecture Notes in Computer Science, 2014, , 155-166.	1.0	1
42	Binding Machine Learning Models and OPC Technology for Evaluating Solar Energy Systems. Lecture Notes in Computer Science, 2010, , 606-615.	1.0	1
43	Models for the Optimization and Evaluation of Photovoltaic Self-Consumption Facilities. , 2019, , .		1
44	Smart Solar Micro-exchangers for Sustainable Mobility of University Camps. IOP Conference Series: Materials Science and Engineering, 2020, 960, 042011.	0.3	0
45	An Intelligent Memory Model for Short-Term Prediction: An Application to Global Solar Radiation Data. Lecture Notes in Computer Science, 2010, , 596-605.	1.0	0
46	Analysis of self-sufficiency and self-consumption for PV installations for different locations. WEENTECH Proceedings in Energy, 2018, 4, 203-210.	0.0	0
47	Reliability of Explicit Methods to Identify the Parameters of PV Panels with Degraded Series Resistance: An Experimental Comparison. Lecture Notes in Electrical Engineering, 2020, , 145-158.	0.3	0
48	Real-Time Procedure to Detect Losses in Photovoltaic Generators Using the Instantaneous and the Translated Performance Ratio. Lecture Notes in Electrical Engineering, 2020, , 463-472.	0.3	0