Francisco JosÃ© MuÃ±oz Rodriguez

List of Publications by Year
in descending order

39 papers	665 citations	623734 14 h-index	580821 25 g-index
40 all docs	40 docs citations	40 times ranked	604 citing authors

#	Article	IF	Citations
1	Characterisation of PV CIS module by artificial neural networks. A comparative study with other methods. Renewable Energy, 2010, 35, 973-980.	8.9	89
2	Design criteria for the optimal sizing of a hybrid energy storage system in PV household-prosumers to maximize self-consumption and self-sufficiency. Energy, 2019, 186, 115827.	8.8	84
3	A new approach to sizing the photovoltaic generator in self-consumption systems based on costâ€“competitiveness, maximizing direct self-consumption. Renewable Energy, 2019, 130, 1021-1035.	8.9	74
4	Optimal sizing and management strategy for PV household-prosumers with self-consumption/sufficiency enhancement and provision of frequency containment reserve. Applied Energy, 2020, 277, 115529.	10.1	53
5	A new approach based on economic profitability to sizing the photovoltaic generator in self-consumption systems without storage. Renewable Energy, 2020, 148, 1017-1033.	8.9	40
6	Online Monitoring System for Stand-Alone Photovoltaic Applicationsâ€”Analysis of System Performance From Monitored Data. Journal of Solar Energy Engineering, Transactions of the ASME, 2012, 134, .	1.8	29
7	Tools for the profitability analysis of grid-connected photovoltaics. Progress in Photovoltaics: Research and Applications, 2002, 10, 555-570.	8.1	28
8	A new method based on charge parameters to analyse the performance of stand-alone photovoltaic systems. Solar Energy Materials and Solar Cells, 2006, 90, 1750-1763.	6.2	28
9	Low-Cost Datalogger Intended for Remote Monitoring of Solar Photovoltaic Standalone Systems Based on Arduinoâ„¢. IEEE Sensors Journal, 2019, 19, 4308-4320.	4.7	27
10	Effects of smart meter time resolution when analyzing photovoltaic self-consumption system on a daily and annual basis. Renewable Energy, 2021, 164, 889-896.	8.9	23
11	Assessment of induced voltages in common and differentialâ€mode for a PV module due to nearby lightning strikes. IET Renewable Power Generation, 2019, 13, 1369-1378.	3.1	22
12	A new tool to analysing photovoltaic self-consumption systems with batteries. Renewable Energy, 2021, 168, 1327-1343.	8.9	18
13	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
14	Monitoring PWM signals in stand-alone photovoltaic systems. Measurement: Journal of the International Measurement Confederation, 2019, 134, 412-425.	5.0	15
15	Impacts of Array Orientation and Tilt Angles for Photovoltaic Self-Sufficiency and Self-Consumption Indices in Olive Mills in Spain. Electronics (Switzerland), 2020, 9, 348.	3.1	15
16	Improvements in Performance Analysis of Photovoltaic Systems: Array Power Monitoring in Pulse Width Modulation Charge Controllers. Sensors, 2019, 19, 2150.	3.8	12
17	Development of a Prototype for Monitoring Photovoltaic Self-Consumption Systems. Electronics (Switzerland), 2020, 9, 67.	3.1	10
18	Blended learning for photovoltaic systems: Virtual laboratory with PSPICE. , 2016, , .		9

#	Article	IF	Citations
19	Integration of PV systems on health emergency vehicles. The FIVE project. Progress in Photovoltaics: Research and Applications, 2004, 12, 609-621.	8.1	8
20	Photovoltaic Self-Consumption in Industrial Cooling and Refrigeration. Electronics (Switzerland), 2020, 9, 2204.	3.1	8
21	Monitoring Array Output Current and Voltage in Stand Alone Photovoltaics Systems With Pulse Width Modulated Charge Regulators. Journal of Solar Energy Engineering, Transactions of the ASME, 2013, 135, .	1.8	7
22	Development of a Utility Model for the Measurement of Global Radiation in Photovoltaic Applications in the Internet of Things (IoT). Electronics (Switzerland), 2019, 8, 304.	3.1	7
23	Power Gain and Daily Improvement Factor in Stand-Alone Photovoltaic Systems With Maximum Power Point Tracking Charge Regulators. Case of Study: South of Spain. Journal of Solar Energy Engineering, Transactions of the ASME, 2013, 135, .	1.8	6
24	Virtual laboratory for the training and learning of the subject solar resource: OrientSol 2.0. , 2014, , .		5
25	Web app for a remote electronics instrumentation lab. , 2014, , .		5
26	Efficiencies and Energy Balance in High-Concentrator Photovoltaic Devices. Green Energy and Technology, 2015, , 239-260.	0.6	5
27	Smart meters for the evaluation of self-consumption in zero energy buildings. , 2019, , .		5
28	Tool for the design and energy harvesting of grid-connected photovoltaic power installations: PV Excel Jaen 3.0. , 2014, , .		3
29	B-learning of photovoltaics systems using oread PSPICE: "Work in progress". , 2014, , .		2
30	High-Concentrator Photovoltaic Power Plants: Energy Balance and Case Studies. Green Energy and Technology, 2015, , 443-477.	0.6	2
31	A New Approach to Estimate from Monitored Demand Data the Limit of the Coverage of Electricity Demand through Photovoltaics in Large Electricity Grids. Sensors, 2020, 20, 4390.	3.8	2
32	Content Curation in E-Learning: A Case of Study with Spanish Engineering Students. Applied Sciences (Switzerland), 2022, 12, 3188.	2.5	2
33	Educational applications that promote Personal Learning Environment (PLE). , 2016, , .		1
34	Experience in developing personal learning environments for the subject systems of data acquisition. , 2018, , .		1
35	FOLLOW ME ON TWITTER! TWITTER AS A RESOURCE TO EVALUATE THE MEETINGS WITH ENTREPRENEURS. EDULEARN Proceedings, 2018, , .	0.0	1
36	DISTRIBUTED GENERATION AND PHOTOVOLTAIC SELF-CONSUMPTION. ENERGY POTENTIAL FOR THE OLIVE MILL INDUSTRIES IN SPAIN. Dyna (Spain), 2020, 95, 591-595.	0.2	1

#	Article	IF	Citations
37	Photovoltaic Rooftops in Smart Energy Systems. , 2022, , 1-28.		1
38	Educational tools in order to promote the self-learning. Practical case of study: Dimex SFCR. , 2014, , .		0
39	Measurement with Arduino in the subject Electronic Instrumentation. , 2018, , .		0