

Carlos Alvarez-Bel

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

1,121
citations

19
h-index

32
g-index

74
ext. papers

1,371
ext. citations

5.1
avg. IF

4.62
L-index

#	Paper	IF	Citations
57	Innovative Methodology to Identify Errors in Electric Energy Measurement Systems in Power Utilities. <i>Energies</i> , 2021 , 14, 958	3.1	
56	Methodology for the evaluation of demand response strategies for the management of natural gas systems. <i>Energy</i> , 2021 , 234, 121283	7.9	3
55	Assessment of Technical and Economic Impacts of EV User Behavior on EV Aggregator Smart Charging. <i>Journal of Modern Power Systems and Clean Energy</i> , 2020 , 8, 356-366	4	19
54	Maximizing the Profit for Industrial Customers of Providing Operation Services in Electric Power Systems via a Parallel Particle Swarm Optimization Algorithm. <i>IEEE Access</i> , 2020 , 8, 24721-24733	3.5	6
53	Effects of the Selected Point of Voltage Reference on the Apparent Power Measurement in Three-Phase Star Systems. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1036	2.6	
52	Impact of Electric Vehicle Charging Strategy on the Long-Term Planning of an Isolated Microgrid. <i>Energies</i> , 2020 , 13, 3455	3.1	11
51	Assessing the ancillary service potential of electric vehicles to support renewable energy integration in touristic islands: A case study from Balearic island of Menorca. <i>Renewable Energy</i> , 2020 , 161, 495-509	8.1	12
50	Novel Conceptual Architecture for the Next-Generation Electricity Markets to Enhance a Large Penetration of Renewable Energy. <i>Energies</i> , 2019 , 12, 2605	3.1	11
49	Power Generation Planning of Galapagos Microgrid Considering Electric Vehicles and Induction Stoves. <i>IEEE Transactions on Sustainable Energy</i> , 2019 , 10, 1916-1926	8.2	22
48	Integration of Methodologies for the Evaluation of Offer Curves in Energy and Capacity Markets through Energy Efficiency and Demand Response. <i>Sustainability</i> , 2018 , 10, 483	3.6	6
47	A Remote Control of Electric Vehicle Aggregator for Managing the Charging Power 2018 ,		2
46	Electric Vehicle Charging Strategy for Isolated Systems with High Penetration of Renewable Generation. <i>Energies</i> , 2018 , 11, 3188	3.1	20
45	Integration of Demand Response and Photovoltaic Resources in Residential Segments. <i>Sustainability</i> , 2018 , 10, 3030	3.6	7
44	Smart Charging for Electric Vehicle Aggregators Considering Users Preferences. <i>IEEE Access</i> , 2018 , 6, 54624-54635	3.5	50
43	Design and validation of a methodology for standardizing prequalification of industrial demand response resources. <i>Electric Power Systems Research</i> , 2018 , 164, 220-229	3.5	8
42	Assessment of the impact of intelligent DSM methods in the Galapagos Islands toward a Smart Grid. <i>Electric Power Systems Research</i> , 2017 , 146, 308-320	3.5	15
41	An optimisation algorithm for distributed energy resources management in micro-scale energy hubs. <i>Energy</i> , 2017 , 132, 126-135	7.9	35

40	Methodologies and proposals to facilitate the integration of small and medium consumers in smart grids. <i>CIREC - Open Access Proceedings Journal</i> , 2017 , 2017, 1895-1898	0.1	2
39	Residential end-uses disaggregation and demand response evaluation using integral transforms. <i>Journal of Modern Power Systems and Clean Energy</i> , 2017 , 5, 91-104	4	14
38	Smart charging for an electric vehicle aggregator considering user tariff preference 2017 ,		6
37	A tariff system for electric vehicle smart charging to increase renewable energy sources use 2017 ,		2
36	Simplification and evaluation of demand response by the use of statistical aggregated models. <i>CIREC - Open Access Proceedings Journal</i> , 2017 , 2017, 2901-2905	0.1	1
35	A novel tool for the evaluation and assessment of demand response activities in the industrial sector. <i>Energy</i> , 2016 , 113, 1136-1146	7.9	24
34	2016 ,		3
33	Integration of renewable energy in microgrids coordinated with demand response resources: Economic evaluation of a biomass gasification plant by Homer Simulator. <i>Applied Energy</i> , 2014 , 132, 15-22	10.7	96
32	Electrical consumption forecast using actual data of building end-use decomposition. <i>Energy and Buildings</i> , 2014 , 82, 73-81	7	7
31	Renewable generation and demand response integration in micro-grids: development of a new energy management and control system. <i>Energy Efficiency</i> , 2013 , 6, 695-706	3	3
30	Upgrade of an artificial neural network prediction method for electrical consumption forecasting using an hourly temperature curve model. <i>Energy and Buildings</i> , 2013 , 60, 38-46	7	49
29	Economic and environmental evaluation of customers' flexibility participating in operation markets: Application to the meat industry. <i>Energy</i> , 2012 , 41, 368-379	7.9	10
28	Evaluation and assessment of demand response potential applied to the meat industry. <i>Applied Energy</i> , 2012 , 92, 84-91	10.7	35
27	New artificial neural network prediction method for electrical consumption forecasting based on building end-uses. <i>Energy and Buildings</i> , 2011 , 43, 3112-3119	7	75
26	New indices to assess building energy efficiency at the use stage. <i>Energy and Buildings</i> , 2011 , 43, 476-484		33
25	Simulation of demand side participation in Spanish short term electricity markets. <i>Energy Conversion and Management</i> , 2011 , 52, 2705-2711	10.6	9
24	2011 ,		2
23	Active Demand Response Strategies to Improve Energy Efficiency in the Meat Industry 2011 ,		2

22	Development of a methodology for clustering electricity-price series to improve customer response initiatives. <i>IET Generation, Transmission and Distribution</i> , 2010 , 4, 706	2.5	20
21	Hybrid biomass-wind power plant for reliable energy generation. <i>Renewable Energy</i> , 2010 , 35, 1436-1443	3.1	40
20	Method for modelling space conditioning aggregated daily load curves: Application to a university building. <i>Energy and Buildings</i> , 2010 , 42, 1275-1282	7	18
19	Technical and economical tools to assess customer demand response in the commercial sector. <i>Energy Conversion and Management</i> , 2009 , 50, 2605-2612	10.6	40
18	Evaluation of control strategies in HVAC split systems 2009 ,		1
17	Characterization methodology for in-home loads based on harmonics 2009 ,		1
16	Validation of a methodology to assess customer demand response: Application to the commercial sector 2009 ,		2
15	Development of a methodology for improving the effectiveness of customer response policies through electricity-price patterns 2008 ,		3
14	Methodology for ranking customer segments by their suitability for distributed energy resources applications. <i>Energy Conversion and Management</i> , 2007 , 48, 1615-1623	10.6	12
13	Energy market segmentation for distributed energy resources implementation purposes. <i>IET Generation, Transmission and Distribution</i> , 2007 , 1, 324	2.5	10
12	Methods for customer and demand response policies selection in new electricity markets. <i>IET Generation, Transmission and Distribution</i> , 2007 , 1, 104	2.5	92
11	An integrated tool for assessing the demand profile flexibility. <i>IEEE Transactions on Power Systems</i> , 2004 , 19, 668-675	7	22
10	Assessment and simulation of the responsive demand potential in end-user facilities: application to a university customer. <i>IEEE Transactions on Power Systems</i> , 2004 , 19, 1223-1231	7	49
9	Implementation and assessment of physically based electrical load models: application to direct load control residential programmes. <i>IET Generation, Transmission and Distribution</i> , 2003 , 150, 61		72
8	Hybrid demand model for load estimation and short term load forecasting in distribution electric systems. <i>IEEE Transactions on Power Delivery</i> , 2000 , 15, 764-769	4.3	53
7	Load research for fault location in distribution feeders. <i>IET Generation, Transmission and Distribution</i> , 1999 , 146, 115		9
6	Stochastic load modelling for electric energy distribution applications. <i>Top</i> , 1994 , 2, 151-166	1.3	3
5	OPTIMIZING THE ELECTRICAL ENERGY DISTRIBUTION SYSTEMS DESIGN BY MULTIOBJECTIVE MODELS. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 1994 , 13, 483-495	0.7	2

4	. <i>IEEE Transactions on Power Systems</i> , 1992 , 7, 1435-1443	7	51
3	On-Line Observability Determination as a Further Result of State Estimation Algorithms. <i>IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee</i> , 1982 , PAS-101, 767-774		5
2	An investigation toward new technologies and issues in power quality		8
1	Solid state devices for protection in distribution systems. A new proposal for solid state transfer switch (SSTS)		3