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List of Publications by Year in descending order

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53
papers

1,085
citations

361413

20
h-index

414414

32
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all docs

53
docs citations

53
times ranked

1048
citing authors

#	ARTICLE	IF	CITATIONS
1	New artificial neural network prediction method for electrical consumption forecasting based on building end-uses. <i>Energy and Buildings</i> , 2011, 43, 3112-3119.	6.7	105
2	Application of an energy management and control system to assess the potential of different control strategies in HVAC systems. <i>Energy and Buildings</i> , 2010, 42, 2258-2267.	6.7	102
3	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.	6.7	64
4	Experimental verification of hybrid renewable systems as feasible energy sources. <i>Renewable Energy</i> , 2016, 86, 384-391.	8.9	54
5	Basic actions to improve energy efficiency in commercial buildings in operation. <i>Energy and Buildings</i> , 2011, 43, 3106-3111.	6.7	53
6	Evaluation and assessment of demand response potential applied to the meat industry. <i>Applied Energy</i> , 2012, 92, 84-91.	10.1	48
7	Review of Energy Efficiency Technologies in the Food Industry: Trends, Barriers, and Opportunities. <i>IEEE Access</i> , 2020, 8, 48015-48029.	4.2	45
8	An optimisation algorithm for distributed energy resources management in micro-scale energy hubs. <i>Energy</i> , 2017, 132, 126-135.	8.8	44
9	Technical and economical tools to assess customer demand response in the commercial sector. <i>Energy Conversion and Management</i> , 2009, 50, 2605-2612.	9.2	43
10	Electric Vehicles for Public Transportation in Power Systems: A Review of Methodologies. <i>Energies</i> , 2019, 12, 3114.	3.1	40
11	New indices to assess building energy efficiency at the use stage. <i>Energy and Buildings</i> , 2011, 43, 476-484.	6.7	37
12	Accurate Sizing of Residential Stand-Alone Photovoltaic Systems Considering System Reliability. <i>Sustainability</i> , 2020, 12, 1274.	3.2	36
13	Improving the benefits of demand response participation in facilities with distributed energy resources. <i>Energy</i> , 2019, 169, 710-718.	8.8	34
14	Wind farm electrical power production model for load flow analysis. <i>Renewable Energy</i> , 2011, 36, 1008-1013.	8.9	30
15	A new interval prediction methodology for short-term electric load forecasting based on pattern recognition. <i>Applied Energy</i> , 2021, 297, 117173.	10.1	28
16	Methodology for validating technical tools to assess customer Demand Response: Application to a commercial customer. <i>Energy Conversion and Management</i> , 2011, 52, 1507-1511.	9.2	22
17	Statistical methodology to assess changes in the electrical consumption profile of buildings. <i>Energy and Buildings</i> , 2018, 164, 99-108.	6.7	22
18	Impact of Electric Vehicle Charging Strategy on the Long-Term Planning of an Isolated Microgrid. <i>Energies</i> , 2020, 13, 3455.	3.1	22

#	ARTICLE	IF	CITATIONS
19	Method for modelling space conditioning aggregated daily load curves: Application to a university building. <i>Energy and Buildings</i> , 2010, 42, 1275-1282.	6.7	21
20	Review on Multi-Objective Control Strategies for Distributed Generation on Inverter-Based Microgrids. <i>Energies</i> , 2020, 13, 3483.	3.1	20
21	Continuous assessment of energy efficiency in commercial buildings using energy rating factors. <i>Energy and Buildings</i> , 2012, 49, 78-84.	6.7	19
22	Improved variable step size P&O MPPT algorithm for PV systems. , 2016, , .		15
23	Optimal siting and sizing of electric taxi charging stations considering transportation and power system requirements. <i>Energy</i> , 2022, 256, 124572.	8.8	15
24	Economic and environmental evaluation of customers' flexibility participating in operation markets: Application to the meat industry. <i>Energy</i> , 2012, 41, 368-379.	8.8	14
25	Simulation Model for Energy Integration of Distributed Resources in Buildings. <i>IEEE Latin America Transactions</i> , 2015, 13, 166-171.	1.6	12
26	Nuisance tripping of residual current circuit breakers: A practical case. <i>Electric Power Systems Research</i> , 2014, 106, 180-187.	3.6	11
27	A charging station planning model considering electric bus aggregators. <i>Sustainable Energy, Grids and Networks</i> , 2022, 30, 100638.	3.9	11
28	Simulation of demand side participation in Spanish short term electricity markets. <i>Energy Conversion and Management</i> , 2011, 52, 2705-2711.	9.2	10
29	Electrical consumption forecast using actual data of building end-use decomposition. <i>Energy and Buildings</i> , 2014, 82, 73-81.	6.7	10
30	Design and validation of a methodology for standardizing prequalification of industrial demand response resources. <i>Electric Power Systems Research</i> , 2018, 164, 220-229.	3.6	10
31	A Time-Series Treatment Method to Obtain Electrical Consumption Patterns for Anomalies Detection Improvement in Electrical Consumption Profiles. <i>Energies</i> , 2020, 13, 1046.	3.1	10
32	Techno-economic Assessment of Renewable Energy-based Microgrids in the Amazon Remote Communities in Ecuador. <i>Energy Technology</i> , 2022, 10, 2100746.	3.8	9
33	Election of variables and short-term forecasting of electricity demand based on backpropagation artificial neural networks. , 2017, , .		8
34	Nuisance tripping of residual current circuit breakers in circuits supplying electronic loads. <i>Electric Power Systems Research</i> , 2016, 131, 139-146.	3.6	7
35	Non-Linear Control of a DC Microgrid for Electric Vehicle Charging Stations. <i>International Journal on Advanced Science, Engineering and Information Technology</i> , 2020, 10, 593-598.	0.4	7
36	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.	2.8	6

#	ARTICLE	IF	CITATIONS
37	Urban Traffic Flow Mapping of an Andean Capital: Quito, Ecuador. IEEE Access, 2020, 8, 195459-195471.	4.2	5
38	Energy Efficiency Measures in Bakeries toward Competitiveness and Sustainability—Case Studies in Quito, Ecuador. Sustainability, 2021, 13, 5209.	3.2	5
39	The impact of charging electric buses on the power grid. , 2020, , .		5
40	Quantitative assessment of hybrid systems of heating domestic water based on solar energy in andean zones of Ecuador. , 2016, , .		4
41	Electric Vehicle Charging Load Prediction for Private Cars and Taxis Based on Vehicle Usage Data. , 2019, , .		4
42	Forecasting Building Electric Consumption Patterns Through Statistical Methods. Advances in Intelligent Systems and Computing, 2020, , 164-175.	0.6	4
43	Improving the Sustainability of Self-Consumption with Cooperative DC Microgrids. Sustainability, 2019, 11, 5472.	3.2	3
44	Smart Cooperative Energy Supply Strategy to Increase Reliability in Residential Stand-Alone Photovoltaic Systems. Applied Sciences (Switzerland), 2021, 11, 11723.	2.5	3
45	Optimal Energy Management of an Academic Building with Distributed Generation and Energy Storage Systems. IOP Conference Series: Earth and Environmental Science, 2017, 78, 012018.	0.3	2
46	Active Demand Response Strategies to Improve Energy Efficiency in the Meat Industry. , 2011, , .		2
47	Novel energy management and control system for introducing demand response actions and energy efficiency in micro-grid operation. , 2011, , .		1
48	Occasional Energy Reviews from an External Expert Help to Reduce Building Energy Consumption at a Reduced Cost. Energies, 2019, 12, 2929.	3.1	1
49	Coordinated Siting and Sizing of Electric Taxi Charging Stations Considering Traffic and Power Systems Conditions. , 2021, , .		1
50	Energy Savings for Car Stores by Using Energy Efficiency Improvements. Processes, 2022, 10, 1108.	2.8	1
51	Maintain maintenance: a look at some threats in the sector. International Journal of Services, Technology and Management, 2014, 20, 233.	0.1	0
52	A digital control system for Lighting Energy Consumption Efficiency (LECE). , 2017, , .		0
53	Design Considerations of a Monitoring System of a Farm for Energy Efficiency Purposes. , 2019, , .		0