

Roberto Villafafila-Robles

List of Publications by Year in descending order

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42
papers

2,367
citations

567144

15
h-index

477173

29
g-index

43
all docs

43
docs citations

43
times ranked

3121
citing authors

#	ARTICLE	IF	CITATIONS
1	Composed Index for the Evaluation of Energy Security in Power Systems within the Frame of Energy Transitionsâ€”The Case of Latin America and the Caribbean. <i>Energies</i> , 2021, 14, 2467.	1.6	8
2	Conversion of a Network Section with Loads, Storage Systems and Renewable Generation Sources into a Smart Microgrid. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5012.	1.3	7
3	A Novel Hybrid Home Energy Management System Considering Electricity Cost and Greenhouse Gas Emissions Minimization. <i>IEEE Transactions on Industry Applications</i> , 2021, 57, 2782-2790.	3.3	15
4	Artificial intelligence techniques for enabling Big Data services in distribution networks: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111459.	8.2	62
5	Composed Index for the Evaluation of the Energy Security of Power Systems: Application to the Case of Argentina. <i>Energies</i> , 2020, 13, 3998.	1.6	10
6	A Novel Home Energy Management System Environmental-based with LCA Minimization. , 2020, , .		0
7	Transition to a greener Power Sector: Four different scopes on energy security. <i>Renewable Energy Focus</i> , 2020, 33, 23-36.	2.2	14
8	Centralised and Distributed Optimization for Aggregated Flexibility Services Provision. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 3257-3269.	6.2	42
9	Evaluation of the Effects of Smart Charging Strategies and Frequency Restoration Reserves Market Participation of an Electric Vehicle. <i>Energies</i> , 2020, 13, 3112.	1.6	11
10	Novel fault location algorithm for meshed distribution networks with DERs. <i>Electric Power Systems Research</i> , 2020, 181, 106182.	2.1	20
11	Impedance Measurement and Detection Frequency Bandwidth, a Valid Island Detection Proposal for Voltage Controlled Inverters. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1146.	1.3	8
12	The Potential Role of Flexibility During Peak Hours on Greenhouse Gas Emissions: A Life Cycle Assessment of Five Targeted National Electricity Grid Mixes. <i>Energies</i> , 2019, 12, 4443.	1.6	13
13	Optimization problem for meeting distribution system operator requests in local flexibility markets with distributed energy resources. <i>Applied Energy</i> , 2018, 210, 881-895.	5.1	156
14	Local Flexibility Market Design for Aggregators Providing Multiple Flexibility Services at Distribution Network Level. <i>Energies</i> , 2018, 11, 822.	1.6	171
15	Experimental validation of a single phase Intelligent Power Router. <i>Sustainable Energy, Grids and Networks</i> , 2015, 4, 1-15.	2.3	19
16	Probabilistic Agent-Based Model of Electric Vehicle Charging Demand to Analyse the Impact on Distribution Networks. <i>Energies</i> , 2015, 8, 4160-4187.	1.6	69
17	Optimization of Surge Arrester Locations in Overhead Distribution Networks. <i>IEEE Transactions on Power Delivery</i> , 2015, 30, 674-683.	2.9	15
18	Impact Evaluation of Plug-in Electric Vehicles on Power System. <i>Power Systems</i> , 2015, , 149-178.	0.3	2

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19	Active power estimation of photovoltaic generators for distribution network planning based on correlation models. <i>Energy</i> , 2014, 64, 758-770.	4.5	10
20	Distribution system reconfiguration using genetic algorithm based on connected graphs. <i>Electric Power Systems Research</i> , 2013, 104, 216-225.	2.1	44
21	Modeling of Second Generation HTS Cables for Grid Fault Analysis Applied to Power System Simulation. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 5401204-5401204.	1.1	6
22	Pareto Optimal Reconfiguration of Power Distribution Systems Using a Genetic Algorithm Based on NSGA-II. <i>Energies</i> , 2013, 6, 1439-1455.	1.6	91
23	Development of a laboratory platform for testing new solutions to integrate renewable energy sources in power systems. , 2013, , .		2
24	Assessment of impact of charging infrastructure for electric vehicles on distribution networks. , 2013, , .		3
25	Modeling, Control and Experimental Validation of a Flywheel-Based Energy Storage Device. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2013, 23, 41-51.	0.7	3
26	Probabilistic Method to Assess the Impact of Charging of Electric Vehicles on Distribution Grids. <i>Energies</i> , 2012, 5, 1503-1531.	1.6	28
27	Dynamic Model of an HTS Cable for Power Grid Simulation. <i>Physics Procedia</i> , 2012, 36, 1272-1278.	1.2	4
28	Modeling and validation of a flywheel energy storage lab-setup. , 2012, , .		15
29	A review of energy storage technologies for wind power applications. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 2154-2171.	8.2	1,252
30	Electric vehicles in power systems with distributed generation: Vehicle to Microgrid (V2M) project. , 2011, , .		10
31	Life-cycle assessment of a photovoltaic system in Catalonia (Spain). <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 3888-3896.	8.2	102
32	Promotion of renewable energy in Latin America for the security of electric supply. , 2011, , .		0
33	Protection system remote laboratory. , 2011, , .		3
34	Probabilistic analysis in normal operation of distribution system with distributed generation. , 2011, , .		1
35	Methodology for the assessment of the impact of existing high voltage lines in urban areas. <i>Energy Policy</i> , 2010, 38, 6036-6044.	4.2	21
36	Short-term voltage stability of fixed-speed wind turbines: Comparison of single and double cage. , 2010, , .		5

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37	A Remote Laboratory Platform for Electrical Drive Control Using Programmable Logic Controllers. IEEE Transactions on Education, 2009, 52, 425-435.	2.0	28
38	Electrical vehicles: State of art and issues for their connection to the network. , 2009, , .		23
39	Response of Fixed Speed Wind Turbines to System Frequency Disturbances. IEEE Transactions on Power Systems, 2009, 24, 181-192.	4.6	65
40	Modeling the stochastic dependencies in a probabilistic load flow including wind generation. , 2009, , .		4
41	Power quality education using a remote monitoring laboratory. , 2007, , .		5
42	Reliability of Electricity Supply: Appliances and Equipment. , 0, , 403-444.		0