

João P S Catalão, Ieee Fellow

List of Publications by Year in descending order

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188
papers

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190
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190
docs citations

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times ranked

5664
citing authors

#	ARTICLE	IF	CITATIONS
1	Closed-Loop Aggregated Baseline Load Estimation Using Contextual Bandit With Policy Gradient. IEEE Transactions on Smart Grid, 2022, 13, 243-254.	6.2	8
2	Synergies Between Transportation Systems, Energy Hub and the Grid in Smart Cities. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7371-7385.	4.7	12
3	Enhancing Transient Stability of Distribution Networks With Massive Proliferation of Converter-Interfaced Distributed Generators. IEEE Systems Journal, 2022, 16, 1313-1324.	2.9	0
4	Bi-Level Decomposition Approach for Coordinated Planning of an Energy Hub With Gas-Electricity Integrated Systems. IEEE Systems Journal, 2022, 16, 1529-1539.	2.9	10
5	Blockchain-Based Transactive Energy Framework for Connected Virtual Power Plants. IEEE Transactions on Industry Applications, 2022, 58, 986-995.	3.3	39
6	Storage and Transmission Capacity Requirements of a Remote Solar Power Generation System. IEEE Systems Journal, 2022, 16, 3175-3178.	2.9	1
7	Flexibility Requirement When Tracking Renewable Power Fluctuation With Peer-to-Peer Energy Sharing. IEEE Transactions on Smart Grid, 2022, 13, 1113-1125.	6.2	10
8	New Hybrid Deep Neural Architectural Search-Based Ensemble Reinforcement Learning Strategy for Wind Power Forecasting. IEEE Transactions on Industry Applications, 2022, 58, 15-27.	3.3	29
9	Operation of a Technical Virtual Power Plant Considering Diverse Distributed Energy Resources. IEEE Transactions on Industry Applications, 2022, 58, 2547-2558.	3.3	35
10	Dynamic Distribution System Reconfiguration Considering Distributed Renewable Energy Sources and Energy Storage Systems. IEEE Systems Journal, 2022, 16, 3723-3733.	2.9	13
11	Demand Response Program Integrated With Electrical Energy Storage Systems for Residential Consumers. IEEE Systems Journal, 2022, 16, 4313-4324.	2.9	10
12	Guest Editorial: Special Section on Demand Response Applications of Cloud Computing Technologies. IEEE Transactions on Cloud Computing, 2022, 10, 1-3.	3.1	0
13	Integrated Rail System and EV Parking Lot Operation With Regenerative Braking Energy, Energy Storage System and PV Availability. IEEE Transactions on Smart Grid, 2022, 13, 3049-3058.	6.2	15
14	Resiliency-Driven Multi-Step Critical Load Restoration Strategy Integrating On-Call Electric Vehicle Fleet Management Services. IEEE Transactions on Smart Grid, 2022, 13, 3118-3132.	6.2	12
15	Multiobjective Optimal Power Flow Using a Semidefinite Programming-Based Model. IEEE Systems Journal, 2021, 15, 158-169.	2.9	12
16	Extended Kalman Filter-Based Approach for Nodal Pricing in Active Distribution Networks. IEEE Systems Journal, 2021, 15, 487-496.	2.9	10
17	Network-Constrained Joint Energy and Flexible Ramping Reserve Market Clearing of Power- and Heat-Based Energy Systems: A Two-Stage Hybrid IGDT-“Stochastic Framework. IEEE Systems Journal, 2021, 15, 1547-1556.	2.9	35
18	Risk-Averse Optimal Energy and Reserve Scheduling for Virtual Power Plants Incorporating Demand Response Programs. IEEE Transactions on Smart Grid, 2021, 12, 1405-1415.	6.2	82

#	ARTICLE	IF	CITATIONS
19	Optimal placement of battery swap stations in microgrids with micro pumped hydro storage systems, photovoltaic, wind and geothermal distributed generators. International Journal of Electrical Power and Energy Systems, 2021, 125, 106483.	3.3	48
20	Joint Energy and Reserve Scheduling of a Wind Power Producer in a Peer-to-Peer Mechanism. IEEE Systems Journal, 2021, 15, 4315-4324.	2.9	6
21	Coordinated flexible energy and self-healing management according to the multi-agent system-based restoration scheme in active distribution network. IET Renewable Power Generation, 2021, 15, 1765-1777.	1.7	26
22	Robust Scenario-Based Approach for the Optimal Scheduling of Energy Hubs. , 2021, , .		0
23	Optimal Singular Value Decomposition Based Big Data Compression Approach in Smart Grids. IEEE Transactions on Industry Applications, 2021, 57, 3296-3305.	3.3	8
24	Optimal Bidding Strategy of Demand Response Aggregator Based On Customers' Responsiveness Behaviors Modeling Under Different Incentives. IEEE Transactions on Industry Applications, 2021, 57, 3329-3340.	3.3	46
25	Sky Image Prediction Model Based on Convolutional Auto-Encoder for Minutely Solar PV Power Forecasting. IEEE Transactions on Industry Applications, 2021, 57, 3272-3281.	3.3	36
26	Frequency-Domain Decomposition and Deep Learning Based Solar PV Power Ultra-Short-Term Forecasting Model. IEEE Transactions on Industry Applications, 2021, 57, 3282-3295.	3.3	68
27	An Energy Sharing Mechanism Achieving the Same Flexibility as Centralized Dispatch. IEEE Transactions on Smart Grid, 2021, 12, 3379-3389.	6.2	31
28	Exploitation of Microgrid Flexibility in Distribution System Hosting Prosumers. IEEE Transactions on Industry Applications, 2021, 57, 4222-4231.	3.3	15
29	Deep Convolutional Graph Rough Variational Auto-Encoder for Short-Term Photovoltaic Power Forecasting. , 2021, , .		8
30	Exploiting the Potentials of HVAC Systems in Transactive Energy Markets. IEEE Transactions on Smart Grid, 2021, 12, 4039-4048.	6.2	17
31	Novel Hybrid Stochastic-Robust Optimal Trading Strategy for a Demand Response Aggregator in the Wholesale Electricity Market. IEEE Transactions on Industry Applications, 2021, 57, 5488-5498.	3.3	16
32	Monthly Net Electricity Consumption Prediction Under High Penetration of Distributed Photovoltaic System. , 2021, , .		0
33	Energy Hub Design in the Presence of P2G System Considering the Variable Efficiencies of Gas-Fired Converters. , 2021, , .		13
34	A Dijkstra-Inspired Graph Algorithm for Fully Autonomous Tasking in Industrial Applications. IEEE Transactions on Industry Applications, 2021, 57, 5448-5460.	3.3	16
35	A New Ensemble Reinforcement Learning Strategy for Solar Irradiance Forecasting using Deep Optimized Convolutional Neural Network Models. , 2021, , .		10
36	Learning the Optimal Strategy of Power System Operation With Varying Renewable Generations. IEEE Transactions on Sustainable Energy, 2021, 12, 2293-2305.	5.9	9

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37	A Novel Evolutionary-Based Deep Convolutional Neural Network Model for Intelligent Load Forecasting. IEEE Transactions on Industrial Informatics, 2021, 17, 8243-8253.	7.2	105
38	An Advanced Generative Deep Learning Framework for Probabilistic Spatio-temporal Wind Power Forecasting. , 2021, , .		3
39	Financial Viability of the Aggregators Participation in the Regulation Reserve Market. , 2021, , .		0
40	Impact of the Growing Penetration of Renewable Energy Production on the Iberian Long-Term Electricity Market. , 2021, , .		0
41	Stochastic Distribution Network Operation for Transactive Energy Markets. , 2021, , .		2
42	Agent-Based Modeling of Peer-to-Peer Energy Trading in a Smart Grid Environment. , 2021, , .		3
43	Opportunistic Info-Gap Approach for Optimization of Electrical and Heating Loads in Multi-Energy Systems in the Presence of a Demand Response Program. , 2021, , .		1
44	Peer-to-Peer Electricity Market Based on Local Supervision. IEEE Access, 2021, 9, 156647-156662.	2.6	3
45	Iterative Game Approach for Modeling the Behavior of Agents in a Competitive Flexibility Trading. IEEE Access, 2021, 9, 165227-165238.	2.6	4
46	Day-ahead Modified Dispatching Model Considering Power System Flexibility. , 2021, , .		0
47	A New Evaluation Metric Reflecting the Lead-Lag Scenarios in Wind Power Forecasting. , 2021, , .		0
48	Greedy Clustering-based Monthly Electricity Consumption Forecasting Model. , 2021, , .		2
49	Improvement of Renewable Power Forecasting Indicators Based on System Flexibility. , 2021, , .		1
50	Voltage Security Constrained Optimal Power Flow considering Smart Transmission Switching Maneuvers. , 2021, , .		1
51	Capacity Planning of Energy Hub in Multi-Carrier Energy Networks: A Data-Driven Robust Stochastic Programming Approach. IEEE Transactions on Sustainable Energy, 2020, 11, 3-14.	5.9	86
52	Security-Constrained Unit Commitment With Natural Gas Pipeline Transient Constraints. IEEE Transactions on Smart Grid, 2020, 11, 118-128.	6.2	36
53	Self-Scheduling Approach to Coordinating Wind Power Producers With Energy Storage and Demand Response. IEEE Transactions on Sustainable Energy, 2020, 11, 1210-1219.	5.9	41
54	Energy Management Strategy in Dynamic Distribution Network Reconfiguration Considering Renewable Energy Resources and Storage. IEEE Transactions on Sustainable Energy, 2020, 11, 662-673.	5.9	116

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55	Monopolistic and Game-Based Approaches to Transact Energy Flexibility. IEEE Transactions on Power Systems, 2020, 35, 1075-1084.	4.6	20
56	Risk-Oriented Multi-Area Economic Dispatch Solution With High Penetration of Wind Power Generation and Compressed Air Energy Storage System. IEEE Transactions on Sustainable Energy, 2020, 11, 1569-1578.	5.9	18
57	A Risk-Based Decision Framework for the Distribution Company in Mutual Interaction With the Wholesale Day-Ahead Market and Microgrids. IEEE Transactions on Industrial Informatics, 2020, 16, 764-778.	7.2	44
58	Probabilistic Model for Microgrids Optimal Energy Management Considering AC Network Constraints. IEEE Systems Journal, 2020, 14, 2703-2712.	2.9	12
59	Allocation of Fast-Acting Energy Storage Systems in Transmission Grids With High Renewable Generation. IEEE Transactions on Sustainable Energy, 2020, 11, 1728-1738.	5.9	26
60	The future of power systems: Challenges, trends, and upcoming paradigms. Wiley Interdisciplinary Reviews: Energy and Environment, 2020, 9, e368.	1.9	35
61	Impact of Energy Storage on Economic Dispatch of Distribution Systems: A Multi-Parametric Linear Programming Approach and its Implications. IEEE Open Access Journal of Power and Energy, 2020, 7, 243-253.	2.5	17
62	Optimal Battery Storage Arbitrage Considering Degradation Cost in Energy Markets. , 2020, , .		6
63	An Optimal Charging of Plug-In Electric Vehicles in Unbalanced Three-Phase Distribution Network. , 2020, , .		0
64	Demand Response based Trading Framework in the Presence of Fuel Cells Using Information-Gap Decision Theory. , 2020, , .		5
65	Optimal Day-Ahead Self-Scheduling and Operation of Prosumer Microgrids Using Hybrid Machine Learning-Based Weather and Load Forecasting. IEEE Access, 2020, 8, 157284-157305.	2.6	65
66	Analyzing and Quantifying the Intrinsic Distributional Robustness of CVaR Reformulation for Chance-Constrained Stochastic Programs. IEEE Transactions on Power Systems, 2020, 35, 4908-4911.	4.6	8
67	A Comprehensive Overview of Dynamic Line Rating Combined with Other Flexibility Options from an Operational Point of View. Energies, 2020, 13, 6563.	1.6	25
68	Flexibility-Oriented Scheduling of Microgrids Considering the Risk of Uncertainties. , 2020, , .		5
69	Prosumer Flexibility: A Comprehensive State-of-the-Art Review and Scientometric Analysis. Energies, 2020, 13, 2710.	1.6	35
70	Optimal Operation of Energy Hubs Considering Uncertainties and Different Time Resolutions. IEEE Transactions on Industry Applications, 2020, 56, 5543-5552.	3.3	85
71	Optimal Day-Ahead Scheduling and Operation of the Prosumer by Considering Corrective Actions Based on Very Short-Term Load Forecasting. IEEE Access, 2020, 8, 83561-83582.	2.6	30
72	Power Quality Improvement with a Pulse Width Modulation Control Method in Modular Multilevel Converters under Varying Nonlinear Loads. Applied Sciences (Switzerland), 2020, 10, 3292.	1.3	3

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73	Improved EMD-Based Complex Prediction Model for Wind Power Forecasting. IEEE Transactions on Sustainable Energy, 2020, 11, 2790-2802.	5.9	123
74	Day-Ahead Market Participation of an Active Distribution Network Equipped With Small-Scale CAES Systems. IEEE Transactions on Smart Grid, 2020, 11, 2966-2979.	6.2	7
75	A Novel Ensemble Algorithm for Solar Power Forecasting Based on Kernel Density Estimation. Energies, 2020, 13, 216.	1.6	34
76	Continuous-Time Co-Operation of Integrated Electricity and Natural Gas Systems With Responsive Demands Under Wind Power Generation Uncertainty. IEEE Transactions on Smart Grid, 2020, 11, 3156-3170.	6.2	22
77	An Optimal Home Energy Management Paradigm With an Adaptive Neuro-Fuzzy Regulation. IEEE Access, 2020, 8, 19614-19628.	2.6	30
78	Offering Strategy of Thermal-Photovoltaic-Storage Based Generation Company in Day-Ahead Market. , 2020, , 113-133.		5
79	Ultra-Short-Term Solar PV Power Forecasting Method Based on Frequency-Domain Decomposition and Deep Learning. , 2020, , .		5
80	Optimal Planning of Distributed Generation in Distribution Networks using the Differential Evolutionary Algorithm. , 2020, , .		0
81	Convolutional Auto-encoder Based Sky Image Prediction Model for Minutely Solar PV Power Forecasting. , 2020, , .		1
82	Combining Genetic and Gravitational Search Algorithms for the Optimal Management of Battery Energy Storage Systems in Real-Time Pricing Markets. , 2020, , .		0
83	Assessing Increased Flexibility of Energy Storage and Demand Response to Accommodate a High Penetration of Renewable Energy Sources. IEEE Transactions on Sustainable Energy, 2019, 10, 659-669.	5.9	114
84	Demand Response-Based Operation Model in Electricity Markets With High Wind Power Penetration. IEEE Transactions on Sustainable Energy, 2019, 10, 918-930.	5.9	31
85	Optimal Spinning Reserve Allocation in Presence of Electrical Storage and Renewable Energy Sources. , 2019, , .		15
86	Security-Constrained Unit Commitment Problem With Transmission Switching Reliability and Dynamic Thermal Line Rating. IEEE Systems Journal, 2019, 13, 3933-3943.	2.9	37
87	Stochastic Demand Side Management in European Zonal Price Market. , 2019, , .		2
88	A New Approach for Grid-Connected Hybrid Renewable Energy System Sizing Considering Harmonic Contents of Smart Home Appliances. Applied Sciences (Switzerland), 2019, 9, 3941.	1.3	4
89	Demand-Side Management of Smart Distribution Grids Incorporating Renewable Energy Sources. Energies, 2019, 12, 143.	1.6	19
90	Analysis of Switch Automation Based on Active Reconfiguration Considering Reliability, Energy Storage Systems, and Variable Renewables. IEEE Transactions on Industry Applications, 2019, 55, 6355-6367.	3.3	10

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91	A Business Model Incorporating Harmonic Control as a Value-Added Service for Utility-Owned Electricity Retailers. IEEE Transactions on Industry Applications, 2019, 55, 4441-4450.	3.3	43
92	Information Gap Decision Theory-Based Approach for Modeling Operation Problem of a Grid-Connected Micro-Grid With Uncertainties. , 2019, , .		1
93	Development of a Smart Thermostat Controller for Direct Load Control Based Demand Response Applications. , 2019, , .		4
94	Optimal Management of an Energy Storage Unit in a PV-Based Microgrid Integrating Uncertainty and Risk. Applied Sciences (Switzerland), 2019, 9, 169.	1.3	18
95	Multi-Objective Market Clearing Model with an Autonomous Demand Response Scheme. Energies, 2019, 12, 1261.	1.6	1
96	Urban Wind Resource Assessment: A Case Study on Cape Town. Energies, 2019, 12, 1479.	1.6	12
97	Pattern Classification and PSO Optimal Weights Based Sky Images Cloud Motion Speed Calculation Method for Solar PV Power Forecasting. IEEE Transactions on Industry Applications, 2019, 55, 3331-3342.	3.3	107
98	Virtual Inertia and Mechanical Power-Based Control Strategy to Provide Stable Grid Operation under High Renewables Penetration. Applied Sciences (Switzerland), 2019, 9, 1043.	1.3	10
99	Hybrid Forecasting Model for Short-Term Electricity Market Prices with Renewable Integration. Sustainability, 2019, 11, 57.	1.6	16
100	Interdependence between transportation system and power distribution system: a comprehensive review on models and applications. Journal of Modern Power Systems and Clean Energy, 2019, 7, 433-448.	3.3	79
101	Comprehensive Review of the Recent Advances in Industrial and Commercial DR. IEEE Transactions on Industrial Informatics, 2019, 15, 3757-3771.	7.2	56
102	Large-Scale Grid Integration of Renewable Energy Resources with a Double Synchronous Controller. Applied Sciences (Switzerland), 2019, 9, 5548.	1.3	0
103	Application of Opportunistic Information-Gap Decision Theory on Demand Response Aggregator in the Day-Ahead Electricity Market. , 2019, , .		4
104	Analysis Application of Controllable Load Appliances Management in a Smart Home. Energies, 2019, 12, 3710.	1.6	13
105	Control of MMC-Based STATCOM as an Effective Interface between Energy Sources and the Power Grid. Electronics (Switzerland), 2019, 8, 1264.	1.8	8
106	Optimal Operation of Electric Vehicle Parking Lots with Rooftop Photovoltaics. , 2019, , .		13
107	Two-Stage Stochastic Mixed Integer Programming Approach for Optimal SCUC by Economic DR Model. , 2019, , .		1
108	Real-Time Scheduling of Demand Response Options Considering the Volatility of Wind Power Generation. IEEE Transactions on Sustainable Energy, 2019, 10, 1633-1643.	5.9	20

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109	Risk-Based Distributionally Robust Optimal Gas-Power Flow With Wasserstein Distance. IEEE Transactions on Power Systems, 2019, 34, 2190-2204.	4.6	66
110	Smart Wire Placement to Facilitate Large-Scale Wind Energy Integration: An Adaptive Robust Approach. IEEE Transactions on Sustainable Energy, 2019, 10, 1981-1992.	5.9	10
111	Three-Level Hybrid Energy Storage Planning Under Uncertainty. IEEE Transactions on Industrial Electronics, 2019, 66, 2174-2184.	5.2	20
112	Optimal Scheduling of Demand Response in Pre-Emptive Markets Based on Stochastic Bilevel Programming Method. IEEE Transactions on Industrial Electronics, 2019, 66, 1453-1464.	5.2	58
113	Combining the Flexibility From Shared Energy Storage Systems and DLC-Based Demand Response of HVAC Units for Distribution System Operation Enhancement. IEEE Transactions on Sustainable Energy, 2019, 10, 137-148.	5.9	56
114	Decentralized Control of DR Using a Multi-agent Method. Studies in Systems, Decision and Control, 2018, , 233-249.	0.8	10
115	Synchronous Pattern Matching Principle-Based Residential Demand Response Baseline Estimation: Mechanism Analysis and Approach Description. IEEE Transactions on Smart Grid, 2018, 9, 6972-6985.	6.2	161
116	Fast Decomposed Energy Flow in Large-Scale Integrated Electricity-Gas-Heat Energy Systems. IEEE Transactions on Sustainable Energy, 2018, 9, 1565-1577.	5.9	81
117	Bundled Generation and Transmission Planning Under Demand and Wind Generation Uncertainty Based on a Combination of Robust and Stochastic Optimization. IEEE Transactions on Sustainable Energy, 2018, 9, 1477-1486.	5.9	59
118	Multi-Objective Optimization Model of Source-Load-Storage Synergetic Dispatch for a Building Energy Management System Based on TOU Price Demand Response. IEEE Transactions on Industry Applications, 2018, 54, 1017-1028.	3.3	197
119	Optimal Demand Response Strategies to Mitigate Oligopolistic Behavior of Generation Companies Using a Multi-Objective Decision Analysis. IEEE Transactions on Power Systems, 2018, 33, 4264-4274.	4.6	12
120	Novel Control Strategy for Modular Multilevel Converters Based on Differential Flatness Theory. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 888-897.	3.7	46
121	A Decentralized Renewable Generation Management and Demand Response in Power Distribution Networks. IEEE Transactions on Sustainable Energy, 2018, 9, 1783-1797.	5.9	104
122	Strategic Behavior of Multi-Energy Players in Electricity Markets as Aggregators of Demand Side Resources Using a Bi-Level Approach. IEEE Transactions on Power Systems, 2018, 33, 397-411.	4.6	113
123	An Innovative Two-Level Model for Electric Vehicle Parking Lots in Distribution Systems With Renewable Energy. IEEE Transactions on Smart Grid, 2018, 9, 1506-1520.	6.2	95
124	Energy Management of a Smart Railway Station Considering Regenerative Braking and Stochastic Behaviour of ESS and PV Generation. IEEE Transactions on Sustainable Energy, 2018, 9, 1041-1050.	5.9	111
125	A Decentralized Electricity Market Scheme Enabling Demand Response Deployment. IEEE Transactions on Power Systems, 2018, 33, 4218-4227.	4.6	109
126	Evolution of Demand Response: A Historical Analysis of Legislation and Research Trends. , 2018, , .		12

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127	Pattern Classification and PSO Optimal Weights Based Sky Images Cloud Motion Speed Calculation Method for Solar PV Power Forecasting. , 2018, , .		7
128	Design of Power Supply Service Plan for Electric Company Considering Harmonic Management. , 2018, , .		2
129	Distribution System Operation with Electric Vehicle Charging Schedules and Renewable Energy Resources. Energies, 2018, 11, 3117.	1.6	28
130	Shared Energy Storage and Direct Load Control for Improved Flexibility of Distribution System Operation. , 2018, , .		0
131	Economic Operation of a Micro-Grid considering Demand Side Flexibility and Common ESS Availability. , 2018, , .		0
132	Consensus-Based Demand-Side Participation in Smart Microgrid Emergency Operation. , 2018, , .		0
133	Synchronous Resonant Control Technique to Address Power Grid Instability Problems Due to High Renewables Penetration. Energies, 2018, 11, 2469.	1.6	17
134	Scenario Based Analysis of an EV Parking Lot Equipped with a Roof-Top PV Unit within Distribution Systems. , 2018, , .		4
135	A Linear Multi-Objective Operation Model for Smart Distribution Systems Coordinating Tap-Changers, Photovoltaics and Battery Energy Storage. , 2018, , .		3
136	A Distributed PV System Capacity Estimation Approach Based on Support Vector Machine with Customer Net Load Curve Features. Energies, 2018, 11, 1750.	1.6	59
137	Model Predictive Control Home Energy Management and Optimization Strategy with Demand Response. Applied Sciences (Switzerland), 2018, 8, 408.	1.3	77
138	Time-Section Fusion Pattern Classification Based Day-Ahead Solar Irradiance Ensemble Forecasting Model Using Mutual Iterative Optimization. Energies, 2018, 11, 184.	1.6	14
139	Risk-Based Two-Stage Stochastic Optimization Problem of Micro-Grid Operation with Renewables and Incentive-Based Demand Response Programs. Energies, 2018, 11, 610.	1.6	28
140	Direct-Lyapunov-Based Control Scheme for Voltage Regulation in a Three-Phase Islanded Microgrid with Renewable Energy Sources. Energies, 2018, 11, 1161.	1.6	5
141	End-User Comfort Oriented Day-Ahead Planning for Responsive Residential HVAC Demand Aggregation Considering Weather Forecasts. IEEE Transactions on Smart Grid, 2017, 8, 362-372.	6.2	115
142	Dynamic Price Vector Formation Model-Based Automatic Demand Response Strategy for PV-Assisted EV Charging Stations. IEEE Transactions on Smart Grid, 2017, 8, 2903-2915.	6.2	208
143	Aggregation of Distributed Energy Resources Under the Concept of Multienergy Players in Local Energy Systems. IEEE Transactions on Sustainable Energy, 2017, 8, 1679-1693.	5.9	57
144	EV charging effect on a distribution transformer supplying a factory with local PV generation. , 2017, , .		1

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145	Assessing the effectiveness of decision making frameworks in local energy systems. , 2017, , .		0
146	A new approach for market power detection in renewable-based electricity markets. , 2017, , .		2
147	New Multistage and Stochastic Mathematical Model for Maximizing RES Hosting Capacity”Part I: Problem Formulation. IEEE Transactions on Sustainable Energy, 2017, 8, 304-319.	5.9	112
148	Plug-In Electric Vehicles Parking Lot Equilibria With Energy and Reserve Markets. IEEE Transactions on Power Systems, 2017, 32, 2001-2016.	4.6	76
149	Dynamic Model, Control and Stability Analysis of MMC in HVDC Transmission Systems. IEEE Transactions on Power Delivery, 2017, 32, 1471-1482.	2.9	99
150	Double synchronous controller for integration of large-scale renewable energy sources into a low-inertia power grid. , 2017, , .		10
151	Synchronous active proportional resonant-based control technique for high penetration of distributed generation units into power grids. , 2017, , .		7
152	Experimental Results on a Wireless Wattmeter Device for the Integration in Home Energy Management Systems. Energies, 2017, 10, 398.	1.6	11
153	A Review of Smart Cities Based on the Internet of Things Concept. Energies, 2017, 10, 421.	1.6	403
154	The Mutual Impact of Demand Response Programs and Renewable Energies: A Survey. Energies, 2017, 10, 1353.	1.6	13
155	A Decentralized Multi-Agent-Based Approach for Low Voltage Microgrid Restoration. Energies, 2017, 10, 1491.	1.6	16
156	Risk-Based Bi-Level Model for Simultaneous Profit Maximization of a Smart Distribution Company and Electric Vehicle Parking Lot Owner. Energies, 2017, 10, 1714.	1.6	10
157	Multi-objective optimization model of source-load-storage synergetic dispatch for building energy system based on TOU price demand response. , 2017, , .		7
158	Design and Implementation of an Interactive Interface for Demand Response and Home Energy Management Applications. Applied Sciences (Switzerland), 2017, 7, 641.	1.3	9
159	Enhanced Forecasting Approach for Electricity Market Prices and Wind Power Data Series in the Short-Term. Energies, 2016, 9, 693.	1.6	17
160	A Novel Modulation Function-Based Control of Modular Multilevel Converters for High Voltage Direct Current Transmission Systems. Energies, 2016, 9, 867.	1.6	19
161	The role of residential HVAC units in demand side flexibility considering end-user comfort. , 2016, , .		2
162	Integrating the PEVs' traffic pattern in parking lots and charging stations in micro multi-energy systems. , 2016, , .		3

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163	Optimal operation of smart houses by a real-time rolling horizon algorithm. , 2016, , .		10
164	Optimal Single Wind Hydro-Pump Storage Bidding in Day-Ahead Markets Including Bilateral Contracts. IEEE Transactions on Sustainable Energy, 2016, 7, 1284-1294.	5.9	69
165	Effect of plug-in electric vehicles traffic behavior on multi-energy demand's dependency. , 2016, , .		0
166	Assessment of Demand-Response-Driven Load Pattern Elasticity Using a Combined Approach for Smart Households. IEEE Transactions on Industrial Informatics, 2016, 12, 1529-1539.	7.2	82
167	Modeling Operational Behavior of Plug-in Electric Vehiclesâ€™ Parking Lot in Multienergy Systems. IEEE Transactions on Smart Grid, 2016, 7, 124-135.	6.2	83
168	Risk-Constrained Offering Strategy for Aggregated Hybrid Power Plant Including Wind Power Producer and Demand Response Provider. IEEE Transactions on Sustainable Energy, 2016, 7, 513-525.	5.9	92
169	Coordinated Operation of a Neighborhood of Smart Households Comprising Electric Vehicles, Energy Storage and Distributed Generation. IEEE Transactions on Smart Grid, 2016, 7, 2736-2747.	6.2	175
170	Consideration of the Impacts of a Smart Neighborhood Load on Transformer Aging. IEEE Transactions on Smart Grid, 2016, 7, 2793-2802.	6.2	32
171	Optimal Behavior of Electric Vehicle Parking Lots as Demand Response Aggregation Agents. IEEE Transactions on Smart Grid, 2016, 7, 2654-2665.	6.2	195
172	Control of Modular Multilevel Converters for integration of distributed generation sources into the power grid. , 2015, , .		9
173	Smart Home Communication Technologies and Applications: Wireless Protocol Assessment for Home Area Network Resources. Energies, 2015, 8, 7279-7311.	1.6	121
174	Effect of Loads and Other Key Factors on Oil-Transformer Ageing: Sustainability Benefits and Challenges. Energies, 2015, 8, 12147-12186.	1.6	76
175	Optimal Household Appliances Scheduling Under Day-Ahead Pricing and Load-Shaping Demand Response Strategies. IEEE Transactions on Industrial Informatics, 2015, 11, 1509-1519.	7.2	341
176	Stable operation of distributed generation units in microgrid networks. , 2015, , .		1
177	A Multifunction Control Strategy for the Stable Operation of DG Units in Smart Grids. IEEE Transactions on Smart Grid, 2015, 6, 598-607.	6.2	52
178	Stochastic Modeling of Multienergy Carriers Dependencies in Smart Local Networks With Distributed Energy Resources. IEEE Transactions on Smart Grid, 2015, 6, 1748-1762.	6.2	97
179	Integration of DG sources for compensation of unbalanced loads in the power grid. , 2015, , .		2
180	Multifunctional control of an NPC converter for the grid integration of renewable energy sources. , 2015, , .		4

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181	Strategic Offering for a Price-Maker Wind Power Producer in Oligopoly Markets Considering Demand Response Exchange. IEEE Transactions on Industrial Informatics, 2015, 11, 1542-1553.	7.2	53
182	Optimal generic energy storage system offering in day-ahead electricity markets. , 2015, , .		5
183	Allocation of Plug-In Vehicles' Parking Lots in Distribution Systems Considering Network-Constrained Objectives. IEEE Transactions on Power Systems, 2015, 30, 2643-2656.	4.6	154
184	Smart Household Operation Considering Bi-Directional EV and ESS Utilization by Real-Time Pricing-Based DR. IEEE Transactions on Smart Grid, 2015, 6, 1281-1291.	6.2	373
185	Hybrid evolutionary-adaptive approach to predict electricity prices and wind power in the short-term. , 2014, , .		4
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