

Joo P S Catalo, Ieee Fellow

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.

165
papers

4,427
citations

39
h-index

62
g-index

190
ext. papers

5,964
ext. citations

5.7
avg, IF

6.34
L-index

#	Paper	IF	Citations
165	Operation of a Technical Virtual Power Plant Considering Diverse Distributed Energy Resources. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	1
164	Dynamic Distribution System Reconfiguration Considering Distributed Renewable Energy Sources and Energy Storage Systems. <i>IEEE Systems Journal</i> , 2022 , 1-11	4.3	1
163	Demand Response Program Integrated With Electrical Energy Storage Systems for Residential Consumers. <i>IEEE Systems Journal</i> , 2022 , 1-12	4.3	1
162	Integrated Rail System and EV Parking Lot Operation with Regenerative Braking Energy, Energy Storage System and PV Availability. <i>IEEE Transactions on Smart Grid</i> , 2022 , 1-1	10.7	1
161	Resiliency-Driven Multi-Step Critical Load Restoration Strategy Integrating On-Call Electric Vehicle Fleet Management Services. <i>IEEE Transactions on Smart Grid</i> , 2022 , 1-1	10.7	2
160	Peer-to-Peer Electricity Market Based on Local Supervision. <i>IEEE Access</i> , 2021 , 9, 156647-156662	3.5	1
159	Bi-Level Decomposition Approach for Coordinated Planning of an Energy Hub With Gas-Electricity Integrated Systems. <i>IEEE Systems Journal</i> , 2021 , 1-11	4.3	2
158	Blockchain-Based Transactive Energy Framework for Connected Virtual Power Plants. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	2
157	Iterative Game Approach for Modeling the Behavior of Agents in a Competitive Flexibility Trading. <i>IEEE Access</i> , 2021 , 9, 165227-165238	3.5	0
156	Storage and Transmission Capacity Requirements of a Remote Solar Power Generation System. <i>IEEE Systems Journal</i> , 2021 , 1-4	4.3	
155	Flexibility Requirement when Tracking Renewable Power Fluctuation with Peer-to-Peer Energy Sharing. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	0
154	A New Hybrid Deep Neural Architectural Search based Ensemble Reinforcement Learning Strategy for Wind Power Forecasting. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	1
153	Coordinated flexible energy and self-healing management according to the multi-agent system-based restoration scheme in active distribution network. <i>IET Renewable Power Generation</i> , 2021 , 15, 1765-1777	2.9	2
152	Optimal Singular Value Decomposition Based Big Data Compression Approach in Smart Grids. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 3296-3305	4.3	2
151	Optimal Bidding Strategy of Demand Response Aggregator Based On Customers Responsiveness Behaviors Modeling Under Different Incentives. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 3329-3340 ¹⁰	4.3	10
150	Sky Image Prediction Model Based on Convolutional Auto-Encoder for Minutely Solar PV Power Forecasting. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 3272-3281	4.3	4
149	Frequency-Domain Decomposition and Deep Learning Based Solar PV Power Ultra-Short-Term Forecasting Model. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 3282-3295	4.3	12

148	Multiobjective Optimal Power Flow Using a Semidefinite Programming-Based Model. <i>IEEE Systems Journal</i> , 2021 , 15, 158-169	4.3	5
147	Extended Kalman Filter-Based Approach for Nodal Pricing in Active Distribution Networks. <i>IEEE Systems Journal</i> , 2021 , 15, 487-496	4.3	4
146	Network-Constrained Joint Energy and Flexible Ramping Reserve Market Clearing of Power- and Heat-Based Energy Systems: A Two-Stage Hybrid IGDT Stochastic Framework. <i>IEEE Systems Journal</i> , 2021 , 15, 1547-1556	4.3	23
145	Risk-Averse Optimal Energy and Reserve Scheduling for Virtual Power Plants Incorporating Demand Response Programs. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 1405-1415	10.7	18
144	Optimal placement of battery swap stations in microgrids with micro pumped hydro storage systems, photovoltaic, wind and geothermal distributed generators. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 125, 106483	5.1	12
143	Joint Energy and Reserve Scheduling of a Wind Power Producer in a Peer-to-Peer Mechanism. <i>IEEE Systems Journal</i> , 2021 , 15, 4315-4324	4.3	1
142	. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 3379-3389	10.7	9
141	Exploitation of Microgrid Flexibility in Distribution System Hosting Prosumers. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 4222-4231	4.3	6
140	Deep Convolutional Graph Rough Variational Auto-Encoder for Short-Term Photovoltaic Power Forecasting 2021 ,		4
139	Exploiting the Potentials of HVAC Systems in Transactive Energy Markets. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 4039-4048	10.7	7
138	Novel Hybrid Stochastic-Robust Optimal Trading Strategy for a Demand Response Aggregator in the Wholesale Electricity Market. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 5488-5498	4.3	4
137	Energy Hub Design in the Presence of P2G System Considering the Variable Efficiencies of Gas-Fired Converters 2021 ,		3
136	A Dijkstra-Inspired Graph Algorithm for Fully Autonomous Tasking in Industrial Applications. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 5448-5460	4.3	2
135	A New Ensemble Reinforcement Learning Strategy for Solar Irradiance Forecasting using Deep Optimized Convolutional Neural Network Models 2021 ,		4
134	. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 12, 2293-2305	8.2	1
133	A Novel Evolutionary-Based Deep Convolutional Neural Network Model for Intelligent Load Forecasting. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 8243-8253	11.9	37
132	Closed loop Aggregated Baseline Load Estimation using Contextual Bandit with Policy Gradient. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	2
131	Synergies Between Transportation Systems, Energy Hub and the Grid in Smart Cities. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-15	6.1	7

130	A Comprehensive Overview of Dynamic Line Rating Combined with Other Flexibility Options from an Operational Point of View. <i>Energies</i> , 2020 , 13, 6563	3.1	9
129	Flexibility-Oriented Scheduling of Microgrids Considering the Risk of Uncertainties 2020 ,		2
128	Prosumer Flexibility: A Comprehensive State-of-the-Art Review and Scientometric Analysis. <i>Energies</i> , 2020 , 13, 2710	3.1	14
127	Optimal Operation of Energy Hubs Considering Uncertainties and Different Time Resolutions. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 5543-5552	4.3	43
126	Optimal Day-Ahead Scheduling and Operation of the Prosumer by Considering Corrective Actions Based on Very Short-Term Load Forecasting. <i>IEEE Access</i> , 2020 , 8, 83561-83582	3.5	13
125	Power Quality Improvement with a Pulse Width Modulation Control Method in Modular Multilevel Converters under Varying Nonlinear Loads. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3292	2.6	1
124	Improved EMD-Based Complex Prediction Model for Wind Power Forecasting. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 2790-2802	8.2	41
123	Day-Ahead Market Participation of an Active Distribution Network Equipped With Small-Scale CAES Systems. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 2966-2979	10.7	5
122	A Novel Ensemble Algorithm for Solar Power Forecasting Based on Kernel Density Estimation. <i>Energies</i> , 2020 , 13, 216	3.1	18
121	Continuous-Time Co-Operation of Integrated Electricity and Natural Gas Systems With Responsive Demands Under Wind Power Generation Uncertainty. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 3156-3170	10.7	8
120	An Optimal Home Energy Management Paradigm With an Adaptive Neuro-Fuzzy Regulation. <i>IEEE Access</i> , 2020 , 8, 19614-19628	3.5	16
119	Ultra-Short-Term Solar PV Power Forecasting Method Based on Frequency-Domain Decomposition and Deep Learning 2020 ,		1
118	Enhancing Transient Stability of Distribution Networks With Massive Proliferation of Converter-Interfaced Distributed Generators. <i>IEEE Systems Journal</i> , 2020 , 1-12	4.3	
117	Offering Strategy of Thermal-Photovoltaic-Storage Based Generation Company in Day-Ahead Market 2020 , 113-133		4
116	Allocation of Fast-Acting Energy Storage Systems in Transmission Grids With High Renewable Generation. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 1728-1738	8.2	11
115	The future of power systems: Challenges, trends, and upcoming paradigms. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2020 , 9, e368	4.7	16
114	Impact of Energy Storage on Economic Dispatch of Distribution Systems: A Multi-Parametric Linear Programming Approach and its Implications. <i>IEEE Open Access Journal of Power and Energy</i> , 2020 , 7, 243-253	3.8	10
113	Optimal Battery Storage Arbitrage Considering Degradation Cost in Energy Markets 2020 ,		1

112	Demand Response based Trading Framework in the Presence of Fuel Cells Using Information-Gap Decision Theory 2020 ,		3
111	Optimal Day-Ahead Self-Scheduling and Operation of Prosumer Microgrids Using Hybrid Machine Learning-Based Weather and Load Forecasting. <i>IEEE Access</i> , 2020 , 8, 157284-157305	3.5	25
110	Analyzing and Quantifying the Intrinsic Distributional Robustness of CVaR Reformulation for Chance-Constrained Stochastic Programs. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 4908-4911	7	1
109	. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 3-14	8.2	49
108	Security-Constrained Unit Commitment With Natural Gas Pipeline Transient Constraints. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 118-128	10.7	20
107	Self-Scheduling Approach to Coordinating Wind Power Producers With Energy Storage and Demand Response. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 1210-1219	8.2	19
106	Energy Management Strategy in Dynamic Distribution Network Reconfiguration Considering Renewable Energy Resources and Storage. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 662-673	8.2	61
105	Monopolistic and Game-Based Approaches to Transact Energy Flexibility. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 1075-1084	7	15
104	Risk-Oriented Multi-Area Economic Dispatch Solution With High Penetration of Wind Power Generation and Compressed Air Energy Storage System. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 1569-1578	8.2	6
103	A Risk-Based Decision Framework for the Distribution Company in Mutual Interaction With the Wholesale Day-Ahead Market and Microgrids. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 764-778	11.9	18
102	Probabilistic Model for Microgrids Optimal Energy Management Considering AC Network Constraints. <i>IEEE Systems Journal</i> , 2020 , 14, 2703-2712	4.3	4
101	A New Approach for Grid-Connected Hybrid Renewable Energy System Sizing Considering Harmonic Contents of Smart Home Appliances. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3941	2.6	3
100	Demand-Side Management of Smart Distribution Grids Incorporating Renewable Energy Sources. <i>Energies</i> , 2019 , 12, 143	3.1	9
99	Analysis of Switch Automation Based on Active Reconfiguration Considering Reliability, Energy Storage Systems, and Variable Renewables. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 6355-6367	4.7	5
98	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 4441-4450	4.3	30
97	Development of a Smart Thermostat Controller for Direct Load Control Based Demand Response Applications 2019 ,		2
96	Optimal Management of an Energy Storage Unit in a PV-Based Microgrid Integrating Uncertainty and Risk. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 169	2.6	13
95	Multi-Objective Market Clearing Model with an Autonomous Demand Response Scheme. <i>Energies</i> , 2019 , 12, 1261	3.1	1

94	Urban Wind Resource Assessment: A Case Study on Cape Town. <i>Energies</i> , 2019 , 12, 1479	3.1	6
93	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 3331-3342	4.3	60
92	Virtual Inertia and Mechanical Power-Based Control Strategy to Provide Stable Grid Operation under High Renewables Penetration. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1043	2.6	10
91	Hybrid Forecasting Model for Short-Term Electricity Market Prices with Renewable Integration. <i>Sustainability</i> , 2019 , 11, 57	3.6	7
90	Interdependence between transportation system and power distribution system: a comprehensive review on models and applications. <i>Journal of Modern Power Systems and Clean Energy</i> , 2019 , 7, 433-448 ⁴		41
89	Comprehensive Review of the Recent Advances in Industrial and Commercial DR. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 3757-3771	11.9	27
88	Assessing Increased Flexibility of Energy Storage and Demand Response to Accommodate a High Penetration of Renewable Energy Sources. <i>IEEE Transactions on Sustainable Energy</i> , 2019 , 10, 659-669	8.2	62
87	Demand Response-Based Operation Model in Electricity Markets With High Wind Power Penetration. <i>IEEE Transactions on Sustainable Energy</i> , 2019 , 10, 918-930	8.2	18
86	Optimal Spinning Reserve Allocation in Presence of Electrical Storage and Renewable Energy Sources 2019 ,		10
85	Security-Constrained Unit Commitment Problem With Transmission Switching Reliability and Dynamic Thermal Line Rating. <i>IEEE Systems Journal</i> , 2019 , 13, 3933-3943	4.3	23
84	Stochastic Demand Side Management in European Zonal Price Market 2019 ,		2
83	Large-Scale Grid Integration of Renewable Energy Resources with a Double Synchronous Controller. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5548	2.6	
82	Application of Opportunistic Information-Gap Decision Theory on Demand Response Aggregator in the Day-Ahead Electricity Market 2019 ,		1
81	Analysis Application of Controllable Load Appliances Management in a Smart Home. <i>Energies</i> , 2019 , 12, 3710	3.1	6
80	Control of MMC-Based STATCOM as an Effective Interface between Energy Sources and the Power Grid. <i>Electronics (Switzerland)</i> , 2019 , 8, 1264	2.6	1
79	Optimal Operation of Electric Vehicle Parking Lots with Rooftop Photovoltaics 2019 ,		10
78	Real-Time Scheduling of Demand Response Options Considering the Volatility of Wind Power Generation. <i>IEEE Transactions on Sustainable Energy</i> , 2019 , 10, 1633-1643	8.2	9
77	Risk-Based Distributionally Robust Optimal Gas-Power Flow With Wasserstein Distance. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 2190-2204	7	38

76	Smart Wire Placement to Facilitate Large-Scale Wind Energy Integration: An Adaptive Robust Approach. <i>IEEE Transactions on Sustainable Energy</i> , 2019 , 10, 1981-1992	8.2	6
75	Three-Level Hybrid Energy Storage Planning Under Uncertainty. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2174-2184	8.9	12
74	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 1453-1464	8.9	38
73	Combining the Flexibility From Shared Energy Storage Systems and DLC-Based Demand Response of HVAC Units for Distribution System Operation Enhancement. <i>IEEE Transactions on Sustainable Energy</i> , 2019 , 10, 137-148	8.2	39
72	Decentralized Control of DR Using a Multi-agent Method. <i>Studies in Systems, Decision and Control</i> , 2018 , 233-249	0.8	7
71	. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 6972-6985	10.7	100
70	Fast Decomposed Energy Flow in Large-Scale Integrated Electricity-Gas-Heat Energy Systems. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 1565-1577	8.2	47
69	Bundled Generation and Transmission Planning Under Demand and Wind Generation Uncertainty Based on a Combination of Robust and Stochastic Optimization. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 1477-1486	8.2	38
68	. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 1017-1028	4.3	127
67	Optimal Demand Response Strategies to Mitigate Oligopolistic Behavior of Generation Companies Using a Multi-Objective Decision Analysis. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 4264-4274	7	7
66	Novel Control Strategy for Modular Multilevel Converters Based on Differential Flatness Theory. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 888-897	5.6	30
65	A Decentralized Renewable Generation Management and Demand Response in Power Distribution Networks. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 1783-1797	8.2	92
64	Strategic Behavior of Multi-Energy Players in Electricity Markets as Aggregators of Demand Side Resources Using a Bi-Level Approach. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 397-411	7	76
63	An Innovative Two-Level Model for Electric Vehicle Parking Lots in Distribution Systems With Renewable Energy. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 1506-1520	10.7	61
62	. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 1041-1050	8.2	68
61	Model Predictive Control Home Energy Management and Optimization Strategy with Demand Response. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 408	2.6	57
60	Time-Section Fusion Pattern Classification Based Day-Ahead Solar Irradiance Ensemble Forecasting Model Using Mutual Iterative Optimization. <i>Energies</i> , 2018 , 11, 184	3.1	8
59	Risk-Based Two-Stage Stochastic Optimization Problem of Micro-Grid Operation with Renewables and Incentive-Based Demand Response Programs. <i>Energies</i> , 2018 , 11, 610	3.1	21

58	Direct-Lyapunov-Based Control Scheme for Voltage Regulation in a Three-Phase Islanded Microgrid with Renewable Energy Sources. <i>Energies</i> , 2018 , 11, 1161	3.1	5
57	A Decentralized Electricity Market Scheme Enabling Demand Response Deployment. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 4218-4227	7	82
56	Evolution of Demand Response: A Historical Analysis of Legislation and Research Trends 2018 ,		9
55	Pattern Classification and PSO Optimal Weights Based Sky Images Cloud Motion Speed Calculation Method for Solar PV Power Forecasting 2018 ,		4
54	Design of Power Supply Service Plan for Electric Company Considering Harmonic Management 2018 ,		1
53	Distribution System Operation with Electric Vehicle Charging Schedules and Renewable Energy Resources. <i>Energies</i> , 2018 , 11, 3117	3.1	20
52	Synchronous Resonant Control Technique to Address Power Grid Instability Problems Due to High Renewables Penetration. <i>Energies</i> , 2018 , 11, 2469	3.1	13
51	Scenario Based Analysis of an EV Parking Lot Equipped with a Roof-Top PV Unit within Distribution Systems 2018 ,		3
50	A Linear Multi-Objective Operation Model for Smart Distribution Systems Coordinating Tap-Changers, Photovoltaics and Battery Energy Storage 2018 ,		2
49	A Distributed PV System Capacity Estimation Approach Based on Support Vector Machine with Customer Net Load Curve Features. <i>Energies</i> , 2018 , 11, 1750	3.1	36
48	End-User Comfort Oriented Day-Ahead Planning for Responsive Residential HVAC Demand Aggregation Considering Weather Forecasts. <i>IEEE Transactions on Smart Grid</i> , 2017 , 8, 362-372	10.7	89
47	Dynamic Price Vector Formation Model-Based Automatic Demand Response Strategy for PV-Assisted EV Charging Stations. <i>IEEE Transactions on Smart Grid</i> , 2017 , 8, 2903-2915	10.7	126
46	Aggregation of Distributed Energy Resources Under the Concept of Multienergy Players in Local Energy Systems. <i>IEEE Transactions on Sustainable Energy</i> , 2017 , 8, 1679-1693	8.2	39
45	Multi-objective optimization model of source-load-storage synergetic dispatch for building energy system based on TOU price demand response 2017 ,		5
44	Design and Implementation of an Interactive Interface for Demand Response and Home Energy Management Applications. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 641	2.6	7
43	EV charging effect on a distribution transformer supplying a factory with local PV generation 2017 ,		1
42	A new approach for market power detection in renewable-based electricity markets 2017 ,		1
41	New Multistage and Stochastic Mathematical Model for Maximizing RES Hosting Capacity Part I: Problem Formulation. <i>IEEE Transactions on Sustainable Energy</i> , 2017 , 8, 304-319	8.2	77

40	. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 2001-2016	7	53
39	Dynamic Model, Control and Stability Analysis of MMC in HVDC Transmission Systems. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 1471-1482	4.3	65
38	Double synchronous controller for integration of large-scale renewable energy sources into a low-inertia power grid 2017 ,		6
37	Synchronous active proportional resonant-based control technique for high penetration of distributed generation units into power grids 2017 ,		5
36	Experimental Results on a Wireless Wattmeter Device for the Integration in Home Energy Management Systems. <i>Energies</i> , 2017 , 10, 398	3.1	9
35	A Review of Smart Cities Based on the Internet of Things Concept. <i>Energies</i> , 2017 , 10, 421	3.1	282
34	The Mutual Impact of Demand Response Programs and Renewable Energies: A Survey. <i>Energies</i> , 2017 , 10, 1353	3.1	10
33	A Decentralized Multi-Agent-Based Approach for Low Voltage Microgrid Restoration. <i>Energies</i> , 2017 , 10, 1491	3.1	10
32	Risk-Based Bi-Level Model for Simultaneous Profit Maximization of a Smart Distribution Company and Electric Vehicle Parking Lot Owner. <i>Energies</i> , 2017 , 10, 1714	3.1	7
31	The Impacts of Demand Response on the Efficiency of Energy Markets in the Presence of Wind Farms. <i>IFIP Advances in Information and Communication Technology</i> , 2017 , 287-296	0.5	1
30	Assessment of Demand-Response-Driven Load Pattern Elasticity Using a Combined Approach for Smart Households. <i>IEEE Transactions on Industrial Informatics</i> , 2016 , 12, 1529-1539	11.9	60
29	. <i>IEEE Transactions on Smart Grid</i> , 2016 , 7, 124-135	10.7	65
28	Risk-Constrained Offering Strategy for Aggregated Hybrid Power Plant Including Wind Power Producer and Demand Response Provider. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 513-525	8.2	74
27	Coordinated Operation of a Neighborhood of Smart Households Comprising Electric Vehicles, Energy Storage and Distributed Generation. <i>IEEE Transactions on Smart Grid</i> , 2016 , 7, 2736-2747	10.7	127
26	Consideration of the Impacts of a Smart Neighborhood Load on Transformer Aging. <i>IEEE Transactions on Smart Grid</i> , 2016 , 7, 2793-2802	10.7	25
25	Optimal Behavior of Electric Vehicle Parking Lots as Demand Response Aggregation Agents. <i>IEEE Transactions on Smart Grid</i> , 2016 , 7, 2654-2665	10.7	118
24	Enhanced Forecasting Approach for Electricity Market Prices and Wind Power Data Series in the Short-Term. <i>Energies</i> , 2016 , 9, 693	3.1	12
23	A Novel Modulation Function-Based Control of Modular Multilevel Converters for High Voltage Direct Current Transmission Systems. <i>Energies</i> , 2016 , 9, 867	3.1	16

22	The role of residential HVAC units in demand side flexibility considering end-user comfort 2016 ,		1
21	Integrating the PEVs' traffic pattern in parking lots and charging stations in micro multi-energy systems 2016 ,		1
20	Optimal operation of smart houses by a real-time rolling horizon algorithm 2016 ,		3
19	Optimal Single Wind Hydro-Pump Storage Bidding in Day-Ahead Markets Including Bilateral Contracts. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1284-1294	8.2	39
18	Optimal Behavior of Demand Response Aggregators in Providing Balancing and Ancillary Services in Renewable-Based Power Systems. <i>IFIP Advances in Information and Communication Technology</i> , 2015 , 309-316	0.5	1
17	Stochastic Modeling of Multienergy Carriers Dependencies in Smart Local Networks With Distributed Energy Resources. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 1748-1762	10.7	77
16	Integration of DG sources for compensation of unbalanced loads in the power grid 2015 ,		1
15	Multifunctional control of an NPC converter for the grid integration of renewable energy sources 2015 ,		3
14	Strategic Offering for a Price-Maker Wind Power Producer in Oligopoly Markets Considering Demand Response Exchange. <i>IEEE Transactions on Industrial Informatics</i> , 2015 , 11, 1542-1553	11.9	40
13	Optimal generic energy storage system offering in day-ahead electricity markets 2015 ,		4
12	Allocation of Plug-In Vehicles' Parking Lots in Distribution Systems Considering Network-Constrained Objectives. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 2643-2656	7	115
11	Smart Household Operation Considering Bi-Directional EV and ESS Utilization by Real-Time Pricing-Based DR. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 1281-1291	10.7	279
10	Control of Modular Multilevel Converters for integration of distributed generation sources into the power grid 2015 ,		7
9	Smart Home Communication Technologies and Applications: Wireless Protocol Assessment for Home Area Network Resources. <i>Energies</i> , 2015 , 8, 7279-7311	3.1	83
8	Effect of Loads and Other Key Factors on Oil-Transformer Ageing: Sustainability Benefits and Challenges. <i>Energies</i> , 2015 , 8, 12147-12186	3.1	60
7	Optimal Household Appliances Scheduling Under Day-Ahead Pricing and Load-Shaping Demand Response Strategies. <i>IEEE Transactions on Industrial Informatics</i> , 2015 , 11, 1509-1519	11.9	243
6	Stable operation of distributed generation units in microgrid networks 2015 ,		1
5	A Multifunction Control Strategy for the Stable Operation of DG Units in Smart Grids. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 598-607	10.7	42

4	Direct Lyapunov Control Technique for the Stable Operation of Multilevel Converter-Based Distributed Generation in Power Grid. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2014 , 2, 931-941	5.6	27
3	. <i>IEEE Transactions on Sustainable Energy</i> , 2014 , 5, 1036-1047	8.2	62
2	Hybrid evolutionary-adaptive approach to predict electricity prices and wind power in the short-term 2014 ,		4
1	Application of adaptive neuro-fuzzy inference for wind power short-term forecasting. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2011 , 6, 571-576	1	14