

Jps Catalao

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.

810
papers

18,065
citations

68
h-index

98
g-index

995
ext. papers

23,853
ext. citations

6.1
avg, IF

7.84
L-index

#	Paper	IF	Citations
810	Resilience Metrics for Integrated Power and Natural Gas Systems. <i>IEEE Transactions on Smart Grid</i> , 2022 , 1-1	10.7	0
809	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
808	Dynamic Distribution System Reconfiguration Considering Distributed Renewable Energy Sources and Energy Storage Systems. <i>IEEE Systems Journal</i> , 2022 , 1-11	4.3	1
807	A Block-Coordinate-Descent Robust Approach to Incentive-Based Integrated Demand Response in Managing Multi-Energy Hubs with Must-Run Processes. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	0
806	An Efficient Model for Accurate Evaluation of Consumption Pattern in Distribution System Reconfiguration. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	0
805	Transmission-constrained optimal allocation of price-maker wind-storage units in electricity markets. <i>Applied Energy</i> , 2022 , 310, 118542	10.7	1
804	A sustainable framework for multi-microgrids energy management in automated distribution network by considering smart homes and high penetration of renewable energy resources. <i>Energy</i> , 2022 , 245, 123228	7.9	14
803	Risk-averse decision under worst-case continuous and discrete uncertainties in transmission system with the support of active distribution systems. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 138, 107913	5.1	
802	Interactive Multi-level planning for energy management in clustered microgrids considering flexible demands. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 138, 107978	5.1	0
801	Benefiting from Energy-Hub Flexibilities to Reinforce Distribution System Resilience: A Pre- and Post-Disaster Management Model. <i>IEEE Systems Journal</i> , 2022 , 1-10	4.3	3
800	Supplementary Feedforward Voltage Control in a Reconfigurable Distribution Network using Robust Optimization. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	
799	A fully decentralized machine learning algorithm for optimal power flow with cooperative information exchange. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 139, 107990	5.1	0
798	Optimal sizing of renewable energy systems in a Microgrid considering electricity market interaction and reliability analysis. <i>Electric Power Systems Research</i> , 2022 , 203, 107678	3.5	3
797	Optimal energy management system for microgrids considering energy storage, demand response and renewable power generation. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 136, 107714	5.1	5
796	Coordinating energy management systems in smart cities with electric vehicles. <i>Applied Energy</i> , 2022 , 307, 118241	10.7	6
795	Effect of power-to-gas technology in energy hub optimal operation and gas network congestion reduction. <i>Energy</i> , 2022 , 240, 122835	7.9	11
794	Short-term reliability and economic evaluation of resilient microgrids under incentive-based demand response programs. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 138, 107918	5.1	3

793	Optimal price-based and emergency demand response programs considering consumers preferences. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 138, 107890	5.1	0
792	A two-stage joint operation and planning model for sizing and siting of electrical energy storage devices considering demand response programs. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 138, 107912	5.1	11
791	Coordinated expansion planning problem considering wind farms, energy storage systems and demand response. <i>Energy</i> , 2022 , 239, 122321	7.9	4
790	Optimal bidding strategy of a renewable-based virtual power plant including wind and solar units and dispatchable loads. <i>Energy</i> , 2022 , 239, 122379	7.9	10
789	Optimal scheduling of self-healing distribution systems considering distributed energy resource capacity withholding strategies. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 136, 107662	5.1	2
788	Coordination of wind power producers with an energy storage system for the optimal participation in wholesale electricity markets. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 136, 107672	5.1	1
787	Comprehensive review on the strategies for controlling the interconnection of AC and DC microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 136, 107742	5.1	6
786	Optimal market-based operation of microgrid with the integration of wind turbines, energy storage system and demand response resources. <i>Energy</i> , 2022 , 239, 122156	7.9	6
785	Household profile identification for behavioral demand response: A semi-supervised learning approach using smart meter data. <i>Energy</i> , 2022 , 238, 121728	7.9	4
784	An integrated framework for dynamic capacity withholding assessment considering commitment strategies of generation companies. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 134, 107321	5.1	2
783	Transactive energy framework in multi-carrier energy hubs: A fully decentralized model. <i>Energy</i> , 2022 , 238, 121717	7.9	18
782	An ultra-short-term wind speed forecasting model based on time scale recognition and dynamic adaptive modeling. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 135, 107502	5.1	4
781	Hybrid planning of distributed generation and distribution automation to improve reliability and operation indices. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 135, 107540	5.1	3
780	Energy storage systems implementation and photovoltaic output prediction for cost minimization of a Microgrid. <i>Electric Power Systems Research</i> , 2022 , 202, 107596	3.5	1
779	A satellite image data based ultra-short-term solar PV power forecasting method considering cloud information from neighboring plant. <i>Energy</i> , 2022 , 238, 121946	7.9	2
778	Strategic Offering of a Price Maker Wind Power Producer in Distribution-Level Energy Markets in Presence of Flexible Prosumers. <i>IEEE Access</i> , 2022 , 10, 21475-21485	3.5	0
777	A New Uncertainty-aware Deep Neuroevolution Model for Quantifying Tidal Prediction. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	1
776	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

775	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
774	A framework for participation of prosumers in peer-to-peer energy trading and flexibility markets. <i>Applied Energy</i> , 2022 , 314, 118907	10.7	4
773	Optimal probabilistic operation of energy hub with various energy converters and electrical storage based on electricity, heat, natural gas, and biomass by proposing innovative uncertainty modeling methods. <i>Journal of Energy Storage</i> , 2022 , 51, 104344	7.8	2
772	A multi-stage joint planning and operation model for energy hubs considering integrated demand response programs. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 140, 108103	5.1	10
771	An advanced short-term wind power forecasting framework based on the optimized deep neural network models. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 141, 108143	5.1	3
770	Smart Charging and Operation of Electric Fleet Vehicles in a Smart City 2022 , 61-94		
769	Dual-EKF-Based Fault Tolerant Predictive Control of Nonlinear DC Microgrids with Actuator and Sensor Faults. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	1
768	A conservative framework for obtaining uncertain bands of multiple wind farms in electric power networks by proposed IGDT-based approach considering decision-maker's preferences. <i>Journal of Cleaner Production</i> , 2022 , 358, 131963	10.3	0
767	Stochastic Optimal Operation Framework of an Integrated Methane-Based Zero-CO ₂ Energy Hub in Energy Markets. <i>Electric Power Systems Research</i> , 2022 , 209, 108005	3.5	1
766	Increasing RES Hosting Capacity in Distribution Networks Through Closed-Loop Reconfiguration and Volt/VAr Control. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	0
765	Regret-based management of wind-solar-thermal generation company under uncertainties: A novel stochastic p-robust optimization approach. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 102313	4.7	0
764	Modeling the Microgrid Operator Participation in Day-ahead Energy and Reserve Markets considering Stochastic Decisions in the Real-time Market. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	0
763	A microgrid formation-based restoration model for resilient distribution systems using distributed energy resources and demand response programs. <i>Sustainable Cities and Society</i> , 2022 , 103975	10.1	0
762	Pave the way for sustainable smart homes: A reliable hybrid AC/DC electricity infrastructure. <i>Electric Power Systems Research</i> , 2022 , 210, 108128	3.5	0
761	Resilience Enhancement via Automatic Switching considering Direct Load Control Program and Energy Storage Systems 2021 ,		6
760	Robust optimal energy management of data center equipped with multi-energy conversion technologies. <i>Journal of Cleaner Production</i> , 2021 , 129616	10.3	0
759	Peer-to-Peer Electricity Market Based on Local Supervision. <i>IEEE Access</i> , 2021 , 9, 156647-156662	3.5	1
758	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

757	Blockchain-Based Transactive Energy Framework for Connected Virtual Power Plants. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	2
756	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
755	Wide-Area Composite Load Parameter Identification Based on Multi-Residual Deep Neural Network.. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	1
754	Evaluating the Impact of Bilateral Contracts on the Offering Strategy of a Price Maker Wind Power Producer. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	0
753	Storage and Transmission Capacity Requirements of a Remote Solar Power Generation System. <i>IEEE Systems Journal</i> , 2021 , 1-4	4.3	
752	Multi-Carrier Microgrid Operation Model using Stochastic Mixed Integer Linear Programming. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	1
751	Community-Based Solar-Powered Electric Vehicle Parking Lots 2021 , 1-19		
750	Service Restoration for Resilient Distribution Systems Coordinated with Damage Assessment. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	
749	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
748	Editorial Special Section on Invited Papers in 2021 on Emerging Topics in the Power and Energy Society. <i>IEEE Open Access Journal of Power and Energy</i> , 2021 , 8, 421-422	3.8	
747	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
746	Multi-Period Restoration Model for Integrated Power-Hydrogen-Transportation Systems. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	3
745	A Machine Learning-based Vulnerability Analysis for Cascading Failures of Integrated Power-Gas Systems. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	3
744	Analysis Of Contractions In System Graphs: Application To State Estimation 2021 ,		1
743	Conditional Value-at-Risk Model for Smart Home Energy Management Systems. <i>E-Prime</i> , 2021 , 1, 100006		3
742	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
741	Financial Risk-Based Scheduling of Micro grids Accompanied by Surveying the Influence of the Demand Response Program 2021 ,		4
740	Towards Flexible Distribution Systems: Future Adaptive Management Schemes. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3709	2.6	8

739	Self-scheduling model for home energy management systems considering the end-users discomfort index within price-based demand response programs. <i>Sustainable Cities and Society</i> , 2021 , 68, 102792	10.1	31
738	Adjustable robust optimization approach for two-stage operation of energy hub-based microgrids. <i>Energy</i> , 2021 , 222, 119894	7.9	30
737	Energy management in microgrids including smart homes: A multi-objective approach. <i>Sustainable Cities and Society</i> , 2021 , 69, 102852	10.1	50
736	Optimal Operation of Solar Powered Electric Vehicle Parking Lots Considering Different Photovoltaic Technologies. <i>Clean Technologies</i> , 2021 , 3, 503-518	3.4	3
735	An interactive multi-criteria decision-making framework between a renewable power plant planner and the independent system operator. <i>Sustainable Energy, Grids and Networks</i> , 2021 , 26, 100447	3.6	1
734	Energy management modeling for a community-based electric vehicle parking lots in a power distribution grid. <i>Journal of Energy Storage</i> , 2021 , 38, 102531	7.8	5
733	Optimal HVAC System Operation Using Online Learning of Interconnected Neural Networks. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 3030-3042	10.7	2
732	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
731	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
730	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
729	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
728	Multiobjective Optimal Power Flow Using a Semidefinite Programming-Based Model. <i>IEEE Systems Journal</i> , 2021 , 15, 158-169	4.3	5
727	Peer-to-Peer Energy Trading Between Wind Power Producer and Demand Response Aggregators for Scheduling Joint Energy and Reserve. <i>IEEE Systems Journal</i> , 2021 , 15, 705-714	4.3	14
726	Extended Kalman Filter-Based Approach for Nodal Pricing in Active Distribution Networks. <i>IEEE Systems Journal</i> , 2021 , 15, 487-496	4.3	4
725	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
724	. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 3241-3252	11.9	5
723	A stochastic short-term scheduling of virtual power plants with electric vehicles under competitive markets. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 124, 106343	5.1	10
722	Stochastic bi-level coordination of active distribution network and renewable-based microgrid considering eco-friendly Compressed Air Energy Storage system and Intelligent Parking Lot. <i>Journal of Cleaner Production</i> , 2021 , 278, 122808	10.3	10

721	Optimal scheduling of an EV aggregator for demand response considering triple level benefits of three-parties. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 125, 106447	5.1	19
720	. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 525-528	7	2
719	Assessing hybrid supercapacitor-battery energy storage for active power management in a wind-diesel system. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 125, 106391	5.1	16
718	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
717	Multi-level optimization framework for resilient distribution system expansion planning with distributed energy resources. <i>Energy</i> , 2021 , 214, 118807	7.9	6
716	Bi-level optimization model for the coordination between transmission and distribution systems interacting with local energy markets. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 124, 106392	5.1	11
715	Implementing a demand side management strategy for harmonics mitigation in a smart home using real measurements of household appliances. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 125, 106528	5.1	6
714	Hybrid stochastic/robust optimization model for resilient architecture of distribution networks against extreme weather conditions. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 126, 106576	5.1	27
713	Robust optimization of renewable-based multi-energy micro-grid integrated with flexible energy conversion and storage devices. <i>Sustainable Cities and Society</i> , 2021 , 64, 102532	10.1	43
712	Zero Energy Building by Multicarrier Energy Systems including Hydro, Wind, Solar, and Hydrogen. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 5474-5484	11.9	15
711	Effects of resilience-oriented design on distribution networks operation planning. <i>Electric Power Systems Research</i> , 2021 , 191, 106902	3.5	21
710	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
709	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
708	. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 12, 705-714	8.2	5
707	PMU-Based Power System Stabilizer Design: Optimal Signal Selection and Controller Design. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	2
706	A Peer-to-Peer Energy Trading Framework for Wind Power Producers With Load Serving Entities in Retailing Layer. <i>IEEE Systems Journal</i> , 2021 , 1-10	4.3	1
705	Linearized Stochastic Optimization Framework for Day-Ahead Scheduling of a Biogas-Based Energy Hub Under Uncertainty. <i>IEEE Access</i> , 2021 , 1-1	3.5	3
704	. <i>IEEE Access</i> , 2021 , 9, 86369-86381	3.5	5

703	Experimentally Validated Extended Kalman Filter Approach for Geomagnetically Induced Currents Measurement. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	0
702	Flexibility Services Provision by Frequency-Dependent Control of On-Load Tap-Changer and Distributed Energy Resources. <i>IEEE Access</i> , 2021 , 9, 45587-45599	3.5	7
701	. <i>IEEE Access</i> , 2021 , 1-1	3.5	6
700	Transmission Expansion Planning Considering Power Losses, Expansion of Substations and Uncertainty in Fuel Price Using Discrete Artificial Bee Colony Algorithm. <i>IEEE Access</i> , 2021 , 1-1	3.5	2
699	Demand response role for enhancing the flexibility of local energy systems 2021 , 279-313		15
698	. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 3379-3389	10.7	9
697	Day-ahead optimal bidding of microgrids considering uncertainties of price and renewable energy resources. <i>Energy</i> , 2021 , 227, 120476	7.9	14
696	Exploitation of Microgrid Flexibility in Distribution System Hosting Prosumers. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 4222-4231	4.3	6
695	Two-Stage Chance-Constrained Stochastic Thermal Unit Commitment for Optimal Provision of Virtual Inertia in Wind-Storage Systems. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 3520-3530	7	12
694	Day-ahead scheduling of energy hubs with parking lots for electric vehicles considering uncertainties. <i>Energy</i> , 2021 , 229, 120709	7.9	18
693	Spatiotemporal Splitting of Distribution Networks Into Self-Healing Resilient Microgrids Using an Adjustable Interval Optimization. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 5218-5229	11.9	3
692	Deep Convolutional Graph Rough Variational Auto-Encoder for Short-Term Photovoltaic Power Forecasting 2021 ,		4
691	Exploiting the Potentials of HVAC Systems in Transactive Energy Markets. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 4039-4048	10.7	7
690	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
689	Resilience improvement of multi-microgrid distribution networks using distributed generation. <i>Sustainable Energy, Grids and Networks</i> , 2021 , 27, 100503	3.6	1
688	Coordinated scheduling of energy storage systems as a fast reserve provider. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 130, 106941	5.1	4
687	Increasing the RES Hosting Capacity in Distribution Systems Through Reconfiguration with Closed-Loop Operation and Voltage Control 2021 ,		1
686	Energy Hub Design in the Presence of P2G System Considering the Variable Efficiencies of Gas-Fired Converters 2021 ,		3

685	Adaptive robust co-optimization of wind energy generation, electric vehicle batteries and flexible AC transmission system devices. <i>Energy</i> , 2021 , 230, 120781	7.9	5
684	Stochastic planning of a multi-microgrid considering integration of renewable energy resources and real-time electricity market. <i>Applied Energy</i> , 2021 , 298, 117215	10.7	23
683	Application of small-scale compressed air energy storage in the daily operation of an active distribution system. <i>Energy</i> , 2021 , 231, 120961	7.9	1
682	Data-Driven Chance-Constrained Optimal Gas-Power Flow Calculation: A Bayesian Nonparametric Approach. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 4683-4698	7	5
681	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
680	Forecast-Based Consensus Control for DC Microgrids Using Distributed Long Short-Term Memory Deep Learning Models. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 3718-3730	10.7	7
679	A New Ensemble Reinforcement Learning Strategy for Solar Irradiance Forecasting using Deep Optimized Convolutional Neural Network Models 2021 ,		4
678	Information gap decision theory (IGDT)-based robust scheduling of combined cooling, heat and power energy hubs. <i>Energy</i> , 2021 , 231, 120918	7.9	23
677	Optimal offering of wind-photovoltaic-thermal generation company in energy and reserve markets in the presence of environmental and risk analysis. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 47, 101567	4.7	1
676	Hybrid stochastic/robust flexible and reliable scheduling of secure networked microgrids with electric springs and electric vehicles. <i>Applied Energy</i> , 2021 , 300, 117395	10.7	9
675	. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 12, 2293-2305	8.2	1
674	Hybrid stochastic risk-based approach for a microgrid participating in coupled active and reactive power market. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 131, 107080	5.1	5
673	Optimal resilient operation of multi-carrier energy systems in electricity markets considering distributed energy resource aggregators. <i>Applied Energy</i> , 2021 , 299, 117271	10.7	9
672	Economic dispatch of power systems with LMP-dependent demands: A non-iterative MILP model. <i>Energy</i> , 2021 , 233, 121015	7.9	0
671	A coordinated energy management framework for industrial, residential and commercial energy hubs considering demand response programs. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 47, 101376	4.7	11
670	Modeling an electric vehicle parking lot with solar rooftop participating in the reserve market and in ancillary services provision. <i>Journal of Cleaner Production</i> , 2021 , 318, 128503	10.3	9
669	Integrated Demand Response programs and energy hubs retail energy market modelling. <i>Energy</i> , 2021 , 234, 121239	7.9	10
668	Optimal bidding of profit-seeking virtual associations of smart prosumers considering peer to peer energy sharing strategy. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 132, 107175	5.1	1

667	Hierarchical approach for coordinating energy and flexibility trading in local energy markets. <i>Applied Energy</i> , 2021 , 302, 117575	10.7	8
666	Holistic approach to resilient electrical energy distribution network planning. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 132, 107212	5.1	2
665	Comprehensive survey on support policies and optimal market participation of renewable energy. <i>Electric Power Systems Research</i> , 2021 , 201, 107522	3.5	2
664	Rooftop photovoltaic parking lots to support electric vehicles charging: A comprehensive survey. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 133, 107274	5.1	6
663	Load restoration and energy management of a microgrid with distributed energy resources and electric vehicles participation under a two-stage stochastic framework. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 133, 107320	5.1	7
662	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
661	Robust-based risk assessment of buildings in resiliency and self-scheduling operations for coordinated vehicle-to-home and renewable resources. <i>Sustainable Cities and Society</i> , 2021 , 75, 103250	10.1	0
660	Economic-environmental analysis of renewable-based microgrid under a CVaR-based two-stage stochastic model with efficient integration of plug-in electric vehicle and demand response. <i>Sustainable Cities and Society</i> , 2021 , 75, 103276	10.1	8
659	Preserving Privacy of Smart Meter Data in a Smart Grid Environment. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	13
658	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
657	A Local Capacity Market Providing Local and System-Wide Flexibility Services. <i>IEEE Access</i> , 2021 , 9, 52336-52356	9.5	16
656	Influence of Battery Energy Storage Systems on Transmission Grid Operation With a Significant Share of Variable Renewable Energy Sources. <i>IEEE Systems Journal</i> , 2021 , 1-12	4.3	3
655	Optimal Peak Shaving Control Using Dynamic Demand and Feed-In Limits for Grid-Connected PV Sources With Batteries. <i>IEEE Systems Journal</i> , 2021 , 1-11	4.3	4
654	An Overview of Demand Response: From its Origins to the Smart Energy Community. <i>IEEE Access</i> , 2021 , 9, 96851-96876	3.5	6
653	Blockchain-Based Fully Peer-to-Peer Energy Trading Strategies for Residential Energy Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	19
652	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
651	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
650	A Logistics Management System for a Biomass-to-Energy Production Plant Storage Park. <i>Energies</i> , 2020 , 13, 5512	3.1	3

649	Flexibility-Oriented Scheduling of Microgrids Considering the Risk of Uncertainties 2020 ,		2
648	Selecting the Optimal Signals in Phasor Measurement Unit-based Power System Stabilizer Design 2020 ,		2
647	Artificial neural network approach for revealing market competitors behaviour. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 1292-1297	2.5	5
646	Multi-objective optimisation method for coordinating battery storage systems, photovoltaic inverters and tap changers. <i>IET Renewable Power Generation</i> , 2020 , 14, 475-483	2.9	8
645	Designing an optimized configuration for a hybrid PV/Diesel/Battery Energy System based on metaheuristics: A case study on Gobi Desert. <i>Journal of Cleaner Production</i> , 2020 , 270, 122467	10.3	30
644	Blockchain and its application fields in both power economy and demand side management 2020 , 103-130		2
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386	Impact of tertiary reserve sharing in Portugal. <i>Utilities Policy</i> , 2018 , 55, 167-177	3.3	3
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367	Scenario Based Analysis of an EV Parking Lot Equipped with a Roof-Top PV Unit within Distribution Systems 2018 ,		3
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324	Simulation study of a photovoltaic cell with increasing levels of model complexity 2017,		3
323	Evaluating the security of electrical energy distribution networks in the presence of electric vehicles 2017,		12
322	Stochastic mathematical model for high penetration of renewable energy sources in distribution systems 2017,		2
321	Home HVAC energy management and optimization with model predictive control 2017,		6
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311	Coordinated distribution network reconfiguration and distributed generation allocation via genetic algorithm 2017,		3
310	Hybrid time triggered protocol for home wireless communications 2017,		1
309	A new approach for market power detection in renewable-based electricity markets 2017,		1
308	Dynamic reconfiguration of distribution network systems: A key flexibility option for RES integration 2017,		4

307	Managing RES uncertainty and stability issues in distribution systems via energy storage systems and switchable reactive power sources 2017 ,		1
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293	Comparison of two control strategies in an autonomous hybrid microgrid 2017 ,		2
292	Smart railway station energy management considering regenerative braking and ESS 2017 ,		3
291	Investigation of smart distribution network response to operation performance of plug-in hybrid electric vehicles 2017 ,		1
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287	Optimal sizing and siting of distributed generation and EV charging stations in distribution systems 2017,		4
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285	Optimal sizing and placement of smart-grid-enabling technologies for maximizing renewable integration 2017, 47-81		2
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266	Simultaneous participation of Demand Response aggregators in ancillary services and Demand Response eXchange markets 2016 ,		8
265	Innovative experimental low cost electronics operated instrumentation for wearable health systems with high resolution physiological measurements 2016 ,		2
264	Influence of distributed storage systems and network switching/reinforcement on RES-based DG integration level 2016 ,		4
263	Analysis and control of single-phase converters for integration of small-scaled renewable energy sources into the power grid 2016 ,		7
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232	Integrating the PEVs' traffic pattern in parking lots and charging stations in micro multi-energy systems 2016 ,		1
231	Impacts of Demand Response on oligopolistic behavior of electricity market players in the day-ahead energy market 2016 ,		2
230	A control technique for operation of single-phase converters in stand-alone operating mode 2016 ,		2
229	A new dynamic and stochastic distributed generation investment planning model with recourse 2016 ,		2
228	Dynamic performance control of modular multilevel converters in HVDC transmission systems 2016 ,		2
227	A short-term spatio-temporal approach for Photovoltaic power forecasting 2016 ,		6
226	2016 ,		5
225	Regulatory support of wind power producers against strategic and collusive behavior of conventional thermal units 2016 ,		1
224	Optimal operation of smart houses by a real-time rolling horizon algorithm 2016 ,		3
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194	Smart and energy-efficient home implementation: Wireless communication technologies role 2015 ,		3
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192	Short-Term trading for a photovoltaic power producer in electricity markets 2015 ,		4
191	Optimal operational and economical coordination strategy for a smart neighborhood 2015 ,		5
190	Optimal daily operation of a smart-household under dynamic pricing considering thermostatically and non-thermostatically controllable appliances 2015 ,		4
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182	Optimal generic energy storage system offering in day-ahead electricity markets 2015 ,		4

181	Comparison of battery models for energy storage applications on insular grids 2015 ,		1
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169	Impacts of stochastic demand response resource scheduling on large scale wind power integration 2015 ,		1
168	Offering strategy of a Plug-in Electric Vehicle parking lot in renewable-based distribution networks 2015 ,		2
167	Smart Home Communication Technologies and Applications: Wireless Protocol Assessment for Home Area Network Resources. <i>Energies</i> , 2015 , 8, 7279-7311	3.1	83
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161	Assessment of PEV owners' preferences impact on PEV parking lot transactions 2015 ,		1
160	Electric vehicles home charging impact on a distribution transformer in a Portuguese Island 2015 ,		8
159	Demand response driven load pattern elasticity analysis for smart households 2015 ,		2
158	Now-casting Photovoltaic power with wavelet analysis and Extreme Learning Machines 2015 ,		1
157	Optimal coordination of Battery Energy Storages and Demand Response Programs with application to wind integration 2015 ,		6
156	Enhancing home appliances energy optimization with solar power integration 2015 ,		8
155	An EMD-ANN based prediction methodology for DR driven smart household load demand 2015 ,		1
154	Stable operation of distributed generation units in microgrid networks 2015 ,		1
153	Artificial neural network-based methodology for short-term electric load scenario generation 2015 ,		2
152	MPC weights tuning role on the energy optimization in residential appliances 2015 ,		4
151	An innovative technique for energy storage system management based on vanadium redox batteries 2015 ,		1
150	Control and stability analysis of interfaced converter in distributed generation technology 2015 ,		3
149	Impact of EV charging-at-work on an industrial client distribution transformer in a Portuguese Island 2015 ,		2
148	DG investment planning analysis with renewable integration and considering emission costs 2015 ,		1
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119	Analysis of electrical energy storage technologies' state-of-the-art and applications on islanded grid systems 2014 ,		10
118	Hybrid evolutionary-adaptive approach to predict electricity prices and wind power in the short-term 2014 ,		4
117	Modeling the optimal behavior of PEV parking lots in energy and reserve market 2014 ,		4
116	Serving flexible reliability in hybrid AC-DC microgrid using demand response and renewable energy resources 2014 ,		5
115	NaS battery storage system modeling and sizing for extending wind farms performance in Crete 2014 ,		3
114	2014 ,		3
113	Impact of electric vehicle V2G operation and demand response strategies for smart households 2014 ,		2
112	A probabilistic approach to solve economic dispatch problem in systems with intermittent power sources 2014 ,		1
111	Investigating the effects of flexible load in the grid integration of wind power 2014 ,		1
110	Probability theory-based economic dispatch model for insular power systems 2014 ,		1

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