

# Jps Catalao

## List of Publications by Citations

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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	An overview of Demand Response: Key-elements and international experience. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 69, 871-891	16.2	282
809	A Review of Smart Cities Based on the Internet of Things Concept. <i>Energies</i> , <b>2017</b> , 10, 421	3.1	282
808	Smart Household Operation Considering Bi-Directional EV and ESS Utilization by Real-Time Pricing-Based DR. <i>IEEE Transactions on Smart Grid</i> , <b>2015</b> , 6, 1281-1291	10.7	279
807	Short-term electricity prices forecasting in a competitive market: A neural network approach. <i>Electric Power Systems Research</i> , <b>2007</b> , 77, 1297-1304	3.5	273
806	Optimal Household Appliances Scheduling Under Day-Ahead Pricing and Load-Shaping Demand Response Strategies. <i>IEEE Transactions on Industrial Informatics</i> , <b>2015</b> , 11, 1509-1519	11.9	243
805	Short-term wind power forecasting in Portugal by neural networks and wavelet transform. <i>Renewable Energy</i> , <b>2011</b> , 36, 1245-1251	8.1	202
804	Hybrid Wavelet-PSO-ANFIS Approach for Short-Term Electricity Prices Forecasting. <i>IEEE Transactions on Power Systems</i> , <b>2011</b> , 26, 137-144	7	180
803	Biomass combustion systems: A review on the physical and chemical properties of the ashes. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 53, 235-242	16.2	170
802	Stochastic optimization of energy hub operation with consideration of thermal energy market and demand response. <i>Energy Conversion and Management</i> , <b>2017</b> , 145, 117-128	10.6	166
801	A review on torrefied biomass pellets as a sustainable alternative to coal in power generation. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 40, 153-160	16.2	165
800	The values of market-based demand response on improving power system reliability under extreme circumstances. <i>Applied Energy</i> , <b>2017</b> , 193, 220-231	10.7	144
799	A Stochastic Home Energy Management System Considering Satisfaction Cost and Response Fatigue. <i>IEEE Transactions on Industrial Informatics</i> , <b>2018</b> , 14, 629-638	11.9	144
798	Short-term wind power forecasting using adaptive neuro-fuzzy inference system combined with evolutionary particle swarm optimization, wavelet transform and mutual information. <i>Renewable Energy</i> , <b>2015</b> , 75, 301-307	8.1	143
797	Energy storage systems supporting increased penetration of renewables in islanded systems. <i>Energy</i> , <b>2014</b> , 75, 265-280	7.9	139
796	A survey of industrial applications of Demand Response. <i>Electric Power Systems Research</i> , <b>2016</b> , 141, 31-49	3.5	132
795	Photovoltaic and wind energy systems monitoring and building/home energy management using ZigBee devices within a smart grid. <i>Energy</i> , <b>2013</b> , 49, 306-315	7.9	131
794	. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 1017-1028	4.3	127

793	Coordinated Operation of a Neighborhood of Smart Households Comprising Electric Vehicles, Energy Storage and Distributed Generation. <i>IEEE Transactions on Smart Grid</i> , <b>2016</b> , 7, 2736-2747	10.7	127
792	Dynamic Price Vector Formation Model-Based Automatic Demand Response Strategy for PV-Assisted EV Charging Stations. <i>IEEE Transactions on Smart Grid</i> , <b>2017</b> , 8, 2903-2915	10.7	126
791	A hybrid PSO-ANFIS approach for short-term wind power prediction in Portugal. <i>Energy Conversion and Management</i> , <b>2011</b> , 52, 397-402	10.6	119
790	Optimal Behavior of Electric Vehicle Parking Lots as Demand Response Aggregation Agents. <i>IEEE Transactions on Smart Grid</i> , <b>2016</b> , 7, 2654-2665	10.7	118
789	Allocation of Plug-In Vehicles' Parking Lots in Distribution Systems Considering Network-Constrained Objectives. <i>IEEE Transactions on Power Systems</i> , <b>2015</b> , 30, 2643-2656	7	115
788	Optimal bidding strategy of electricity retailers using robust optimisation approach considering time-of-use rate demand response programs under market price uncertainties. <i>IET Generation, Transmission and Distribution</i> , <b>2015</b> , 9, 328-338	2.5	114
787	Scheduling of Head-Sensitive Cascaded Hydro Systems: A Nonlinear Approach. <i>IEEE Transactions on Power Systems</i> , <b>2009</b> , 24, 337-346	7	113
786	A new perspective for sizing of distributed generation and energy storage for smart households under demand response. <i>Applied Energy</i> , <b>2015</b> , 143, 26-37	10.7	110
785	Comparative Study of Advanced Signal Processing Techniques for Islanding Detection in a Hybrid Distributed Generation System. <i>IEEE Transactions on Sustainable Energy</i> , <b>2015</b> , 6, 122-131	8.2	105
784	A stochastic self-scheduling program for compressed air energy storage (CAES) of renewable energy sources (RESs) based on a demand response mechanism. <i>Energy Conversion and Management</i> , <b>2016</b> , 120, 388-396	10.6	103
783	A multi-objective model for optimal operation of a battery/PV/fuel cell/grid hybrid energy system using weighted sum technique and fuzzy satisfying approach considering responsible load management. <i>Solar Energy</i> , <b>2017</b> , 144, 79-89	6.8	100
782	. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 6972-6985	10.7	100
781	Mixed biomass pellets for thermal energy production: A review of combustion models. <i>Applied Energy</i> , <b>2014</b> , 127, 135-140	10.7	100
780	Generative adversarial networks and convolutional neural networks based weather classification model for day ahead short-term photovoltaic power forecasting. <i>Energy Conversion and Management</i> , <b>2019</b> , 181, 443-462	10.6	98
779	Energy storage system and demand response program effects on stochastic energy procurement of large consumers considering renewable generation. <i>IET Generation, Transmission and Distribution</i> , <b>2016</b> , 10, 107-114	2.5	97
778	Stochastic energy procurement of large electricity consumer considering photovoltaic, wind-turbine, micro-turbines, energy storage system in the presence of demand response program. <i>Energy Conversion and Management</i> , <b>2015</b> , 103, 1008-1018	10.6	96
777	Optimal stochastic energy management of retailer based on selling price determination under smart grid environment in the presence of demand response program. <i>Applied Energy</i> , <b>2017</b> , 187, 449-464	10.7	95
776	Multi-Period Integrated Framework of Generation, Transmission, and Natural Gas Grid Expansion Planning for Large-Scale Systems. <i>IEEE Transactions on Power Systems</i> , <b>2015</b> , 30, 2527-2537	7	93

775	Probabilistic Load Forecasting Using an Improved Wavelet Neural Network Trained by Generalized Extreme Learning Machine. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 6961-6971	10.7	93
774	A Decentralized Renewable Generation Management and Demand Response in Power Distribution Networks. <i>IEEE Transactions on Sustainable Energy</i> , <b>2018</b> , 9, 1783-1797	8.2	92
773	End-User Comfort Oriented Day-Ahead Planning for Responsive Residential HVAC Demand Aggregation Considering Weather Forecasts. <i>IEEE Transactions on Smart Grid</i> , <b>2017</b> , 8, 362-372	10.7	89
772	A cost-emission model for fuel cell/PV/battery hybrid energy system in the presence of demand response program: $\mu$ -constraint method and fuzzy satisfying approach. <i>Energy Conversion and Management</i> , <b>2017</b> , 138, 383-392	10.6	89
771	Stochastic network-constrained co-optimization of energy and reserve products in renewable energy integrated power and gas networks with energy storage system. <i>Journal of Cleaner Production</i> , <b>2019</b> , 223, 747-758	10.3	88
770	Application of fuel cell and electrolyzer as hydrogen energy storage system in energy management of electricity energy retailer in the presence of the renewable energy sources and plug-in electric vehicles. <i>Energy Conversion and Management</i> , <b>2017</b> , 136, 404-417	10.6	86
769	Optimal Feature and Decision Tree-Based Classification of Power Quality Disturbances in Distributed Generation Systems. <i>IEEE Transactions on Sustainable Energy</i> , <b>2014</b> , 5, 200-208	8.2	85
768	Impact of distributed generation on protection and voltage regulation of distribution systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 105, 157-167	16.2	84
767	Association rule mining based quantitative analysis approach of household characteristics impacts on residential electricity consumption patterns. <i>Energy Conversion and Management</i> , <b>2018</b> , 171, 839-854	10.6	84
766	Multi-Objective Reconfiguration of Radial Distribution Systems Using Reliability Indices. <i>IEEE Transactions on Power Systems</i> , <b>2016</b> , 31, 1048-1062	7	83
765	Smart Home Communication Technologies and Applications: Wireless Protocol Assessment for Home Area Network Resources. <i>Energies</i> , <b>2015</b> , 8, 7279-7311	3.1	83
764	A Decentralized Electricity Market Scheme Enabling Demand Response Deployment. <i>IEEE Transactions on Power Systems</i> , <b>2018</b> , 33, 4218-4227	7	82
763	A bottom-up approach for demand response aggregators participation in electricity markets. <i>Electric Power Systems Research</i> , <b>2017</b> , 143, 121-129	3.5	79
762	Optimal stochastic short-term thermal and electrical operation of fuel cell/photovoltaic/battery/grid hybrid energy system in the presence of demand response program. <i>Energy Conversion and Management</i> , <b>2017</b> , 144, 132-142	10.6	78
761	A Stochastic Multi-Layer Agent-Based Model to Study Electricity Market Participants Behavior. <i>IEEE Transactions on Power Systems</i> , <b>2015</b> , 30, 867-881	7	78
760	A cost-emission framework for hub energy system under demand response program. <i>Energy</i> , <b>2017</b> , 134, 157-166	7.9	77
759	Stochastic Modeling of Multienergy Carriers Dependencies in Smart Local Networks With Distributed Energy Resources. <i>IEEE Transactions on Smart Grid</i> , <b>2015</b> , 6, 1748-1762	10.7	77
758	New Multistage and Stochastic Mathematical Model for Maximizing RES Hosting Capacity Part I: Problem Formulation. <i>IEEE Transactions on Sustainable Energy</i> , <b>2017</b> , 8, 304-319	8.2	77

757	Short-term electricity prices forecasting in a competitive market by a hybrid PSO-ANFIS approach. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2012</b> , 39, 29-35	5.1	77
756	Hybrid Wavelet-PSO-ANFIS Approach for Short-Term Wind Power Forecasting in Portugal. <i>IEEE Transactions on Sustainable Energy</i> , <b>2010</b> ,	8.2	77
755	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> , <b>2018</b> , 33, 397-411	7	76
754	Optimal performance of microgrid in the presence of demand response exchange: A stochastic multi-objective model. <i>Computers and Electrical Engineering</i> , <b>2019</b> , 74, 429-450	4.3	76
753	Optimal operation of hybrid AC/DC microgrids under uncertainty of renewable energy resources: A comprehensive review. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2019</b> , 109, 139-159	5.1	76
752	Overview of insular power systems under increasing penetration of renewable energy sources: Opportunities and challenges. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 52, 333-346	16.2	75
751	Coordinated wind-thermal-energy storage offering strategy in energy and spinning reserve markets using a multi-stage model. <i>Applied Energy</i> , <b>2020</b> , 259, 114168	10.7	75
750	Risk-Constrained Offering Strategy for Aggregated Hybrid Power Plant Including Wind Power Producer and Demand Response Provider. <i>IEEE Transactions on Sustainable Energy</i> , <b>2016</b> , 7, 513-525	8.2	74
749	Stochastic planning and operation of energy hubs considering demand response programs using Benders decomposition approach. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2020</b> , 120, 106030	5.1	73
748	Hydro energy systems management in Portugal: Profit-based evaluation of a mixed-integer nonlinear approach. <i>Energy</i> , <b>2011</b> , 36, 500-507	7.9	72
747	Image phase shift invariance based cloud motion displacement vector calculation method for ultra-short-term solar PV power forecasting. <i>Energy Conversion and Management</i> , <b>2018</b> , 157, 123-135	10.6	71
746	Integration of emerging resources in IGDT-based robust scheduling of combined power and natural gas systems considering flexible ramping products. <i>Energy</i> , <b>2019</b> , 189, 116195	7.9	70
745	Impacts of optimal energy storage deployment and network reconfiguration on renewable integration level in distribution systems. <i>Applied Energy</i> , <b>2017</b> , 185, 44-55	10.7	70
744	Frequency regulation in hybrid power systems using particle swarm optimization and linear matrix inequalities based robust controller design. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2014</b> , 63, 887-900	5.1	69
743	. <i>IEEE Transactions on Sustainable Energy</i> , <b>2018</b> , 9, 1041-1050	8.2	68
742	Optimal bidding and offering strategies of merchant compressed air energy storage in deregulated electricity market using robust optimization approach. <i>Energy</i> , <b>2018</b> , 142, 250-257	7.9	67
741	A comprehensive survey of flexibility options for supporting the low-carbon energy future. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 97, 338-353	16.2	67
740	. <i>IEEE Transactions on Smart Grid</i> , <b>2016</b> , 7, 124-135	10.7	65

739	Dynamic Model, Control and Stability Analysis of MMC in HVDC Transmission Systems. <i>IEEE Transactions on Power Delivery</i> , <b>2017</b> , 32, 1471-1482	4.3	65
738	Daily pattern prediction based classification modeling approach for day-ahead electricity price forecasting. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2019</b> , 105, 529-540	5.1	65
737	Optimal trading of plug-in electric vehicle aggregation agents in a market environment for sustainability. <i>Applied Energy</i> , <b>2016</b> , 162, 601-612	10.7	64
736	Optimal hydro scheduling and offering strategies considering price uncertainty and risk management. <i>Energy</i> , <b>2012</b> , 37, 237-244	7.9	64
735	Fractional-order control and simulation of wind energy systems with PMSG/full-power converter topology. <i>Energy Conversion and Management</i> , <b>2010</b> , 51, 1250-1258	10.6	64
734	Designing and optimizing a novel advanced adiabatic compressed air energy storage and air source heat pump based Combined Cooling, heating and power system. <i>Energy</i> , <b>2016</b> , 116, 64-77	7.9	64
733	Risk-based stochastic scheduling of energy hub system in the presence of heating network and thermal energy management. <i>Applied Thermal Engineering</i> , <b>2019</b> , 159, 113825	5.8	63
732	Modeling of interactions between market regulations and behavior of plug-in electric vehicle aggregators in a virtual power market environment. <i>Energy</i> , <b>2012</b> , 40, 139-150	7.9	63
731	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> , <b>2019</b> , 10, 659-669	8.2	62
730	. <i>IEEE Transactions on Sustainable Energy</i> , <b>2014</b> , 5, 1036-1047	8.2	62
729	Robust scheduling of thermal, cooling and electrical hub energy system under market price uncertainty. <i>Applied Thermal Engineering</i> , <b>2019</b> , 149, 862-880	5.8	62
728	Co-optimized bidding strategy of an integrated wind-thermal-photovoltaic system in deregulated electricity market under uncertainties. <i>Journal of Cleaner Production</i> , <b>2020</b> , 242, 118434	10.3	62
727	An Innovative Two-Level Model for Electric Vehicle Parking Lots in Distribution Systems With Renewable Energy. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 1506-1520	10.7	61
726	Energy Management Strategy in Dynamic Distribution Network Reconfiguration Considering Renewable Energy Resources and Storage. <i>IEEE Transactions on Sustainable Energy</i> , <b>2020</b> , 11, 662-673	8.2	61
725	. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 3331-3342	4.3	60
724	Assessment of Demand-Response-Driven Load Pattern Elasticity Using a Combined Approach for Smart Households. <i>IEEE Transactions on Industrial Informatics</i> , <b>2016</b> , 12, 1529-1539	11.9	60
723	Effect of Loads and Other Key Factors on Oil-Transformer Ageing: Sustainability Benefits and Challenges. <i>Energies</i> , <b>2015</b> , 8, 12147-12186	3.1	60
722	Hybrid intelligent approach for short-term wind power forecasting in Portugal. <i>IET Renewable Power Generation</i> , <b>2011</b> , 5, 251	2.9	58

721	Model Predictive Control Home Energy Management and Optimization Strategy with Demand Response. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 408	2.6	57
720	Power converter topologies for wind energy conversion systems: Integrated modeling, control strategy and performance simulation. <i>Renewable Energy</i> , <b>2010</b> , 35, 2165-2174	8.1	57
719	Comprehensive Optimization Model for Sizing and Siting of DG Units, EV Charging Stations, and Energy Storage Systems. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 3871-3882	10.7	57
718	Scheduling of head-dependent cascaded hydro systems: Mixed-integer quadratic programming approach. <i>Energy Conversion and Management</i> , <b>2010</b> , 51, 524-530	10.6	56
717	Uncertainty-based electricity procurement by retailer using robust optimization approach in the presence of demand response exchange. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2019</b> , 105, 237-248	5.1	56
716	Optimal performance of CCHP based microgrid considering environmental issue in the presence of real time demand response. <i>Sustainable Cities and Society</i> , <b>2019</b> , 45, 596-606	10.1	56
715	Strategic bidding of virtual power plant in energy markets: A bi-level multi-objective approach. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2019</b> , 113, 208-219	5.1	55
714	Economic and environmental benefits of using textile waste for the production of thermal energy. <i>Journal of Cleaner Production</i> , <b>2018</b> , 171, 1353-1360	10.3	54
713	ANN-based scenario generation methodology for stochastic variables of electric power systems. <i>Electric Power Systems Research</i> , <b>2016</b> , 134, 9-18	3.5	54
712	Operational scheduling of a smart distribution system considering electric vehicles parking lot: A bi-level approach. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2019</b> , 105, 159-178	5.1	54
711	An Artificial Neural Network Approach for Short-Term Wind Power Forecasting in Portugal <b>2009</b> ,		54
710	. <i>IEEE Transactions on Power Systems</i> , <b>2017</b> , 32, 2001-2016	7	53
709	Robust scheduling of variable wind generation by coordination of bulk energy storages and demand response. <i>Energy Conversion and Management</i> , <b>2015</b> , 106, 941-950	10.6	52
708	Electricity price forecast using Combinatorial Neural Network trained by a new stochastic search method. <i>Energy Conversion and Management</i> , <b>2015</b> , 105, 642-654	10.6	52
707	Optimal scheduling of electric vehicles aggregator under market price uncertainty using robust optimization technique. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2020</b> , 117, 105628	5.1	52
706	Compressive Spatio-Temporal Forecasting of Meteorological Quantities and Photovoltaic Power. <i>IEEE Transactions on Sustainable Energy</i> , <b>2016</b> , 7, 1295-1305	8.2	52
705	A control plan for the stable operation of microgrids during grid-connected and islanded modes. <i>Electric Power Systems Research</i> , <b>2015</b> , 129, 10-22	3.5	51
704	Reliability Optimization of Automated Distribution Networks With Probability Customer Interruption Cost Model in the Presence of DG Units. <i>IEEE Transactions on Smart Grid</i> , <b>2017</b> , 8, 305-315	10.7	51

703	Comparative study of power converter topologies and control strategies for the harmonic performance of variable-speed wind turbine generator systems. <i>Energy</i> , <b>2011</b> , 36, 520-529	7.9	51
702	Review of primary voltage and frequency control methods for inverter-based islanded microgrids with distributed generation. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 3225-3235	16.2	51
701	Energy management in microgrids including smart homes: A multi-objective approach. <i>Sustainable Cities and Society</i> , <b>2021</b> , 69, 102852	10.1	50
700	Two-stage stochastic framework for energy hubs planning considering demand response programs. <i>Energy</i> , <b>2020</b> , 206, 118124	7.9	49
699	Optimal bidding strategy of generation station in power market using information gap decision theory (IGDT). <i>Electric Power Systems Research</i> , <b>2013</b> , 96, 56-63	3.5	49
698	Short-term electricity prices forecasting in a competitive market by a hybrid intelligent approach. <i>Energy Conversion and Management</i> , <b>2011</b> , 52, 1061-1065	10.6	49
697	Multi-objective optimization based robust scheduling of electric vehicles aggregator. <i>Sustainable Cities and Society</i> , <b>2019</b> , 47, 101494	10.1	49
696	. <i>IEEE Transactions on Sustainable Energy</i> , <b>2020</b> , 11, 3-14	8.2	49
695	Control technique for enhancing the stable operation of distributed generation units within a microgrid. <i>Energy Conversion and Management</i> , <b>2015</b> , 97, 362-373	10.6	48
694	Operating conditions of lead-acid batteries in the optimization of hybrid energy systems and microgrids. <i>Applied Energy</i> , <b>2016</b> , 179, 590-600	10.7	48
693	Optimised performance of a plug-in electric vehicle aggregator in energy and reserve markets. <i>Energy Conversion and Management</i> , <b>2015</b> , 97, 393-408	10.6	47
692	Fast Decomposed Energy Flow in Large-Scale Integrated Electricity-Gas-Heat Energy Systems. <i>IEEE Transactions on Sustainable Energy</i> , <b>2018</b> , 9, 1565-1577	8.2	47
691	A practical approach for profit-based unit commitment with emission limitations. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2010</b> , 32, 218-224	5.1	47
690	Probabilistic scheduling of power-to-gas storage system in renewable energy hub integrated with demand response program. <i>Journal of Energy Storage</i> , <b>2020</b> , 29, 101393	7.8	47
689	A probabilistic approach to solve the economic dispatch problem with intermittent renewable energy sources. <i>Energy</i> , <b>2015</b> , 82, 949-959	7.9	46
688	Smart distribution system operational scheduling considering electric vehicle parking lot and demand response programs. <i>Electric Power Systems Research</i> , <b>2018</b> , 160, 404-418	3.5	46
687	A risk-averse optimization model for trading wind energy in a market environment under uncertainty. <i>Energy</i> , <b>2011</b> , 36, 4935-4942	7.9	46
686	Grid code reinforcements for deeper renewable generation in insular energy systems. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 53, 163-177	16.2	45



685	A new scenario generation-based method to solve the unit commitment problem with high penetration of renewable energies. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2015</b> , 64, 1063-1072	5.1	45
684	Economic and technical aspects of plug-in electric vehicles in electricity markets. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 53, 1168-1177	16.2	45
683	Optimal sizing and siting of smart microgrid components under high renewables penetration considering demand response. <i>IET Renewable Power Generation</i> , <b>2019</b> , 13, 1809-1822	2.9	45
682	Deriving nonlinear models for incentive-based demand response programs. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2019</b> , 106, 223-231	5.1	45
681	Two alternative robust optimization models for flexible power management of electric vehicles in distribution networks. <i>Energy</i> , <b>2017</b> , 141, 635-651	7.9	44
680	Modelling and sizing of NaS (sodium sulfur) battery energy storage system for extending wind power performance in Crete Island. <i>Energy</i> , <b>2015</b> , 90, 1606-1617	7.9	44
679	Parameterisation effect on the behaviour of a head-dependent hydro chain using a nonlinear model. <i>Electric Power Systems Research</i> , <b>2006</b> , 76, 404-412	3.5	44
678	. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 3857-3870	10.7	44
677	Optimal scheduling of heating and power hubs under economic and environment issues in the presence of peak load management. <i>Energy Conversion and Management</i> , <b>2018</b> , 156, 34-44	10.6	44
676	Wood pellets as a sustainable energy alternative in Portugal. <i>Renewable Energy</i> , <b>2016</b> , 85, 1011-1016	8.1	43
675	Risk-based framework for supplying electricity from renewable generation-owning retailers to price-sensitive customers using information gap decision theory. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2017</b> , 93, 156-170	5.1	43
674	Optimal Operation of Energy Hubs Considering Uncertainties and Different Time Resolutions. <i>IEEE Transactions on Industry Applications</i> , <b>2020</b> , 56, 5543-5552	4.3	43
673	Optimal behavior of responsive residential demand considering hybrid phase change materials. <i>Applied Energy</i> , <b>2016</b> , 163, 81-92	10.7	43
672	. <i>IEEE Transactions on Smart Grid</i> , <b>2017</b> , 8, 316-330	10.7	43
671	A hybrid approach based on IGDTPSO method for optimal bidding strategy of price-taker generation station in day-ahead electricity market. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2015</b> , 69, 335-343	5.1	43
670	Robust optimization of renewable-based multi-energy micro-grid integrated with flexible energy conversion and storage devices. <i>Sustainable Cities and Society</i> , <b>2021</b> , 64, 102532	10.1	43
669	Biomass in the generation of electricity in Portugal: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 71, 373-378	16.2	42
668	A Multifunction Control Strategy for the Stable Operation of DG Units in Smart Grids. <i>IEEE Transactions on Smart Grid</i> , <b>2015</b> , 6, 598-607	10.7	42

667	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> , <b>2019</b> , 7, 433-448 <sup>4</sup>		4 <sup>1</sup>
666	Improved EMD-Based Complex Prediction Model for Wind Power Forecasting. <i>IEEE Transactions on Sustainable Energy</i> , <b>2020</b> , 11, 2790-2802	8.2	4 <sup>1</sup>
665	Optimal operation of electrical and thermal resources in microgrids with energy hubs considering uncertainties. <i>Energy</i> , <b>2019</b> , 187, 115949	7.9	4 <sup>1</sup>
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663	Optimal self-scheduling of home energy management system in the presence of photovoltaic power generation and batteries. <i>Energy</i> , <b>2020</b> , 210, 118568	7.9	4 <sup>1</sup>
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308	Short-Term trading for a photovoltaic power producer in electricity markets <b>2015</b> ,		4

307	Optimal daily operation of a smart-household under dynamic pricing considering thermostatically and non-thermostatically controllable appliances <b>2015</b> ,	4
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265	Smart and energy-efficient home implementation: Wireless communication technologies role <b>2015</b> ,		3
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257	Simulation study of a photovoltaic cell with increasing levels of model complexity <b>2017</b> ,		3
256	Residential MPC controller performance in a household with PV microgeneration <b>2017</b> ,		3
255	Coordinated distribution network reconfiguration and distributed generation allocation via genetic algorithm <b>2017</b> ,		3
254	Smart railway station energy management considering regenerative braking and ESS <b>2017</b> ,		3



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252	Control and stability analysis of interfaced converter in distributed generation technology <b>2015,</b>		3
251	Model predictive control technique for energy optimization in residential appliances <b>2015,</b>		3
250	NaS battery storage system modeling and sizing for extending wind farms performance in Crete <b>2014,</b>		3
249	<b>2014,</b>		3
248	Hybrid neuro-fuzzy evolutionary approach for short-term wind power forecasting <b>2012,</b>		3
247	Operations planning of a hydro producer acting as a price-maker in an electricity market <b>2012,</b>		3
246	Electrical grid integration and power quality studies of a variable-speed wind energy conversion system <b>2009,</b>		3
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216	Selecting the Optimal Signals in Phasor Measurement Unit-based Power System Stabilizer Design <b>2020,</b>		2
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207	Power flow calculations for small distribution networks under time-dependent and uncertain input data <b>2014,</b>		2
206	Application of biomass for the production of energy in the Portuguese textile industry <b>2013,</b>		2
205	A new model to improve the behavior of PIEVs aggregator considering the customers' motivation <b>2013,</b>		2
204	Stochastic mathematical model for high penetration of renewable energy sources in distribution systems <b>2017,</b>		2
203	The value of reserve for plug-in electric vehicle parking lots <b>2017,</b>		2
202	Comparison of two control strategies in an autonomous hybrid microgrid <b>2017,</b>		2
201	Optimal sizing and placement of smart-grid-enabling technologies for maximizing renewable integration <b>2017,</b> 47-81		2
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198	Artificial neural network-based methodology for short-term electric load scenario generation <b>2015</b> ,		2
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196	Impact of electric vehicle V2G operation and demand response strategies for smart households <b>2014</b> ,		2
195	Allocation of PEVs' Parking lots in renewable-based distribution system <b>2014</b> ,		2
194	Intelligent approach for forecasting in power engineering systems <b>2012</b> ,		2
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176	A control technique for operation of single-phase converters in stand-alone operating mode <b>2016</b> ,		2
175	A new dynamic and stochastic distributed generation investment planning model with recourse <b>2016</b> ,		2
174	Dynamic performance control of modular multilevel converters in HVDC transmission systems <b>2016</b> ,		2
173	Torrefied Biomass Pellets: An alternative fuel for coal power plants <b>2016</b> ,		2
172	Economic-Reliability Risk-Constrained Scheduling for Resilient-Microgrids Considering Demand Response Actions <b>2019</b> ,		2
171	The Concept of Large Consumer <b>2019</b> , 1-23		2
170	. <i>IEEE Transactions on Power Systems</i> , <b>2021</b> , 36, 525-528	7	2
169	PMU-Based Power System Stabilizer Design: Optimal Signal Selection and Controller Design. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 1-1	4.3	2
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164	Stability Analysis of a Synchronous Generator-Based Control Technique used in Large-Scale Grid Integration of Renewable Energy <b>2018</b> ,		2

163	Robust Probabilistic Load Flow in Microgrids considering Wind Generation, Photovoltaics and Plug-in Hybrid Electric Vehicles <b>2018</b> ,		2
162	A Multi-Objective Method to Design Demand Response Strategies for Power Systems Including Wind Power Generation <b>2018</b> ,		2
161	A Linear Multi-Objective Operation Model for Smart Distribution Systems Coordinating Tap-Changers, Photovoltaics and Battery Energy Storage <b>2018</b> ,		2
160	A Dijkstra-Inspired Graph Algorithm for Fully Autonomous Tasking in Industrial Applications. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 57, 5448-5460	4.3	2
159	Holistic approach to resilient electrical energy distribution network planning. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2021</b> , 132, 107212	5.1	2
158	Comprehensive survey on support policies and optimal market participation of renewable energy. <i>Electric Power Systems Research</i> , <b>2021</b> , 201, 107522	3.5	2
157	An integrated framework for dynamic capacity withholding assessment considering commitment strategies of generation companies. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2022</b> , 134, 107321	5.1	2
156	A satellite image data based ultra-short-term solar PV power forecasting method considering cloud information from neighboring plant. <i>Energy</i> , <b>2022</b> , 238, 121946	7.9	2
155	Closed loop Aggregated Baseline Load Estimation using Contextual Bandit with Policy Gradient. <i>IEEE Transactions on Smart Grid</i> , <b>2021</b> , 1-1	10.7	2
154	Resiliency-Driven Multi-Step Critical Load Restoration Strategy Integrating On-Call Electric Vehicle Fleet Management Services. <i>IEEE Transactions on Smart Grid</i> , <b>2022</b> , 1-1	10.7	2
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147	Multi-Objective Market Clearing Model with an Autonomous Demand Response Scheme. <i>Energies</i> , <b>2019</b> , 12, 1261	3.1	1
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144	Integration of DG sources for compensation of unbalanced loads in the power grid <b>2015</b> ,		1
143	Evaluation of flexible demand-side load-following reserves in power systems with high wind generation penetration <b>2015</b> ,		1
142	Comparison of battery models for energy storage applications on insular grids <b>2015</b> ,		1
141	Power Quality Improvement with a Pulse Width Modulation Control Method in Modular Multilevel Converters under Varying Nonlinear Loads. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3292	2.6	1
140	A Modified Fireworks Algorithm to Solve the Heat and Power Generation Scheduling Problem in Power System Studies <b>2020</b> , 299-326		1
139	A class of multi-parametric quadratic program with an uncertain objective function. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 138, 106849	4	1
138	EV charging scheduler for overloading prevention of a distribution transformer supplying a factory <b>2016</b> ,		1
137	Characterization of biomass woodchips as fuel for industrial boilers <b>2016</b> ,		1
136	An energy credit based incentive mechanism for the direct load control of residential HVAC systems incorporation in day-ahead planning <b>2017</b> ,		1
135	Optimal demand response scheme for power systems including renewable energy resources considering system reliability and air pollution <b>2017</b> ,		1
134	An integrated simulation platform for assessing the integration of plug-in electric vehicles in electricity markets <b>2017</b> ,		1
133	EV charging effect on a distribution transformer supplying a factory with local PV generation <b>2017</b> ,		1
132	Determining the optimal setting of voltage regulators for day-ahead management of distribution smart systems <b>2017</b> ,		1
131	Hybrid time triggered protocol for home wireless communications <b>2017</b> ,		1
130	A new approach for market power detection in renewable-based electricity markets <b>2017</b> ,		1
129	Managing RES uncertainty and stability issues in distribution systems via energy storage systems and switchable reactive power sources <b>2017</b> ,		1
128	Investigation of smart distribution network response to operation performance of plug-in hybrid electric vehicles <b>2017</b> ,		1

127	Optimal bidding strategy of responsive demands in a new decentralized market-based scheme <b>2017,</b>		1
126	Impacts of stochastic demand response resource scheduling on large scale wind power integration <b>2015,</b>		1
125	Assessment of PEV owners' preferences impact on PEV parking lot transactions <b>2015,</b>		1
124	Now-casting Photovoltaic power with wavelet analysis and Extreme Learning Machines <b>2015,</b>		1
123	An EMD-ANN based prediction methodology for DR driven smart household load demand <b>2015,</b>		1
122	Stable operation of distributed generation units in microgrid networks <b>2015,</b>		1
121	An innovative technique for energy storage system management based on vanadium redox batteries <b>2015,</b>		1
120	DG investment planning analysis with renewable integration and considering emission costs <b>2015,</b>		1
119	A flexible control strategy for integration of DG sources into the power grid <b>2014,</b>		1
118	A probabilistic approach to solve economic dispatch problem in systems with intermittent power sources <b>2014,</b>		1
117	Investigating the effects of flexible load in the grid integration of wind power <b>2014,</b>		1
116	Probability theory-based economic dispatch model for insular power systems <b>2014,</b>		1
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114	Price-maker strategies of a hydro producer in a day-ahead electricity market <b>2012,</b>		1
113	Offshore wind turbines: Simulation of multibody drive train, interaction with fractional-order control and full-power converter <b>2012,</b>		1
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111	Simulation and Experimental Results for a Photovoltaic System Formed by Monocrystalline Solar Modules. <i>International Federation for Information Processing</i> , <b>2012</b> , 329-336		1
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108	Power converter topologies and fractional-order controllers: Wind energy applications <b>2010</b> ,		1
107	Influence of a converter control malfunction on the harmonic behavior of wind turbines with permanent magnet generator <b>2011</b> ,		1
106	Profit-based head-dependent short-term hydro scheduling considering risk constraints <b>2011</b> ,		1
105	Overview of Economic and Environmental Policy Issues Affecting Thermal Power Systems Operational Planning Under Deregulation <b>2006</b> ,		1
104	Operation of a Technical Virtual Power Plant Considering Diverse Distributed Energy Resources. <i>IEEE Transactions on Industry Applications</i> , <b>2022</b> , 1-1	4.3	1
103	Dynamic Distribution System Reconfiguration Considering Distributed Renewable Energy Sources and Energy Storage Systems. <i>IEEE Systems Journal</i> , <b>2022</b> , 1-11	4.3	1
102	Transmission-constrained optimal allocation of price-maker wind-storage units in electricity markets. <i>Applied Energy</i> , <b>2022</b> , 310, 118542	10.7	1
101	Modeling an Improved Demand Response Program in Day-Ahead and Intra-day Markets <b>2020</b> , 93-111		1
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99	Wide-Area Composite Load Parameter Identification Based on Multi-Residual Deep Neural Network.. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , PP,	10.3	1
98	Multi-Carrier Microgrid Operation Model using Stochastic Mixed Integer Linear Programming. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 1-1	11.9	1
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96	Ultra-Short-Term Solar PV Power Forecasting Method Based on Frequency-Domain Decomposition and Deep Learning <b>2020</b> ,		1
95	Analysis Of Contractions In System Graphs: Application To State Estimation <b>2021</b> ,		1
94	Optimal Charge Scheduling of Electric Vehicles in Solar Energy Integrated Power Systems Considering the Uncertainties <b>2020</b> , 73-128		1
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84	Optimal Battery Storage Arbitrage Considering Degradation Cost in Energy Markets <b>2020</b> ,		1
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82	Economic Analysis of Coordinating Electric Vehicle Parking Lots and Home Energy Management Systems <b>2020</b> ,		1
81	Optimisation of Prosumers' Participation in Energy Transactions <b>2020</b> ,		1
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50	Dual-EKF-Based Fault Tolerant Predictive Control of Nonlinear DC Microgrids with Actuator and Sensor Faults. <i>IEEE Transactions on Industry Applications</i> , <b>2022</b> , 1-1	4.3	1
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