Behnam Mohammadi-ivatloo

List of Publications by Year in Descending Order

453 papers	10,088 citations	53 h-index	78 g-index
491 ext. papers	13,232 ext. citations	5.4 avg, IF	7.65 L-index

#	Paper	IF	Citations
453	A Secure Federated Deep Learning-Based Approach for Heating Load Demand Forecasting in Building Environment. *IEEE Access*, **2022**, 10, 5037-5050	3.5	1
452	Modeling hybrid energy systems for marine applications: Hybrid electric ships **2022**, 419-437		0
451	Heating and Cooling Loads Forecasting for Residential Buildings Based on Hybrid Machine Learning Applications: A Comprehensive Review and Comparative Analysis. *IEEE Access*, **2022**, 10, 2196-2215	3.5	6
450	Risk-averse scheduling of virtual power plants considering electric vehicles and demand response **2022**, 227-256		1
449	Emission impacts on virtual power plant scheduling programs **2022**, 359-376		
448	Scenario-based robust energy management of CCHP-based virtual energy hub for participating in multiple energy and reserve markets. *Sustainable Cities and Society*, **2022**, 80, 103711	10.1	2
447	Sustainable Management of the Electrical-Energy□Water□Food Nexus Using Robust Optimization. *Sustainability*, **2022**, 14, 172	3.6	1
446	Multi-energy microgrids: An optimal despatch model for water-energy nexus. *Sustainable Cities and Society*, **2022**, 77, 103573	10.1	3
445	Peer-to-peer decentralized energy trading framework for retailers and prosumers. *Applied Energy*, **2022**, 308, 118310	10.7	13
444	Decision-making framework for power system with RES including responsive demand, ESSs, EV aggregator and dynamic line rating as multiple flexibility resources. *Electric Power Systems Research* , **2022**, 204, 107702	3.5	0
443	Hybrid CNN-LSTM approaches for identification of type and locations of transmission line faults. *International Journal of Electrical Power and Energy Systems*, **2022**, 135, 107563	5.1	7
442	Cyber-Physical Attack Conduction and Detection in Decentralized Power Systems. *IEEE Access*, **2022** , 10, 29277-29286	3.5	0
441	Optimal Scheduling of a Self-Healing Building using Hybrid Stochastic-Robust Optimization Approach. *IEEE Transactions on Industry Applications*, **2022**, 1-1	4.3	0
440	Optimal Coalition Operation of Interconnected Hybrid Energy Systems Containing Local Energy Conversion Technologies, Renewable Energy Resources, and Energy Storage Systems. *Power Systems*, **2022**, 169-198	0.4	
439	Designing a Robust Decentralized Energy Transactions Framework for Active Prosumers in Peer-to-Peer Local Electricity Markets. *IEEE Access*, **2022**, 10, 26743-26755	3.5	4
438	A Critical Review on the Impacts of Energy Storage Systems and Demand-Side Management Strategies in the Economic Operation of Renewable-Based Distribution Network. *Sustainability*, **2022**, 14, 2110	3.6	3
437	L2 regularized deep convolutional neural networks for fire detection. *Journal of Intelligent and Fuzzy Systems*, **2022**, 1-12	1.6	0

436	Toward social equity access and mobile charging stations for electric vehicles: A case study in Los Angeles. *Applied Energy*, **2022**, 311, 118704	10.7	3
435	A novel transactive energy trading model for modernizing energy hubs in the coupled heat and electricity network. *Journal of Cleaner Production*, **2022**, 344, 131024	10.3	9
434	Photovoltaic array reconfiguration under partial shading conditions for maximum power extraction: A state-of-the-art review and new solution method. *Energy Conversion and Management*, **2022**, 258, 115468	10.6	4
433	A comprehensive review on optimization challenges of smart energy hubs under uncertainty factors. *Renewable and Sustainable Energy Reviews*, **2022**, 160, 112320	16.2	2
432	A two-point estimate approach for energy management of multi-carrier energy systems incorporating demand response programs. *Energy*, **2022**, 249, 123671	7.9	1
431	Robust self-scheduling of a virtual multi-energy plant in thermal and electricity markets in the presence of multi-energy flexible technologies. *International Journal of Energy Research*, **2022**, 46, 6225-6245	4.5	0
430	Two-Stage Stochastic Market Clearing of Energy and Reserve in the Presence of Coupled Fuel Cell-Based Hydrogen Storage System with Renewable Resources. *Power Systems*, **2022**, 267-292	0.4	
429	Active Buildings Demand Response: Provision and Aggregation. *Green Energy and Technology*, **2022**, 355-380	0.6	
428	Concept, Definition, Enabling Technologies, and Challenges of Energy Integration in Whole Energy Systems To Create Integrated Energy Systems. *Power Systems*, **2022**, 1-21	0.4	
427	Active Buildings: Concept, Definition, Enabling Technologies, Challenges, and Literature Review. *Green Energy and Technology*, **2022**, 1-24	0.6	
426	Short-term electricity demand forecasting via variational autoencoders and batch training-based bidirectional long short-term memory. *Sustainable Energy Technologies and Assessments*, **2022**, 52, 102209	4.7	0
425	Deep learning-based cyber resilient dynamic line rating forecasting. *International Journal of Electrical Power and Energy Systems*, **2022**, 142, 108257	5.1	0
424	Impact of implementing a price-based demand response program on the system reliability in security-constrained unit commitment problem coupled with wind farms in the presence of contingencies. *Energy*, **2022**, 124333	7.9	1
423	Two-stage Robust Energy Management of a Self-healing Building **2021**,		1
422	Robust Energy-Water Management of a Self-healing Complex Based on System-of-Systems **2021**,		1
421	Optimal Scheduling of Hybrid AC-DC MG using Information Gap Decision Theory **2021**,		1
420	Data-Driven Model-Free Adaptive Control of Z-Source Inverters. *Sensors*, **2021**, 21,	3.8	1
419	Decentralized blockchain-based peer-to-peer energy-backed token trading for active prosumers. *Energy*, **2021**, 122713	7.9	5

418	Data Mining Applications to Fault Diagnosis in Power Electronic Systems: A Systematic Review. *IEEE Transactions on Power Electronics*, **2021**, 1-1	7.2	3
417	Hierarchical Extreme Learning Machine Enabled Dynamic Line Rating Forecasting. *IEEE Systems Journal*, **2021**, 1-11	4.3	2
416	Image Processing Based Approach for False Data Injection Attacks Detection in Power Systems. *IEEE Access*, **2021**, 1-1	3.5	2
415	Application of Machine Learning for Predicting User Preferences in Optimal Scheduling of Smart Appliances. *Power Systems*, **2021**, 345-355	0.4	
414	Introduction to Machine Learning Methods in Energy Engineering. *Power Systems*, **2021**, 61-82	0.4	0
413	LSTM-Assisted Heating Energy Demand Management in Residential Buildings. *Power Systems*, **2021**, 237-248	0.4	
412	Introduction and Literature Review of the Application of Machine Learning/Deep Learning to Load Forecasting in Power System. *Power Systems*, **2021**, 119-135	0.4	0
411	Wind Speed Forecasting Using Innovative Regression Applications of Machine Learning Techniques. *Power Systems*, **2021**, 249-263	0.4	0
410	Energy-efficient dispatch of multiple-chiller systems using hybrid exchange market and genetic algorithm. *Energy and Buildings*, **2021**, 255, 111571	7	1
409	Robust Control of a PMSG-Based Wind Turbine Generator Using Lyapunov Function. *Energies*, **2021**, 14, 1712	3.1	1
408	Cost/comfort-oriented clustering-based extended time of use pricing. *Sustainable Cities and Society* , **2021**, 66, 102673	10.1	0
407	A hybrid robust-stochastic approach for optimal scheduling of interconnected hydrogen-based energy hubs. *IET Smart Grid*, **2021**, 4, 241-254	2.7	5
406	Design and thermodynamic analysis of a novel methanol, hydrogen, and power trigeneration system based on renewable energy and flue gas carbon dioxide. *Energy Conversion and Management*, **2021**, 233, 113922	10.6	7
405	Risk-based optimal operation of coordinated natural gas and reconfigurable electrical networks with integrated energy hubs. *IET Renewable Power Generation*, **2021**, 15, 2657-2673	2.9	4
404	Flexible Continuous-Time Modeling for Multi-Objective Day-Ahead Scheduling of CHP Units. *Sustainability*, **2021**, 13, 5058	3.6	
403	An adaptive real-time energy management system for a renewable energy-based microgrid. *IET Renewable Power Generation*, **2021**, 15, 2918-2930	2.9	4
402	Economic-environmental analysis of combined heat and power-based reconfigurable microgrid integrated with multiple energy storage and demand response program. *Sustainable Cities and Society*, **2021**, 69, 102790	10.1	37
401	Resiliency-oriented optimal scheduling of microgrids in the presence of demand response programs using a hybrid stochastic-robust optimization approach. *International Journal of Electrical Power and Energy Systems*, **2021**, 128, 106723	5.1	21

400	Network-constrained rail transportation and power system scheduling with mobile battery energy storage under a multi-objective two-stage stochastic programming. *International Journal of Energy Research*, **2021**, 45, 18827	4.5	3
399	Provision of Frequency Stability of an Islanded Microgrid Using a Novel Virtual Inertia Control and a Fractional Order Cascade Controller. *Energies*, **2021**, 14, 4152	3.1	2
398	Adaptive Protection of Partially Coupled Transmission Lines. *IEEE Transactions on Power Delivery*, **2021**, 36, 429-440	4.3	2
397	Multiobjective Optimal Power Flow Using a Semidefinite Programming-Based Model. *IEEE Systems Journal*, **2021**, 15, 158-169	4.3	5
396	Short-Term Self-Scheduling of Virtual Energy Hub Plant Within Thermal Energy Market. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 3124-3136	8.9	72
395	Single and multi-objective optimal power flow using a new differential-based harmony search algorithm. *Journal of Ambient Intelligence and Humanized Computing*, **2021**, 12, 851-871	3.7	16
394	Network-Constrained Joint Energy and Flexible Ramping Reserve Market Clearing of Power- and Heat-Based Energy Systems: A Two-Stage Hybrid IGDT/Stochastic Framework. *IEEE Systems Journal* , **2021**, 15, 1547-1556	4.3	23
393	Distributionally Robust Chance-Constrained Transactive Energy Framework for Coupled Electrical and Gas Microgrids. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 347-357	8.9	27
392	Probabilistic Real-Time Dynamic Line Rating Forecasting Based on Dynamic Stochastic General Equilibrium With Stochastic Volatility. *IEEE Transactions on Power Delivery*, **2021**, 36, 1631-1639	4.3	5
391	A Novel Operational Model for Interconnected Microgrids Participation in Transactive Energy Market: A Hybrid IGDT/Stochastic Approach. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 4025-4035	11.9	36
390	Evaluating the effect of electric vehicle parking lots in transmission-constrained AC unit commitment under a hybrid IGDT-stochastic approach. *International Journal of Electrical Power and Energy Systems*, **2021**, 125, 106546	5.1	31
389	Transactive energy management for optimal scheduling of interconnected microgrids with hydrogen energy storage. *International Journal of Hydrogen Energy*, **2021**, 46, 16267-16278	6.7	22
388	A hybrid robust-stochastic approach to evaluate the profit of a multi-energy retailer in tri-layer energy markets. *Energy*, **2021**, 214, 118948	7.9	17
387	Techno-economic and environmental assessment of the coordinated operation of regional grid-connected energy hubs considering high penetration of wind power. *Journal of Cleaner Production*, **2021**, 280, 124275	10.3	19
386	Optimal allocation of static synchronous series compensator (SSSC) in wind-integrated power system considering predictability. *Electric Power Systems Research*, **2021**, 191, 106871	3.5	8
385	Optimal Allocation of Renewable Sources and Energy Storage Systems in Partitioned Power Networks to Create Supply-Sufficient Areas. *IEEE Transactions on Sustainable Energy*, **2021**, 12, 999-1008	8.2	7
384	Techno-economic evaluation of transportable battery energy storage in robust day-ahead scheduling of integrated power and railway transportation networks. *International Journal of Electrical Power and Energy Systems*, **2021**, 126, 106606	5.1	9
383	An improved real-coded genetic algorithm with random walk based mutation for solving combined heat and power economic dispatch. *Journal of Ambient Intelligence and Humanized Computing*, **2021** , 12, 8561-8584	3.7	8

382	Locating Inter-Turn Faults in Transformer Windings Using Isometric Feature Mapping of Frequency Response Traces. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 6962-6970	11.9	15
381	Technical and Theoretical Analysis of the Future Energy Network Modernization from Various Aspects. *Power Systems*, **2021**, 61-116	0.4	
380	A Comprehensive Review on Brushless Doubly-Fed Reluctance Machine. *Sustainability*, **2021**, 13, 842	3.6	5
379	Robust Control Strategies for Microgrids: A Review. *IEEE Systems Journal*, **2021**, 1-12	4.3	13
378	Introduction and Literature Review of the Operation of Multi-carrier Energy Networks. *Power Systems*, **2021**, 39-57	0.4	0
377	Probabilistic Available Transfer Capability Evaluation Considering Dynamic Line Rating Based on a Sequential Game-Theoretic Approach. *IEEE Systems Journal*, **2021**, 1-11	4.3	1
376	Overview of the Grid Modernization and Smart Grids. *Power Systems*, **2021**, 1-31	0.4	0
375	Optimal Scheduling of Hybrid Energy Storage Technologies in the Multi-carrier Energy Networks. *Power Systems*, **2021**, 143-157	0.4	
374	A Decomposition-Based Efficient Method for Short-Term Operation Scheduling of Hydrothermal Problem with Valve-Point Loading Effects. *Power Systems*, **2021**, 159-178	0.4	0
373	Alarms management by supervisory control and data acquisition system for wind turbines. *Eksploatacja I Niezawodnosc*, **2021**, 23, 110-116	3.5	13
372	Energy storage fundamentals and components **2021**, 23-39		1
371	Active Building as an Energy System: Concept, Challenges, and Outlook. *IEEE Access*, **2021**, 1-1	3.5	8
370	Ensemble Learning-based Dynamic Line Rating Forecasting under Cyberattacks. *IEEE Transactions on Power Delivery*, **2021**, 1-1	4.3	9
369	Mathematical Modeling and Uncertainty Management of the Modern Multi-Carrier Energy Networks. *Power Systems*, **2021**, 215-267	0.4	
368	Enhanced PI control and adaptive gain tuning schemes for distributed secondary control of an islanded microgrid. *IET Renewable Power Generation*, **2021**, 15, 854-864	2.9	7
367	Distributed Secondary Control of a Microgrid With A Generalized PI Finite-Time Controller. *IEEE Open Access Journal of Power and Energy*, **2021**, 8, 57-67	3.8	12
366	Design and implementation of an improved power-electronic system for feeding loads of smart homes in remote areas using renewable energy sources. *IET Renewable Power Generation*, **2021**, 15, 1-16	2.9	5
365	Data Management in Modernizing the Future Multi-Carrier Energy Networks. *Power Systems*, **2021**, 117-174	0.4	0

364	An Economic Demand Management Strategy for Passive Consumers Considering Demand-Side Management Schemes and Microgrid Operation. *Power Systems*, **2021**, 179-204	0.4	
363	Optimal Scheduling of Demand Response Aggregators in Industrial Parks Based on Load Disaggregation Algorithm. *IEEE Systems Journal*, **2021**, 1-10	4.3	1
362	Revealing a New Vulnerability of Distributed State Estimation: A Data Integrity Attack and an Unsupervised Detection Algorithm. *IEEE Transactions on Control of Network Systems*, **2021**, 1-1	4	4
361	Evaluating the advantages of electric vehicle parking lots in day-ahead scheduling of wind-based power systems **2021**, 251-263		
360	IGDT-based optimal low-carbon generation dispatch of power system integrated with compressed air energy storage systems **2021**, 89-105		
359	A practical solution based on convolutional neural network for non-intrusive load monitoring. *Journal of Ambient Intelligence and Humanized Computing*, **2021**, 12, 9775-9789	3.7	19
358	Modernizing the Energy from Customer-Side. *Power Systems*, **2021**, 33-60	0.4	0
357	High Impedance Single-Phase Faults Diagnosis in Transmission Lines via Deep Reinforcement Learning of Transfer Functions. *IEEE Access*, **2021**, 9, 15796-15809	3.5	12
356	Assessment of energy storage systems as a reserve provider in stochastic network constrained unit commitment. *IET Smart Grid*, **2021**, 4, 139-150	2.7	3
355	Privacy-preserving mechanism for collaborative operation of high-renewable power systems and industrial energy hubs. *Applied Energy*, **2021**, 283, 116338	10.7	16
354	Interval optimization-based scheduling of interlinked power, gas, heat, and hydrogen systems. *IET Renewable Power Generation*, **2021**, 15, 1214-1226	2.9	7
353	Chance-constrained scheduling of hybrid microgrids under transactive energy control. *International Journal of Energy Research*, **2021**, 45, 10173-10190	4.5	17
352	Deep Learning-Assisted Short-Term Load Forecasting for Sustainable Management of Energy in Microgrid. *Inventions*, **2021**, 6, 15	2.9	12
351	Optimal stochastic scheduling of reconfigurable active distribution networks hosting hybrid renewable energy systems. *IET Smart Grid*, **2021**, 4, 297-306	2.7	0
350	Transactive energy framework for optimal energy management of multi-carrier energy hubs under local electrical, thermal, and cooling market constraints. *International Journal of Electrical Power and Energy Systems*, **2021**, 129, 106803	5.1	15
349	Economic-Emission Dispatch Problem in Power Systems With Carbon Capture Power Plants. *IEEE Transactions on Industry Applications*, **2021**, 57, 3341-3351	4.3	9
348	Thermodynamic modeling of compressed air energy storage for energy and reserve markets. *Applied Thermal Engineering*, **2021**, 193, 116948	5.8	12
347	Design, evaluation, and optimization of an efficient solar-based multi-generation system with an energy storage option for Iran summer peak demand. *Energy Conversion and Management*, **2021**, 242, 114324	10.6	6

346	Economic-environmental stochastic scheduling for hydrogen storage-based smart energy hub coordinated with integrated demand response program. *International Journal of Energy Research*, **2021**, 45, 20232	4.5	6
345	Optimization of a tidal-battery-diesel driven energy-efficient standalone microgrid considering the load-curve flattening program. *International Transactions on Electrical Energy Systems*, **2021**, 31, e12993	2.2	2
344	Strategic planning of power to gas energy storage facilities in electricity market. *Sustainable Energy Technologies and Assessments*, **2021**, 46, 101238	4.7	1
343	Optimal Techno-Economic Planning of a Smart Parking Lot Combined Heat, Hydrogen, and Power (SPL-CHHP)-Based Microgrid in the Active Distribution Network. *Applied Sciences (Switzerland)*, **2021**, 11, 8043	2.6	2
342	A comprehensive review on energy saving options and saving potential in low voltage electricity distribution networks: Building and public lighting. *Sustainable Cities and Society*, **2021**, 72, 103064	10.1	12
341	Novel Hybrid Stochastic-Robust Optimal Trading Strategy for a Demand Response Aggregator in the Wholesale Electricity Market. *IEEE Transactions on Industry Applications*, **2021**, 57, 5488-5498	4.3	4
340	Malaysia scenario of biomass supply chain-cogeneration system and optimization modeling development: A review. *Renewable and Sustainable Energy Reviews*, **2021**, 148, 111289	16.2	6
339	A novel prime numbers-based PV array reconfiguration solution to produce maximum energy under partial shade conditions. *Sustainable Energy Technologies and Assessments*, **2021**, 47, 101498	4.7	11
338	A hybrid robust-stochastic optimization framework for optimal energy management of electric vehicles parking lots. *Sustainable Energy Technologies and Assessments*, **2021**, 47, 101467	4.7	4
337	Strategic Operation of a Virtual Energy Hub With the Provision of Advanced Ancillary Services in Industrial Parks. *IEEE Transactions on Sustainable Energy*, **2021**, 12, 2062-2073	8.2	14
336	Forecasting stock price by hybrid model of cascading Multivariate Adaptive Regression Splines and Deep Neural Network. *Computers and Electrical Engineering*, **2021**, 95, 107405	4.3	5
335	Robust network-constrained energy management of a multiple energy distribution company in the presence of multi-energy conversion and storage technologies. *Sustainable Cities and Society*, **2021**, 74, 103147	10.1	11
334	Multi-objective IGDT-based scheduling of low-carbon multi-energy microgrids integrated with hydrogen refueling stations and electric vehicle parking lots. *Sustainable Cities and Society*, **2021**, 74, 103197	10.1	18
333	Value of regional constraint management services of vector-bridging systems in a heavily constrained network. *Applied Energy*, **2021**, 301, 117421	10.7	3
332	Fault detection diagnostic for HVAC systems via deep learning algorithms. *Energy and Buildings*, **2021**, 250, 111275	7	14
331	Risk-averse maintenance scheduling of generation units in combined heat and power systems with demand response. *Reliability Engineering and System Safety*, **2021**, 216, 107960	6.3	0
330	Enhanced real-time scheduling algorithm for energy management in a renewable-integrated microgrid. *Applied Energy*, **2021**, 304, 117658	10.7	3
329	Robust decentralized optimization of Multi-Microgrids integrated with Power-to-X technologies. *Applied Energy*, **2021**, 304, 117635	10.7	23

328	Economic analysis of energy storage systems in multicarrier microgrids **2021**, 173-190		2
327	Energy Trading Possibilities in the Modern Multi-Carrier Energy Networks. *Power Systems*, **2021**, 175-214	0.4	1
326	Optimal energy scheduling of a solar-based hybrid ship considering cold-ironing facilities. *IET Renewable Power Generation*, **2021**, 15, 532-547	2.9	4
325	Economic dispatch of large-scale integrated heat and power systems by application of a novel harmony search approach **2021**, 279-296		
324	Hybrid Stochastic/Robust Offering Strategy for Coordinated Wind Power and Compressed Air Energy Storage in Multielectricity Markets. *IEEE Systems Journal*, **2021**, 1-8	4.3	9
323	Optimal participation of electric vehicles aggregator in energy and flexible ramping markets **2021**, 217-233		0
322	Turn-to-Turn Short Circuit Fault Localization in Transformer Winding via Image Processing and Deep Learning Method. *IEEE Transactions on Industrial Informatics*, **2021**, 1-1	11.9	5
321	Application of Internet of Things (IoT) to Demand-Side Management in Smart Grids. *Profiles in Operations Research*, **2021**, 169-183	1	0
320	Robust Optimal Operation Strategy for a Hybrid Energy System Based on Gas-Fired Unit, Power-to-Gas Facility and Wind Power in Energy Markets. *Energies*, **2020**, 13, 6131	3.1	11
319	Food, Energy and Water Nexus: A Brief Review of Definitions, Research, and Challenges. *Inventions*, **2020**, 5, 56	2.9	7
318	Multi-objective optimization of energy and water management in networked hubs considering transactive energy. *Journal of Cleaner Production*, **2020**, 266, 121936	10.3	26
317	Improving Residential Load Disaggregation for Sustainable Development of Energy via Principal Component Analysis. *Sustainability*, **2020**, 12, 3158	3.6	33
316	Evaluating the impact of multi-carrier energy storage systems in optimal operation of integrated electricity, gas and district heating networks. *Applied Thermal Engineering*, **2020**, 176, 115413	5.8	56
315	Probabilistic Small Signal Stability Evaluation of Power Systems with High Penetration of Wind Farms. *Computers and Electrical Engineering*, **2020**, 85, 106683	4.3	2
314	Robust scheduling of hydrogen based smart micro energy hub with integrated demand response. *Journal of Cleaner Production*, **2020**, 267, 122041	10.3	76
313	Practical implementation of residential load management system by considering vehicle-for-power transfer: Profit analysis. *Sustainable Cities and Society*, **2020**, 60, 102144	10.1	8
312	Sustainable Energy System Planning for an Industrial Zone by Integrating Electric Vehicles as Energy Storage. *Journal of Energy Storage*, **2020**, 30, 101553	7.8	19
311	Chance-constrained models for transactive energy management of interconnected microgrid clusters. *Journal of Cleaner Production*, **2020**, 271, 122177	10.3	39

310	Reliability Dynamic Analysis by Fault Trees and Binary Decision Diagrams. *Information (Switzerland)*, **2020**, 11, 324	2.6	27
309	Optimal stochastic bilevel scheduling of pumped hydro storage systems in a pay-as-bid energy market environment. *Journal of Energy Storage*, **2020**, 31, 101608	7.8	9
308	Integrated transmission expansion and PMU planning considering dynamic thermal rating in uncertain environment. *IET Generation, Transmission and Distribution*, **2020**, 14, 1973-1984	2.5	3
307	Performance Evaluation of Two Machine Learning Techniques in Heating and Cooling Loads Forecasting of Residential Buildings. *Applied Sciences (Switzerland)*, **2020**, 10, 3829	2.6	35
306	Optimal operation of multi-carrier energy networks with gas, power, heating, and water energy sources considering different energy storage technologies. *Journal of Energy Storage*, **2020**, 31, 101574	7.8	19
305	Ensuring cybersecurity of smart grid against data integrity attacks under concept drift. *International Journal of Electrical Power and Energy Systems*, **2020**, 119, 105947	5.1	29
304	A Novel Hybrid Framework for Co-Optimization of Power and Natural Gas Networks Integrated With Emerging Technologies. *IEEE Systems Journal*, **2020**, 14, 3598-3608	4.3	41
303	Real-time energy management in a microgrid with renewable generation, energy storages, flexible loads and combined heat and power units using Lyapunov optimisation. *IET Renewable Power Generation*, **2020**, 14, 526-538	2.9	13
302	Smart home energy management using hybrid robust-stochastic optimization. *Computers and Industrial Engineering*, **2020**, 143, 106425	6.4	37
301	An Integrated Planning Framework for Sustainable Water and Energy Supply. *Sustainability*, **2020**, 12, 4295	3.6	12
300	Optimal Operation of Multi-Carrier Energy Networks Considering Uncertain Parameters and Thermal Energy Storage. *Sustainability*, **2020**, 12, 5158	3.6	15
299	Stochastic Operation of a Solar-Powered Smart Home: Capturing Thermal Load Uncertainties. *Sustainability*, **2020**, 12, 5089	3.6	8
298	Generation Units Maintenance in Combined Heat and Power Integrated Systems Using the Mixed Integer Quadratic Programming Approach. *Energies*, **2020**, 13, 2840	3.1	24
297	Two-Stage Robust-Stochastic Electricity Market Clearing Considering Mobile Energy Storage in Rail Transportation. *IEEE Access*, **2020**, 8, 121780-121794	3.5	19
296	Residential Household Non-Intrusive Load Monitoring via Smart Event-based Optimization. *IEEE Transactions on Consumer Electronics*, **2020**, 66, 233-241	4.8	14
295	A hybrid genetic particle swarm optimization for distributed generation allocation in power distribution networks. *Energy*, **2020**, 209, 118218	7.9	33
294	Techno-economic evaluation of PEVs energy storage capability in wind distributed generations planning. *Sustainable Cities and Society*, **2020**, 56, 102117	10.1	7
293	Day-ahead profit-based reconfigurable microgrid scheduling considering uncertain renewable generation and load demand in the presence of energy storage. *Journal of Energy Storage*, **2020**, 28, 101161	7.8	28

292	. *IEEE Access*, **2020**, 8, 38892-38906	3.5	33
291	A solar dish Stirling engine combined humidification-dehumidification desalination cycle for cleaner production of cool, pure water, and power in hot and humid regions. *Sustainable Energy Technologies and Assessments*, **2020**, 37, 100642	4.7	14
290	Two-Stage Robust Stochastic Model Scheduling for Transactive Energy Based Renewable Microgrids. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 6857-6867	11.9	41
289	Optimal placement of multi-period-based switched capacitor in radial distribution systems. *Computers and Electrical Engineering*, **2020**, 82, 106549	4.3	13
288	Flexible scheduling of reconfigurable microgrid-based distribution networks considering demand response program. *Energy*, **2020**, 196, 117024	7.9	35
287	Energy efficient hourly scheduling of multi-chiller systems using imperialistic competitive algorithm. *Computers and Electrical Engineering*, **2020**, 82, 106550	4.3	13
286	Optimal Chance-Constrained Scheduling of Reconfigurable Microgrids Considering Islanding Operation Constraints. *IEEE Systems Journal*, **2020**, 14, 5340-5349	4.3	45
285	A Review on Plug-in Electric Vehicles: Introduction, Current Status, and Load Modeling Techniques. *Journal of Modern Power Systems and Clean Energy*, **2020**, 8, 412-425	4	43
284	Dynamic and multi-objective reconfiguration of distribution network using a novel hybrid algorithm with parallel processing capability. *Applied Soft Computing Journal*, **2020**, 90, 106146	7.5	26
283	Security Interactions of Food, Water, and Energy Systems: A Stochastic Modeling **2020**, 305-321		1
282	A novel economic structure to improve the energy label in smart residential buildings under energy efficiency programs. *Journal of Cleaner Production*, **2020**, 260, 121059	10.3	16
281	Goal Programming Application for Contract Pricing of Electric Vehicle Aggregator in Join Day-Ahead Market. *Energies*, **2020**, 13, 1771	3.1	7
280	Stochastic Multi-objective Low-Carbon Generation Dispatch Considering Carbon Capture Plants **2020**,		1
279	A Stochastic Transactive Energy Model for Optimal Dispatch of Integrated Low-Carbon Energy Hubs in the Incorporated Electricity and Gas Networks **2020**,		1
278	Support Vector Machine-Assisted Improvement Residential Load Disaggregation **2020**,		6
277	Integration of Renewable Energy Sources Into the Power Grid Through PowerFactory. *Power Systems*, **2020**,	0.4	2
276	Electrical Challenges Associated with Integrating Renewable Energy Sources into Power Grids. *Power Systems*, **2020**, 105-130	0.4	
275	Concept and Glossary of Demand Response Programs **2020**, 1-20		0

274	Proposing a linear model of energy hub operation using information gap decision theory. *Kiyfiyyat Va Bahrah/var□i san at-i Barq-i □□*, **2020**, 8, 59-67	0	
273	Combined Heat and Power Economic Dispatch Using Particle Swarm Optimization. *Studies in Systems, Decision and Control*, **2020**, 127-141	0.8	
272	Introducing Basic Tools in DIgSILENT PoweFactory. *Power Systems*, **2020**, 21-49	0.4	
271	Reliability Assessment in the Presence of Renewable Energy Sources. *Power Systems*, **2020**, 131-155	0.4	
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