Amjad Anvari-Moghaddam

List of Publications by Year
in descending order

240 papers	7,092 citations	53794 45 h-index	88630 70 g-index
242 all docs	242 docs citations	242 times ranked	4647 citing authors

#	Article	IF	Citations
1	Multi-objective operation management of a renewable MG (micro-grid) with back-up micro-turbine/fuel cell/battery hybrid power source. Energy, 2011, 36, 6490-6507.	8.8	479
2	Optimal Smart Home Energy Management Considering Energy Saving and a Comfortable Lifestyle. IEEE Transactions on Smart Grid, 2015, 6, 324-332.	9.0	415
3	A multi-agent based energy management solution for integrated buildings and microgrid system. Applied Energy, 2017, 203, 41-56.	10.1	226
4	Multi-operation management of a typical micro-grids using Particle Swarm Optimization: A comparative study. Renewable and Sustainable Energy Reviews, 2012, 16, 1268-1281.	16.4	149
5	A hierarchical energy management strategy for interconnected microgrids considering uncertainty. International Journal of Electrical Power and Energy Systems, 2019, 109, 597-608.	5.5	121
6	Coordinated wind-thermal-energy storage offering strategy in energy and spinning reserve markets using a multi-stage model. Applied Energy, 2020, 259, 114168.	10.1	102
7	Efficient energy management for a grid‐tied residential microgrid. IET Generation, Transmission and Distribution, 2017, 11, 2752-2761.	2.5	96
8	Cost-effective and comfort-aware residential energy management under different pricing schemes and weather conditions. Energy and Buildings, 2015, 86, 782-793.	6.7	95
9	Co-optimized bidding strategy of an integrated wind-thermal-photovoltaic system in deregulated electricity marketÂunder uncertainties. Journal of Cleaner Production, 2020, 242, 118434.	9.3	93
10	Robust decentralized optimization of Multi-Microgrids integrated with Power-to-X technologies. Applied Energy, 2021, 304, 117635.	10.1	91
11	Optimal robust operation of combined heat and power systems with demand response programs. Applied Thermal Engineering, 2019, 149, 1359-1369.	6.0	90
12	Optimal Operation of Energy Hubs Considering Uncertainties and Different Time Resolutions. IEEE Transactions on Industry Applications, 2020, 56, 5543-5552.	4.9	85
13	A cost-effective and emission-aware power management system for ships with integrated full electric propulsion. Electric Power Systems Research, 2017, 150, 63-75.	3.6	79
14	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.	6.0	79
15	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.	11.3	78
16	Evaluation of reliability in risk‐constrained scheduling of autonomous microgrids with demand response and renewable resources. IET Renewable Power Generation, 2018, 12, 657-667.	3.1	69
17	A hover view over effectual approaches on pandemic management for sustainable cities â€" The endowment of prospective technologies with revitalization strategies. Sustainable Cities and Society, 2021, 68, 102789.	10.4	69
18	Chance-constrained models for transactive energy management of interconnected microgrid clusters. Journal of Cleaner Production, 2020, 271, 122177.	9.3	68

#	Article	IF	Citations
19	Internet of Things for Modern Energy Systems: State-of-the-Art, Challenges, and Open Issues. Energies, 2018, 11, 1252.	3.1	67
20	Optimal Operation Scheduling of a Microgrid Incorporating Battery Swapping Stations. IEEE Transactions on Power Systems, 2019, 34, 5063-5072.	6.5	67
21	A decentralized robust model for optimal operation of distribution companies with private microgrids. International Journal of Electrical Power and Energy Systems, 2019, 106, 105-123.	5.5	67
22	Performance Evaluation of Two Machine Learning Techniques in Heating and Cooling Loads Forecasting of Residential Buildings. Applied Sciences (Switzerland), 2020, 10, 3829.	2.5	67
23	Stochastic security and risk‐constrained scheduling for an autonomous microgrid with demand response and renewable energy resources. IET Renewable Power Generation, 2017, 11, 1812-1821.	3.1	66
24	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.	10.4	65
25	Optimal simultaneous day-ahead scheduling and hourly reconfiguration of distribution systems considering responsive loads. International Journal of Electrical Power and Energy Systems, 2019, 104, 537-548.	5.5	63
26	A novel hybrid two-stage framework for flexible bidding strategy of reconfigurable micro-grid in day-ahead and real-time markets. International Journal of Electrical Power and Energy Systems, 2020, 123, 106293.	5.5	63
27	Thermodynamic and sustainability analysis of a municipal waste-driven combined cooling, heating and power (CCHP) plant. Energy Conversion and Management, 2019, 201, 112158.	9.2	62
28	Small-scale CCHP systems for waste heat recovery from cement plants: Thermodynamic, sustainability and economic implications. Energy, 2020, 192, 116634.	8.8	62
29	Stochastic Risk-Constrained Scheduling of Renewable-Powered Autonomous Microgrids With Demand Response Actions: Reliability and Economic Implications. IEEE Transactions on Industry Applications, 2020, 56, 1882-1895.	4.9	61
30	Risk-constrained self-scheduling of a hybrid power plant considering interval-based intraday demand response exchange market prices. Journal of Cleaner Production, 2021, 282, 125344.	9.3	61
31	Risk-averse probabilistic framework for scheduling of virtual power plants considering demand response and uncertainties. International Journal of Electrical Power and Energy Systems, 2020, 121, 106126.	5.5	61
32	Optimal Chance-Constrained Scheduling of Reconfigurable Microgrids Considering Islanding Operation Constraints. IEEE Systems Journal, 2020, 14, 5340-5349.	4.6	60
33	Study of forecasting renewable energies in smart grids using linear predictive filters and neural networks. IET Renewable Power Generation, 2011, 5, 470.	3.1	59
34	Geothermal driven micro-CCHP for domestic application â€" Exergy, economic and sustainability analysis. Energy, 2020, 207, 118195.	8.8	59
35	A Hierarchical Game Theoretical Approach for Energy Management of Electric Vehicles and Charging Stations in Smart Grids. IEEE Access, 2018, 6, 67223-67234.	4.2	57
36	Resilience improvement planning of power-water distribution systems with multiple microgrids against hurricanes using clean strategies. Journal of Cleaner Production, 2019, 223, 109-126.	9.3	56

#	Article	IF	Citations
37	Stochastic Predictive Control of Multi-Microgrid Systems. IEEE Transactions on Industry Applications, 2019, 55, 5311-5319.	4.9	55
38	A Novel Hybrid Framework for Co-Optimization of Power and Natural Gas Networks Integrated With Emerging Technologies. IEEE Systems Journal, 2020, 14, 3598-3608.	4.6	53
39	Optimal Behavior of a Hybrid Power Producer in Day-Ahead and Intraday Markets: A Bi-Objective CVaR-Based Approach. IEEE Transactions on Sustainable Energy, 2021, 12, 931-943.	8.8	52
40	An efficient interactive framework for improving resilience of power-water distribution systems with multiple privately-owned microgrids. International Journal of Electrical Power and Energy Systems, 2020, 116, 105550.	5.5	51
41	Economic demand response model in liberalised electricity markets with respect to flexibility of consumers. IET Generation, Transmission and Distribution, 2017, 11, 4291-4298.	2.5	49
42	Study of the Effect of Time-Based Rate Demand Response Programs on Stochastic Day-Ahead Energy and Reserve Scheduling in Islanded Residential Microgrids. Applied Sciences (Switzerland), 2017, 7, 378.	2.5	49
43	Two-Stage Robust Optimization for Resilient Operation of Microgrids Considering Hierarchical Frequency Control Structure. IEEE Transactions on Industrial Electronics, 2020, 67, 9439-9449.	7.9	49
44	A bi-level model for strategic bidding of a price-maker retailer with flexible demands in day-ahead electricity market. International Journal of Electrical Power and Energy Systems, 2020, 121, 106065.	5.5	49
45	A New Layered Architecture for Future Big Data-Driven Smart Homes. IEEE Access, 2019, 7, 19002-19012.	4.2	48
46	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.	8.1	46
47	Stochastic expansion planning of gas and electricity networks: A decentralized-based approach. Energy, 2019, 186, 115889.	8.8	45
48	Optimal energy management of a micro-grid with renewable energy resources and demand response. Journal of Renewable and Sustainable Energy, 2013, 5, 053148.	2.0	44
49	Coordination of EVs Participation for Load Frequency Control in Isolated Microgrids. Applied Sciences (Switzerland), 2017, 7, 539.	2.5	44
50	Improving Residential Load Disaggregation for Sustainable Development of Energy via Principal Component Analysis. Sustainability, 2020, 12, 3158.	3.2	44
51	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.	10.4	44
52	Risk-based probabilistic-possibilistic self-scheduling considering high-impact low-probability events uncertainty. International Journal of Electrical Power and Energy Systems, 2019, 110, 598-612.	5.5	43
53	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.	8.8	43
54	A practical solution based on convolutional neural network for non-intrusive load monitoring. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 9775-9789.	4.9	42

#	Article	IF	Citations
55	Stochastic Predictive Energy Management of Multi-Microgrid Systems. Applied Sciences (Switzerland), 2020, 10, 4833.	2.5	41
56	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.	9.3	41
57	Day-Ahead and Intraday Dispatch of an Integrated Biomass-Concentrated Solar System: A Multi-Objective Risk-Controlling Approach. IEEE Transactions on Power Systems, 2022, 37, 701-714.	6.5	41
58	A Stochastic Bi-Level Scheduling Approach for the Participation of EV Aggregators in Competitive Electricity Markets. Applied Sciences (Switzerland), 2017, 7, 1100.	2.5	39
59	Application of CCHPs in a centralized domestic heating, cooling and power network—Thermodynamic and economic implications. Sustainable Cities and Society, 2020, 60, 102151.	10.4	39
60	Optimal probabilistic planning of passive harmonic filters in distribution networks with high penetration of photovoltaic generation. International Journal of Electrical Power and Energy Systems, 2019, 110, 332-348.	5.5	38
61	Optimal Operation of Integrated Electrical and Natural Gas Networks with a Focus on Distributed Energy Hub Systems. Sustainability, 2020, 12, 8320.	3.2	37
62	Dynamic Assessment of COTS Converters-Based DC Integrated Power Systems in Electric Ships. IEEE Transactions on Industrial Informatics, 2018, 14, 5518-5529.	11.3	36
63	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.	4.6	35
64	Integrated Management of Energy, Wellbeing and Health in the Next Generation of Smart Homes. Sensors, 2019, 19, 481.	3.8	34
65	Stochastic electrical and thermal energy management of energy hubs integrated with demand response programs and renewable energy: A prioritized multi-objective framework. Electric Power Systems Research, 2021, 196, 107183.	3.6	34
66	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.	10.4	34
67	Risk-Based Stochastic Scheduling of Resilient Microgrids Considering Demand Response Programs. IEEE Systems Journal, 2021, 15, 971-980.	4.6	33
68	<scp>Chance–constrained</scp> scheduling of hybrid microgrids under transactive energy control. International Journal of Energy Research, 2021, 45, 10173-10190.	4.5	33
69	Machine learning-based utilization of renewable power curtailments under uncertainty by planning of hydrogen systems and battery storages. Journal of Energy Storage, 2021, 41, 103010.	8.1	33
70	Optimal risk-constrained stochastic scheduling of microgrids with hydrogen vehicles in real-time and day-ahead markets. Journal of Cleaner Production, 2021, 318, 128452.	9.3	33
71	Risk-involved optimal operating strategy of a hybrid power generation company: A mixed interval-CVaR model. Energy, 2021, 232, 120975.	8.8	33
72	Security-constrained unit commitment in AC microgrids considering stochastic price-based demand response and renewable generation. International Transactions on Electrical Energy Systems, 2018, 28, e2596.	1.9	32

#	Article	IF	Citations
73	Risk-involved participation of electric vehicle aggregator in energy markets with robust decision-making approach. Journal of Cleaner Production, 2019, 239, 118076.	9.3	32
74	Smart home energy management system â€“ a review. Advances in Building Energy Research, 2022, 16, 118-143.	2.3	32
75	Privacy-preserving mechanism for collaborative operation of high-renewable power systems and industrial energy hubs. Applied Energy, 2021, 283, 116338.	10.1	31
76	Optimal planning and operation management of a ship electrical power system with energy storage system. , 2016, , .		30
77	Using smart meters data for energy management operations and power quality monitoring in a microgrid. , 2017, , .		30
78	A New Robust Control Strategy for Parallel Operated Inverters in Green Energy Applications. Energies, 2020, 13, 3480.	3.1	30
79	Real-time Energy Management System for a hybrid AC/DC residential microgrid. , 2017, , .		29
80	Optimal Operational Scheduling of Reconfigurable Multi-Microgrids Considering Energy Storage Systems. Energies, 2019, 12, 1766.	3.1	29
81	Multi-objective Stochastic Planning of Electric Vehicle Charging Stations in Unbalanced Distribution Networks Supported by Smart Photovoltaic Inverters. Sustainable Cities and Society, 2022, 84, 104029.	10.4	29
82	Optimal Decision-Making Strategy of an Electric Vehicle Aggregator in Short-Term Electricity Markets. Energies, 2018, 11, 2413.	3.1	28
83	A comprehensive review on applications of multicriteria decisionâ€making methods in power and energy systems. International Journal of Energy Research, 2022, 46, 4088-4118.	4.5	28
84	Optimal sizing of a lithium battery energy storage system for grid-connected photovoltaic systems. , 2017, , .		27
85	A hybrid robust-stochastic approach to evaluate the profit of a multi-energy retailer in tri-layer energy markets. Energy, 2021, 214, 118948.	8.8	27
86	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.	9.2	27
87	Smart Shipboard Power System Operation and Management. Inventions, 2016, 1, 22.	2.5	26
88	Distributed parallel cooperative coevolutionary multi-objective large-scale immune algorithm for deployment of wireless sensor networks. Future Generation Computer Systems, 2018, 82, 256-267.	7.5	26
89	A stochastic biâ€level decisionâ€making framework for a loadâ€serving entity in dayâ€ahead and balancing markets. International Transactions on Electrical Energy Systems, 2019, 29, e12109.	1.9	26
90	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.	4.2	26

#	Article	IF	Citations
91	Optimal scheduling of a multi-carrier energy hub supplemented by battery energy storage systems. , 2017, , .		25
92	Optimal operation management of a regional network of microgrids based on chanceâ€constrained model predictive control. IET Generation, Transmission and Distribution, 2018, 12, 3772-3779.	2.5	25
93	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	25
94	Multi-Residential Activity Labelling in Smart Homes with Wearable Tags Using BLE Technology. Sensors, 2018, 18, 908.	3.8	24
95	4E Analyses of a Hybrid Waste-Driven CHPâ€"ORC Plant with Flue Gas Condensation. Sustainability, 2020, 12, 9449.	3.2	24
96	Optimal utilization of microgrids supplemented with battery energy storage systems in grid support applications. , 2015, , .		23
97	Optimal Design of a Wide Area Measurement System for Improvement of Power Network Monitoring Using a Dynamic Multiobjective Shortest Path Algorithm. IEEE Systems Journal, 2017, 11, 2303-2314.	4.6	23
98	An optimal market-oriented demand response model for price-responsive residential consumers. Energy Efficiency, 2019, 12, 803-815.	2.8	23
99	A security-based observability method for optimal PMU-sensor placement in WAMS. International Journal of Electrical Power and Energy Systems, 2020, 121, 106157.	5.5	23
100	A Multi-Attribute Expansion Planning Model for Integrated Gasâ€"Electricity System. Energies, 2018, 11, 2573.	3.1	22
101	A game theoretical approach for sub-transmission and generation expansion planning utilizing multi-regional energy systems. International Journal of Electrical Power and Energy Systems, 2020, 118, 105758.	5.5	22
102	Network hardening and optimal placement of microgrids to improve transmission system resilience: A two-stage linear program. Reliability Engineering and System Safety, 2022, 224, 108536.	8.9	22
103	Demand Side Management Using the Internet of Energy Based on Fog and Cloud Computing. , 2017, , .		21
104	A Stochastic Model Predictive Control Approach for Joint Operational Scheduling and Hourly Reconfiguration of Distribution Systems. Energies, 2018, 11, 1884.	3.1	21
105	Co-optimal PMU and communication system placement using hybrid wireless sensors. Sustainable Energy, Grids and Networks, 2019, 19, 100238.	3.9	21
106	Optimized energy management of a single-house residential micro-grid with automated demand response. , 2015, , .		20
107	Optimal Operational Scheduling of Reconfigurable Microgrids in Presence of Renewable Energy Sources. Energies, 2019, 12, 1858.	3.1	20
108	A Deep Neural Network-Assisted Approach to Enhance Short-Term Optimal Operational Scheduling of a Microgrid. Sustainability, 2020, 12, 1653.	3.2	20

#	Article	IF	Citations
109	Short-term reliability and economic evaluation of resilient microgrids under incentive-based demand response programs. International Journal of Electrical Power and Energy Systems, 2022, 138, 107918.	5.5	20
110	District heating and electricity production based on biogas produced from municipal WWTPs in Turkey: A comprehensive case study. Energy, 2021, 223, 119904.	8.8	19
111	Thermodynamic, Economic, and Environmental Analyses of a Waste-Fired Trigeneration Plant. Energies, 2020, 13, 2476.	3.1	19
112	Multi-energy microgrids: An optimal despatch model for water-energy nexus. Sustainable Cities and Society, 2022, 77, 103573.	10.4	19
113	Retail market equilibrium and interactions among reconfigurable networked microgrids. Sustainable Cities and Society, 2019, 49, 101628.	10.4	18
114	A Multi-Market-Driven Approach to Energy Scheduling of Smart Microgrids in Distribution Networks. Sustainability, 2019, 11, 301.	3.2	18
115	Energy management strategy for a short-route hybrid cruise ship: an IGDT-based approach. IET Renewable Power Generation, 2020, 14, 1755-1763.	3.1	18
116	A hybrid robust-stochastic approach for optimal scheduling of interconnected hydrogen-based energy hubs. IET Smart Grid, 2021, 4, 241-254.	2.2	18
117	An Innovative Coalitional Trading Model for a Biomass Power Plant Paired With Green Energy Resources. IEEE Transactions on Sustainable Energy, 2022, 13, 892-904.	8.8	18
118	A Secure Federated Deep Learning-Based Approach for Heating Load Demand Forecasting in Building Environment. IEEE Access, 2022, 10, 5037-5050.	4.2	18
119	Optimal scheduling of distributed energy resources and responsive loads in islanded microgrids considering voltage and frequency security constraints. Journal of Renewable and Sustainable Energy, 2018, 10, .	2.0	17
120	A Transactive Energy Management Framework for Regional Network of Microgrids. , 2019, , .		17
121	Stochastic risk-constrained decision-making approach for a retailer in a competitive environment with flexible demand side resources. International Transactions on Electrical Energy Systems, 2019, 29, e2719.	1.9	17
122	Space cooling using geothermal single-effect water/lithium bromide absorption chiller. Energy Science and Engineering, 2021, 9, 1747-1760.	4.0	17
123	Resource Offload Consolidation Based on Deep-Reinforcement Learning Approach in Cyber-Physical Systems. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 245-254.	4.9	17
124	Data Mining Applications to Fault Diagnosis in Power Electronic Systems: A Systematic Review. IEEE Transactions on Power Electronics, 2022, 37, 6026-6050.	7.9	17
125	Optimal adaptive droop control for effective load sharing in AC microgrids. , 2016, , .		16
126	Dynamic pricing: An efficient solution for true demand response enabling. Journal of Renewable and Sustainable Energy, 2017, 9, .	2.0	16

#	Article	IF	Citations
127	Optimal Day-Ahead Scheduling of the Renewable Based Energy Hubs Considering Demand Side Energy Management. , 2019, , .		16
128	Risk-Constrained Optimal Chiller Loading Strategy Using Information Gap Decision Theory. Applied Sciences (Switzerland), 2019, 9, 1925.	2.5	16
129	A Hybrid Power System Laboratory: Testing Electric and Hybrid Propulsion. IEEE Electrification Magazine, 2019, 7, 89-97.	1.8	16
130	Load shifting control and management of domestic microgeneration systems for improved energy efficiency and comfort. , 2015, , .		15
131	Multi-level energy management and optimal control of a residential DC microgrid. , 2017, , .		15
132	Robust energy hub management using information gap decision theory. , 2017, , .		15
133	Optimal Operation of an Energy Hub in the Presence of Uncertainties. , 2019, , .		15
134	Optimal energy scheduling of a solarâ€based hybrid ship considering coldâ€ironing facilities. IET Renewable Power Generation, 2021, 15, 532-547.	3.1	15
135	Offering and bidding for a wind producer paired with battery and CAES units considering battery degradation. International Journal of Electrical Power and Energy Systems, 2022, 136, 107685.	5.5	15
136	Resilience-constrained expansion planning of integrated powerâ€"gasâ€"heat distribution networks. Applied Energy, 2022, 323, 119315.	10.1	15
137	Hybrid shipboard microgrids: System architectures and energy management aspects. , 2017, , .		14
138	A Flexible Responsive Load Economic Model for Industrial Demands. Processes, 2019, 7, 147.	2.8	14
139	Pulse Tripling Circuit and Twelve Pulse Rectifier Combination for Sinusoidal Input Current. IEEE Access, 2021, 9, 103588-103599.	4.2	14
140	An Improved and Fast MPPT Algorithm for PV Systems Under Partially Shaded Conditions. IEEE Transactions on Sustainable Energy, 2022, 13, 732-742.	8.8	14
141	Peerâ€toâ€peer decentralized energy trading in industrial town considering central shared energy storage using alternating direction method of multipliers algorithm. IET Renewable Power Generation, 2022, 16, 2579-2589.	3.1	14
142	Optimal Design of a Wide Area Measurement System Using Hybrid Wireless Sensors and Phasor Measurement Units. Electronics (Switzerland), 2019, 8, 1085.	3.1	13
143	Modeling and analysis of a solar boosted biomass-driven combined cooling, heating and power plant for domestic applications. Sustainable Energy Technologies and Assessments, 2021, 47, 101326.	2.7	13
144	An economic customer-oriented demand response model in electricity markets. , 2018, , .		12

#	Article	IF	Citations
145	A Decentralized Adaptive Control Method for Frequency Regulation and Power Sharing in Autonomous Microgrids. , 2019, , .		12
146	Practical implementation of residential load management system by considering vehicle-for-power transfer: Profit analysis. Sustainable Cities and Society, 2020, 60, 102144.	10.4	12
147	Municipal solid waste-based district heating and electricity production: A case study. Journal of Cleaner Production, 2021, 297, 126495.	9.3	12
148	Quasi-Luenberger Observer-Based Robust DC Link Control of UIPC for Flexible Power Exchange Control in Hybrid Microgrids. IEEE Systems Journal, 2021, 15, 2845-2854.	4.6	12
149	Stochastic Operation of a Solar-Powered Smart Home: Capturing Thermal Load Uncertainties. Sustainability, 2020, 12, 5089.	3.2	11
150	Enhancing Integrated Power and Water Distribution Networks Seismic Resilience Leveraging Microgrids. Sustainability, 2020, 12, 2167.	3.2	11
151	Riskâ€based optimal operation of coordinated natural gas and reconfigurable electrical networks with integrated energy hubs. IET Renewable Power Generation, 2021, 15, 2657-2673.	3.1	11
152	Networkâ€constrained rail transportation and power system scheduling with mobile battery energy storage under a multiâ€objective twoâ€stage stochastic programming. International Journal of Energy Research, 2021, 45, 18827-18845.	4.5	11
153	Support Vector Machine-Assisted Improvement Residential Load Disaggregation. , 2020, , .		11
154	Conditional value-at-risk model for smart home energy management systems. E-Prime, 2021, 1, 100006.	2.0	11
155	Integrated Expansion Planning of Gas-Electricity System: A Case Study in Iran. , 2018, , .		10
156	Scheduling of Power Generation in Hybrid Shipboard Microgrids with Energy Storage Systems. , 2018, , .		10
157	Risk-Constrained Stochastic Scheduling of a Grid-Connected Hybrid Microgrid with Variable Wind Power Generation. Electronics (Switzerland), 2019, 8, 577.	3.1	10
158	Prediction of energy expenditure during activities of daily living by a wearable set of inertial sensors. Medical Engineering and Physics, 2020, 75, 13-22.	1.7	10
159	Optimal Robust LQI Controller Design for Z-Source Inverters. Applied Sciences (Switzerland), 2020, 10, 7260.	2.5	10
160	A <scp>cyberâ€secure</scp> model to decentralized <scp>coâ€expansion</scp> planning of gas and electricity networks. International Journal of Energy Research, 2021, 45, 13414-13428.	4.5	10
161	An improved 24â€pulse rectifier for harmonic mitigation in more electric aircraft. IET Power Electronics, 2021, 14, 2007-2020.	2.1	10
162	On the Role of Renewable Energy Policies and Electric Vehicle Deployment Incentives for a Greener Sector Coupling. IEEE Access, 2022, 10, 53873-53893.	4.2	10

#	Article	IF	Citations
163	Optimal real-time dispatch for integrated energy systems: An ontology-based multi-agent approach. , 2016, , .		9
164	Optimal Overcurrent Relay Coordination in Presence of Inverter-Based Wind Farms and Electrical Energy Storage Devices. , 2018, , .		9
165	Stochastic Frequency-Security Constrained Scheduling of a Microgrid Considering Price-Driven Demand Response. , 2018, , .		9
166	An Efficient Framework for Improving Microgrid Resilience Against Islanding With Battery Swapping Stations. IEEE Access, 2021, 9, 40008-40018.	4.2	9
167	Adjusting heat demands using the operational data of district heating systems. Energy, 2021, 235, 121368.	8.8	9
168	Optimal Scheduling of a Self-Healing Building Using Hybrid Stochastic-Robust Optimization Approach. IEEE Transactions on Industry Applications, 2022, 58, 3217-3226.	4.9	9
169	Distributed Finite-Time Fault-Tolerant Control of Isolated AC Microgrids Considering Input Constraints. IEEE Transactions on Smart Grid, 2022, 13, 4525-4537.	9.0	9
170	Feasibility study of a novel methodology for solar radiation prediction on an hourly time scale: A case study in Plymouth, United Kingdom. Journal of Renewable and Sustainable Energy, 2014, 6, 033107.	2.0	8
171	Distributed Control and Management of Renewable Electric Energy Resources for Future Grid Requirements. , 0, , .		8
172	A Spatial-Based Integration Model for Regional Scale Solar Energy Technical Potential. Sustainability, 2020, 12, 1890.	3.2	8
173	Exergoeconomic and Environmental Analysis and Multi-Objective Optimization of a New Regenerative Gas Turbine Combined Cycle. Applied Sciences (Switzerland), 2021, 11, 11554.	2.5	8
174	Applications of artificial intelligence in renewable energy systems. IET Renewable Power Generation, 2022, 16, 1279-1282.	3.1	8
175	Optimal Cooperative Management of Energy Storage Systems to Deal with Over- and Under-Voltages. Energies, 2017, 10, 293.	3.1	7
176	Leader-Follower Approach to Gas-Electricity Expansion Planning Problem. , 2018, , .		7
177	Sustainable Energy Systems Planning, Integration, and Management. Applied Sciences (Switzerland), 2019, 9, 4451.	2.5	7
178	AHP-Assisted Multi-Criteria Decision-Making Model for Planning of Microgrids. , 2019, , .		7
179	A Consumer-Oriented Incentive Strategy for EV Charging in Multiareas Under Stochastic Risk-Constrained Scheduling Framework. IEEE Transactions on Industry Applications, 2022, 58, 5262-5274.	4.9	7
180	Coordinated Demand Response and Distributed Generation Management in Residential Smart Microgrids. , 2016, , .		6

#	Article	IF	Citations
181	Combined solar charging stations and energy storage units allocation for electric vehicles by considering uncertainties. , 2017, , .		6
182	Improving Utility of GPU in Accelerating Industrial Applications With User-Centered Automatic Code Translation. IEEE Transactions on Industrial Informatics, 2018, 14, 1347-1360.	11.3	6
183	Sub-Transmission Network Expansion Planning Considering Regional Energy Systems: A Bi-Level Approach. Electronics (Switzerland), 2019, 8, 1416.	3.1	6
184	Optimal Battery Storage Arbitrage Considering Degradation Cost in Energy Markets. , 2020, , .		6
185	Multi-objective dispatch of distributed generations in a grid-connected micro-grid considering demand response actions. , 2013, , .		5
186	An efficient multi-objective approach for designing of communication interfaces in smart grids. , 2016, , .		5
187	Scheduling of Power Generations for Energy Saving in Hybrid AC/DC Shipboard Microgrids. , 2018, , .		5
188	Power-Heat Generation Sources Planning in Microgrids to Enhance Resilience against Islanding due to Natural Disasters. , 2019, , .		5
189	Producing Bio-electricity and Bio-heat from Urban Sewage Sludge in Turkey Using a Two-Stage Process. , 2019, , .		5
190	Bi-Level Operation Scheduling of Distribution Systems with Multi-Microgrids Considering Uncertainties. Electronics (Switzerland), 2020, 9, 1441.	3.1	5
191	A Bi-Level Framework for Optimal Energy Management of Electrical Energy Storage Units in Power Systems. IEEE Access, 2020, 8, 216141-216150.	4.2	5
192	Offering Strategy of Thermal-Photovoltaic-Storage Based Generation Company in Day-Ahead Market. , 2020, , 113-133.		5
193	A Stochastic Transactive Energy Model for Optimal Dispatch of Integrated Low-Carbon Energy Hubs in the Incorporated Electricity and Gas Networks. , 2020, , .		5
194	Hybrid mixed-integer non-linear programming approach for directional over-current relay coordination. Journal of Engineering, 2019, 2019, 4743-4747.	1.1	4
195	An Introduction to Microgrids, Concepts, Definition, and Classifications. Power Systems, 2021, , 3-16.	0.5	4
196	The Effect of Ratio-Based Incentive on Wind Capacity Development and Investment Risk of Wind Units: A System Dynamics Approach. IEEE Access, 2021, 9, 110772-110786.	4.2	4
197	Advanced Exergy Analysis of Waste-Based District Heating Options through Case Studies. Energies, 2021, 14, 4766.	3.1	4
198	An advanced strategy for wind speed forecasting using expert 2-D FIR filters. Advances in Electrical and Computer Engineering, 2010, 10, 103-110.	0.9	4

#	Article	IF	Citations
199	A Consumer-Oriented Incentive Mechanism for EVs Charging in Multi-Microgrids Based on Price Information Sharing. , 2021, , .		4
200	Coronavirus Herd Immunity Optimizer (CHIO) for Transmission Expansion Planning. , 2021, , .		4
201	Proportional Hysteresis Band Control for DC Voltage Stability of Three-Phase Single-Stage PV Systems. Electronics (Switzerland), 2022, 11, 452.	3.1	4
202	Sensor-based and Sensorless Vector Control of PM Synchronous Motor Drives: A Comparative Study. , 2018, , .		3
203	A Decentralized Model for Coordinated Operation of Distribution Network and EV Aggregators. , 2018, , .		3
204	Expansion Planning of Integrated Energy Systems with Flexible Demand-Side Resources. , 2018, , .		3
205	Dynamic Pricing for Microgrids Energy Transaction in Blockchain-based Ecosystem. , 2019, , .		3
206	A novel power management strategy based on combination of 3D droop control and EKF in DC microgrids. IET Renewable Power Generation, 2021, 15, 2540-2555.	3.1	3
207	Transmission Expansion Planning Considering Resistance Variations of Overhead Lines Using Minimum-Volume Covering Ellipsoid. IEEE Transactions on Power Systems, 2022, 37, 1916-1926.	6.5	3
208	Optimal Design and Operation Management of Battery-Based Energy Storage Systems (BESS) in Microgrids. , 2018, , .		2
209	Stochastic Predictive Control of Multi-Microgrid Systems. , 2018, , .		2
210	An Efficient Decision-Making Approach for Optimal Energy Management of Microgrids. , 2019, , .		2
211	Robust Optimization Approach for Generation Scheduling of a Hybrid Thermal-Energy Storage System. , 2020, , .		2
212	A technical assessment on photovoltaic power generation under varying weather profile â€" Northumbria university pilot. , 2020, , .		2
213	Emerging Technologies for the Energy Systems of the Future. Inventions, 2021, 6, 23.	2.5	2
214	Demand side management using the internet of energy based on LoRaWAN technology. Kurdistan Journal of Applied Research, 2017, 2, 112-119.	0.4	2
215	Battery Storage Energy Arbitrage Under Stochastic Dominance Constraints: A New Benchmark Selection Approach. , 2021, , .		2
216	Smart grid: An intelligent way to empower energy choices. , 2010, , .		1

#	Article	IF	Citations
217	Optimal Operational Scheduling of Smart Microgrids Considering Hourly Reconfiguration. , 2018, , .		1
218	MetaSyCar: A System for Metabolic Syndrome Control and Caring. , 2018, , .		1
219	Risk-Constrained Self-Scheduling and Forward Contracting Under Probabilistic-Possibilistic Uncertainties. , 2018, , .		1
220	Microgrid optimal energy and reserve scheduling considering frequency constraints. , 2019, , .		1
221	Hourly Price-Based Demand Response for Optimal Scheduling of Integrated Gas and Power Networks Considering Compressed Air Energy Storage. , 2020, , 55-74.		1
222	Operational Planning of a Hybrid Power Plant for Off-Grid Mining Site: A Risk-constrained Optimization Approach. , 2020, , .		1
223	Strategic planning of power to gas energy storage facilities in electricity market. Sustainable Energy Technologies and Assessments, 2021, 46, 101238.	2.7	1
224	Enhancing Cyber-Security of Distributed Robust State Estimation: Identification of Data Integrity Attacks in Multi-Operator Power System. , 2020, , .		1
225	Solar-Powered Energy Systems for Water Desalination, Power, Cooling, Heating, and Hydrogen Production: Exergy and Exergoeconomic Analysis. , 2020, , 61-81.		1
226	A Novel Transactive Energy Model for Reliable Operation of Resilient Multi-Microgrids Cluster. , 2021, , .		1
227	Robust Energy-Water Management of a Self-healing Complex Based on System-of-Systems. , 2021, , .		1
228	Data-Driven Coordinated Control of AVR and PSS in Power Systems: A Deep Reinforcement Learning Method. , 2021, , .		1
229	Model Reference Adaptive Control of UIPC in Islanded Hybrid Microgrids with Flexible Loads and Storages. , 2021, , .		1
230	Modeling hybrid energy systems for marine applications: Hybrid electric ships. , 2022, , 419-437.		1
231	A Two-Stage ORC Integration to an Existing Fluidized Bed Sewage Sludge Incineration Plant for Power Production in the Scope of Waste-to-Energy. International Journal of Thermodynamics, 0, , 1-13.	1.0	1
232	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.	0.5	1
233	A multi-objective demand side management considering ENS cost in smart grids. , 2017, , .		0
234	Special Issue on Advances in Integrated Energy Systems Design, Control and Optimization. Applied Sciences (Switzerland), 2017, 7, 727.	2.5	0

#	Article	IF	Citations
235	Intelligent Vibration Control of Structures against Earthquakes Using Hybrid Damper. , 2009, , 213-219.		0
236	Reliability Assessment of Power Distribution Networks Considering Covid-19 Pandemic. , 2021, , .		0
237	Techno-Economic Analysis of Hybrid Energy Systems with 100% Renewables in the Grid Modernization Process. , 2021, , .		0
238	Energy management systems for dc microgrids. , 2018, , 91-117.		0
239	Large-Consumer Energy Procurement Optimization Using a Hybrid IGDT-Stochastic Approach. , 2021, , .		0
240	Hybrid Robust-CVaR optimization of Hybrid AC-DC Microgrid. , 2021, , .		0