

Yunfei Mu

List of Publications by Year in descending order

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131
papers

4,310
citations

136950

32
h-index

114465

63
g-index

134
all docs

134
docs citations

134
times ranked

3362
citing authors

#	ARTICLE	IF	CITATIONS
1	A Spatialâ€“Temporal model for grid impact analysis of plug-in electric vehicles. Applied Energy, 2014, 114, 456-465.	10.1	315
2	Optimal distributed generation planning in active distribution networks considering integration of energy storage. Applied Energy, 2018, 210, 1073-1081.	10.1	266
3	Primary Frequency Response From Electric Vehicles in the Great Britain Power System. IEEE Transactions on Smart Grid, 2013, 4, 1142-1150.	9.0	246
4	Vector field-based support vector regression for building energy consumption prediction. Applied Energy, 2019, 242, 403-414.	10.1	233
5	Dynamic economic dispatch of a hybrid energy microgrid considering building based virtual energy storage system. Applied Energy, 2017, 194, 386-398.	10.1	190
6	Optimal scheduling of isolated microgrid with an electric vehicle battery swapping station in multi-stakeholder scenarios: A bi-level programming approach via real-time pricing. Applied Energy, 2018, 232, 54-68.	10.1	188
7	Planning of Fast EV Charging Stations on a Round Freeway. IEEE Transactions on Sustainable Energy, 2016, 7, 1452-1461.	8.8	135
8	Hierarchical microgrid energy management in an office building. Applied Energy, 2017, 208, 480-494.	10.1	129
9	A charging pricing strategy of electric vehicle fast charging stations for the voltage control of electricity distribution networks. Applied Energy, 2018, 225, 857-868.	10.1	116
10	Optimal day-ahead scheduling of integrated urban energy systems. Applied Energy, 2016, 180, 1-13.	10.1	115
11	A distributed Peer-to-Peer energy transaction method for diversified prosumers in Urban Community Microgrid System. Applied Energy, 2020, 260, 114327.	10.1	112
12	A new reliability assessment approach for integrated energy systems: Using hierarchical decoupling optimization framework and impact-increment based state enumeration method. Applied Energy, 2018, 210, 1237-1250.	10.1	108
13	Dynamic frequency response from electric vehicles considering travelling behavior in the Great Britain power system. Applied Energy, 2016, 162, 966-979.	10.1	107
14	A statistical model to determine the capacity of batteryâ€“supercapacitor hybrid energy storage system in autonomous microgrid. International Journal of Electrical Power and Energy Systems, 2014, 54, 516-524.	5.5	94
15	Coordinated control for EV aggregators and power plants in frequency regulation considering time-varying delays. Applied Energy, 2018, 210, 1363-1376.	10.1	83
16	Energy-Internet-oriented microgrid energy management system architecture and its application in China. Applied Energy, 2018, 228, 2153-2164.	10.1	83
17	Flexible operation of active distribution network using integrated smart buildings with heating, ventilation and air-conditioning systems. Applied Energy, 2018, 226, 181-196.	10.1	83
18	Operational Planning of Centralized Charging Stations Utilizing Second-Life Battery Energy Storage Systems. IEEE Transactions on Sustainable Energy, 2021, 12, 387-399.	8.8	82

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19	A double-layer planning method for integrated community energy systems with varying energy conversion efficiencies. <i>Applied Energy</i> , 2020, 279, 115700.	10.1	81
20	A two-stage multi-objective scheduling method for integrated community energy system. <i>Applied Energy</i> , 2018, 216, 428-441.	10.1	71
21	Active power regulation for large-scale wind farms through an efficient power plant model of electric vehicles. <i>Applied Energy</i> , 2017, 185, 1673-1683.	10.1	70
22	Challenges on primary frequency control and potential solution from EVs in the future GB electricity system. <i>Applied Energy</i> , 2017, 194, 353-362.	10.1	61
23	State Space Model of Aggregated Electric Vehicles for Frequency Regulation. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 981-994.	9.0	56
24	Probabilistic energy flow calculation for regional integrated energy system considering cross-system failures. <i>Applied Energy</i> , 2022, 308, 118326.	10.1	52
25	Electric Vehicle Aggregator Modeling and Control for Frequency Regulation Considering Progressive State Recovery. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 4176-4189.	9.0	48
26	An Improved Fault-Tolerant Control Scheme for Cascaded H-Bridge STATCOM With Higher Attainable Balanced Line-to-Line Voltages. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 2784-2797.	7.9	42
27	Planning-Oriented resilience assessment and enhancement of integrated electricity-gas system considering multi-type natural disasters. <i>Applied Energy</i> , 2022, 315, 118824.	10.1	42
28	A Novel Dominant Mode Estimation Method for Analyzing Inter-Area Oscillation in China Southern Power Grid. <i>IEEE Transactions on Smart Grid</i> , 2016, 7, 2549-2560.	9.0	41
29	A Lagrange Multiplier Based State Enumeration Reliability Assessment for Power Systems With Multiple Types of Loads and Renewable Generations. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 3260-3270.	6.5	41
30	Electric/thermal hybrid energy storage planning for park-level integrated energy systems with second-life battery utilization. <i>Advances in Applied Energy</i> , 2021, 4, 100064.	13.2	40
31	A resilience assessment approach for power system from perspectives of system and component levels. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 118, 105837.	5.5	38
32	Scheduling distributed energy resources and smart buildings of a microgrid via multi-time scale and model predictive control method. <i>IET Renewable Power Generation</i> , 2019, 13, 816-833.	3.1	34
33	Full-time scale resilience enhancement framework for power transmission system under ice disasters. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 126, 106609.	5.5	33
34	Peer-to-Peer energy trading strategy for energy balance service provider (EBSP) considering market elasticity in community microgrid. <i>Applied Energy</i> , 2021, 303, 117596.	10.1	31
35	Frequency response of autonomous microgrid based on family-friendly controllable loads. <i>Science China Technological Sciences</i> , 2013, 56, 693-702.	4.0	28
36	A regional power grid operation and planning method considering renewable energy generation and load control. <i>Applied Energy</i> , 2019, 237, 304-313.	10.1	28

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37	Modulated Model Predictive Control for Multilevel Cascaded H-Bridge Converter-Based Static Synchronous Compensator. IEEE Transactions on Industrial Electronics, 2022, 69, 1091-1102.	7.9	28
38	Load curve smoothing strategy based on unified state model of different demand side resources. Journal of Modern Power Systems and Clean Energy, 2018, 6, 540-554.	5.4	27
39	A preventive control strategy for static voltage stability based on an efficient power plant model of electric vehicles. Journal of Modern Power Systems and Clean Energy, 2015, 3, 103-113.	5.4	25
40	A Novel Submodule Voltage Balancing Scheme for Modular Multilevel Cascade Converter-Double-Star Chopper-Cells (MMCC-DSCC) Based STATCOM. IEEE Access, 2019, 7, 83058-83073.	4.2	25
41	Bi-Level Optimization Framework for Buildings to Heating Grid Integration in Integrated Community Energy Systems. IEEE Transactions on Sustainable Energy, 2021, 12, 860-873.	8.8	25
42	Decentralized optimal scheduling for integrated community energy system via consensus-based alternating direction method of multipliers. Applied Energy, 2021, 302, 117448.	10.1	24
43	Dynamic frequency response from electric vehicles in the Great Britain power system. Journal of Modern Power Systems and Clean Energy, 2015, 3, 203-211.	5.4	23
44	Alleviation of overloads in transmission network: A multi-level framework using the capability from active distribution network. International Journal of Electrical Power and Energy Systems, 2019, 112, 232-251.	5.5	23
45	The energy management strategies based on dynamic energy pricing for community integrated energy system considering the interactions between suppliers and users. Energy, 2020, 211, 118677.	8.8	23
46	Optimal scheduling method for belt conveyor system in coal mine considering silo virtual energy storage. Applied Energy, 2020, 275, 115368.	10.1	23
47	Modular multilevel converter based multi-terminal hybrid AC/DC microgrid with improved energy control method. Applied Energy, 2021, 282, 116154.	10.1	22
48	A Dual-Layer Back-Stepping Control Method for Lyapunov Stability in Modular Multilevel Converter Based STATCOM. IEEE Transactions on Industrial Electronics, 2022, 69, 2166-2179.	7.9	22
49	Integrated optimal scheduling and predictive control for energy management of an urban complex considering building thermal dynamics. International Journal of Electrical Power and Energy Systems, 2020, 123, 106273.	5.5	21
50	An Incremental Reliability Assessment Approach for Transmission Expansion Planning. IEEE Transactions on Power Systems, 2018, 33, 2597-2609.	6.5	19
51	Data-Driven Dynamic Modeling of Coupled Thermal and Electric Outputs of Microturbines. IEEE Transactions on Smart Grid, 2018, 9, 1387-1396.	9.0	19
52	Impact-increment based decoupled reliability assessment approach for composite generation and transmission systems. IET Generation, Transmission and Distribution, 2018, 12, 586-595.	2.5	19
53	A CVaR-based risk assessment method for park-level integrated energy system considering the uncertainties and correlation of energy prices. Energy, 2022, 247, 123549.	8.8	19
54	An approach to determining the local boundaries of voltage stability region with wind farms in power injection space. Science China Technological Sciences, 2010, 53, 3232-3240.	4.0	18

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55	A Novel Sliding-Discrete-Control-Set Modulated Model Predictive Control for Modular Multilevel Converter. IEEE Access, 2021, 9, 10316-10327.	4.2	17
56	A Stackelberg Game-based planning approach for integrated community energy system considering multiple participants. Energy, 2022, 258, 124802.	8.8	17
57	Assessment of the solar energy accommodation capability of the district integrated energy systems considering the transmission delay of the heating network. International Journal of Electrical Power and Energy Systems, 2021, 130, 106821.	5.5	15
58	Maximum entropy based probabilistic load flow calculation for power system integrated with wind power generation. Journal of Modern Power Systems and Clean Energy, 2018, 6, 1042-1054.	5.4	14
59	Multi-objective Optimal Hybrid Power Flow Algorithm for Integrated Community Energy System. Energy Procedia, 2017, 105, 2871-2878.	1.8	13
60	A Study on Performance Characterization Considering Six-Degree-of-Freedom Vibration Stress and Aging Stress for Electric Vehicle Battery Under Driving Conditions. IEEE Access, 2019, 7, 112180-112190.	4.2	13
61	A Load Forecast Method for Fast Charging Stations of Electric Vehicles on the freeway considering the information interaction. Energy Procedia, 2017, 142, 2171-2176.	1.8	12
62	Hierarchical energy management for community microgrids with integration of second-life battery energy storage systems and photovoltaic solar energy. IET Energy Systems Integration, 2022, 4, 206-219.	1.8	11
63	Optimal scheduling approach for a combined cooling, heating and power building microgrid considering virtual storage system. , 2016, , .		10
64	Decoupled Optimization of Integrated Energy System Considering CHP Plant Based on Energy Hub Model. Energy Procedia, 2017, 142, 2683-2688.	1.8	10
65	An Incremental-Variable-Based State Enumeration Method for Power System Operational Risk Assessment Considering Safety Margin. IEEE Access, 2020, 8, 18693-18702.	4.2	10
66	Hierarchical Operation Management of Electric Vehicles for Depots With PV On-Site Generation. IEEE Transactions on Smart Grid, 2022, 13, 641-653.	9.0	10
67	CVaR-based operation optimization method of community integrated energy system considering the uncertainty of integrated demand response. Energy Reports, 2022, 8, 1216-1223.	5.1	10
68	Security-Constrained Economic Dispatch for Integrated Natural Gas and Electricity Systems. Energy Procedia, 2016, 88, 330-335.	1.8	9
69	Challenges of Primary Frequency Control and Benefits of Primary Frequency Response Support from Electric Vehicles. Energy Procedia, 2016, 88, 985-990.	1.8	9
70	Novel modular multilevel converter-based five-terminal MV/LV hybrid AC/DC microgrids with improved operation capability under unbalanced power distribution. Applied Energy, 2022, 306, 118140.	10.1	9
71	Optimization of AC / DC Hybrid Distributed Energy System with Power Electronic Transformer. Energy Procedia, 2019, 158, 6687-6692.	1.8	8
72	The Impact-increment State Enumeration Method Based Component Level Resilience Indices of Transmission System. Energy Procedia, 2019, 158, 4099-4103.	1.8	8

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73	Congestion management under peer-to-peer energy trading scheme among microgrids through cooperative game. Energy Reports, 2022, 8, 59-66.	5.1	8
74	A scenario-based optimal dispatch for joint operation of wind farms and combined heat and power plants considering energy flexibilities in heating networks. Electric Power Systems Research, 2022, 204, 107683.	3.6	8
75	Heuristic Planning Method of EV Fast Charging Station on a Freeway Considering the Power Flow Constraints of the Distribution Network. Energy Procedia, 2017, 105, 2422-2428.	1.8	7
76	A quantified resilience assessment approach for electrical power systems considering multiple transmission line outages. , 2017, , .		7
77	Reliability-oriented optimal planning of charging stations in electricity-transportation coupled networks. IET Renewable Power Generation, 2020, 14, 3690-3698.	3.1	7
78	An efficient power plant model of electric vehicles considering the travel behaviors of EV users. , 2014, , .		6
79	A multi-level service restoration strategy of distribution network considering microgrids and electric vehicles. , 2014, , .		6
80	Load power smoothing control of distribution network including photovoltaic generation with energy storage from electric vehicles. , 2017, , .		6
81	An Efficient Power Plant Model of Electric Vehicles for Unit Commitment of Large Scale Wind Farms. Energy Procedia, 2015, 75, 1059-1064.	1.8	5
82	A volt-var optimal control for power system integrated with wind farms considering the available reactive power from EV chargers. , 2016, , .		5
83	An Optimal Scheduling Model for a Hybrid Energy Microgrid Considering Building Based Virtual Energy Storage System. Energy Procedia, 2016, 88, 375-381.	1.8	5
84	Development of Multi-Energy Cooperative Optimization Configuration for Park Energy Internet. , 2018, , .		5
85	A Robust Assessment Model of the Solar Electrical-Thermal Energy Comprehensive Accommodation Capability in a District Integrated Energy System. Energies, 2019, 12, 1363.	3.1	5
86	Multi-scene upgrade and renovation method of existing park-level integrated energy system based on comprehensive analysis. Energy Conversion and Economics, 2020, 1, 184-197.	3.2	5
87	Coordinated operational planning for electric vehicles considering battery swapping and real road networks in logistics delivery service. Energy Reports, 2022, 8, 1019-1027.	5.1	5
88	Dynamic frequency control of autonomous microgrid based on family-friendly controllable loads. , 2013, , .		4
89	A reactive power evaluation model for EV chargers considering travelling behaviors. , 2015, , .		4
90	Optimal dispatching of household air-source heat pump heating system considering thermal comfort. Energy Procedia, 2019, 159, 491-496.	1.8	4

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91	Game-theory based trading analysis between distribution network operator and multi-microgrids. Energy Procedia, 2019, 158, 3387-3392.	1.8	4
92	A Spatial-temporal Electric Vehicle Charging Load Forecasting Method Considering the Coordination among the Multiple Charging Behaviors. , 2021, , .		4
93	A risk management framework for power distribution networks undergoing a typhoon disaster. IET Generation, Transmission and Distribution, 2022, 16, 293.	2.5	4
94	Distributed OPF for PET-Based AC/DC Distribution Networks With Convex Relaxation and Linear Approximation. IEEE Transactions on Smart Grid, 2022, 13, 4340-4354.	9.0	4
95	A multi-level control strategy for transmission congestion relief based on the capability from active distribution network. , 2014, , .		3
96	Perspectives on inter-state transmission interconnection between China and Arab States. , 2016, , .		3
97	Hierarchical Management for Building Microgrid Considering Virtual Storage System and Plug-in Electric Vehicles. Energy Procedia, 2016, 103, 219-224.	1.8	3
98	Model Predictive Control Approach for Building Microgrid Considering Dynamic Thermal Characteristics of Building. Energy Procedia, 2017, 105, 2785-2790.	1.8	3
99	A Unified Management and Control Model of Demand-side Resources. Energy Procedia, 2017, 105, 2935-2940.	1.8	3
100	Rolling Forecast Nature Gas Spot Price with Back Propagation Neural Network. , 2019, , .		3
101	A Novel Fault-Tolerant Control Method for Modular Multilevel Converter with an Improved Phase Disposition Level-Shifted PWM. , 2019, , .		3
102	Risk assessment of park-level integrated energy system considering uncertainty and dynamic correlation of energy prices. Energy Reports, 2021, 7, 451-459.	5.1	3
103	Data-model alliance network for the online multi-step thermal warning of energy storage system based on surface temperature diffusion. Patterns, 2022, 3, 100432.	5.9	3
104	A framework of system integration and integration value analysis: Concept and case studies. IET Energy Systems Integration, 2022, 4, 297-316.	1.8	3
105	A directional control method for interface flow considering static voltage stability. International Journal of Electrical Power and Energy Systems, 2015, 64, 176-184.	5.5	2
106	A new demand response algorithm to maximize renewable energy usage for grid-connect microgrid. Energy Procedia, 2017, 142, 2120-2125.	1.8	2
107	Model predictive control based scheduling method for a building microgrid. , 2017, , .		2
108	A Novel Harmonic Control Method for MMC Combining Improved Nearest Level Control and Selective Harmonic Elimination method. , 2019, , .		2

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109	Smoothing control of wind power fluctuations with battery energy storage system of electric vehicles. <i>International Transactions on Electrical Energy Systems</i> , 2021, 31, e12606.	1.9	2
110	Convex Approximation Algorithm for AC/DC Distribution Network With Energy Router. <i>Frontiers in Energy Research</i> , 2021, 9, .	2.3	2
111	An identification method of weak links of overhead lines in distribution network based on typhoon scenario simulation. , 2019, , 539-547.		2
112	LightGBM-Based Prediction of Remaining Useful Life for Electric Vehicle Battery under Driving Conditions. , 2020, , .		2
113	Static Stability Analysis of Integrated Electricity and Gas System Considering Voltage and Pressure. , 2021, , .		2
114	A differentiation based method to transmission network planning for improving anti-disaster ability. , 2013, , .		1
115	An impact-increment based Monte Carlo simulation reliability assessment approach for transmission systems. , 2017, , .		1
116	Structure Constrained Controller Design for Power Plants and EV Aggregator in Frequency Regulation Considering Time Delays. <i>Energy Procedia</i> , 2019, 158, 2966-2971.	1.8	1
117	Cyber-physical modelling operator and multimodal vibration in the integrated local vehicle-grid electrical system. <i>Applied Energy</i> , 2021, 286, 116432.	10.1	1
118	Risk-constrained multi-period planning for park-level integrated energy system based on CVaR method. , 2021, , .		1
119	Modeling and Control of Centralized Electric Vehicles for Regulation Service. , 2020, , .		1
120	User-friendly rolling control strategy for a heat pump heating system considering building thermal inertia. <i>IET Energy Systems Integration</i> , 2020, 2, 393-403.	1.8	1
121	A Smart Grid Planning Method with Coal-to-electricity Based on Multifactor Adaptability. <i>Journal of Physics: Conference Series</i> , 2021, 2108, 012044.	0.4	1
122	Modeling and Rekasius Substitution Stability Analysis of the Multi-terminal MMC-HVDC Cyber-physical System. , 2021, , .		1
123	Planning of Integrated Community Energy System Considering Uncertain Carbon Trading Price Based on Information Gap Decision Theory. , 2021, , .		1
124	Analysis of Open Circuit Voltage and Internal Degradation under External Factors for EV Battery Considering Hysteresis. , 2021, , .		1
125	Day-Ahead Optimal Interval Scheduling for Building Energy System Considering Building Envelope Virtual Energy Storage Uncertainties. <i>Frontiers in Energy Research</i> , 2022, 10, .	2.3	1
126	Dynamic match optimization: Emerging control concept of sustainable distributed energy system. , 2016, , .		0

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127	Model and Geometric Characteristic of Multi-quadrants Security Region for Active Distribution Network. Lecture Notes in Electrical Engineering, 2021, , 487-497.	0.4	0
128	Parameter Estimation of Lithium Battery Thermal Model Based on Two-Stage Forgetting Factor Least Square Method. , 2021, , .		0
129	Exploiting Flexibility of Heating Network for Integrated Energy System Considering Temperature Gradient and Fatigue Life. , 2020, , .		0
130	Multi-objective Optimal Operation of District Integrated Energy System. , 2020, , .		0
131	An Improved Master-Slave Control Strategy for Medium Voltage DC Distribution System. , 2021, , .		0