

List of Publications by Year in descending order

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116
papers

5,573
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66315

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all docs

116
docs citations

116
times ranked

3743
citing authors

#	ARTICLE	IF	CITATIONS
1	An Enhanced MILP Model for Multistage Reliability-Constrained Distribution Network Expansion Planning. IEEE Transactions on Power Systems, 2022, 37, 118-131.	4.6	34
2	Medium-term planning of active distribution systems considering voltage-dependent loads, network reconfiguration, and CO2 emissions. International Journal of Electrical Power and Energy Systems, 2022, 135, 107541.	3.3	12
3	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.	3.3	15
4	A Microgrid Model With EV Demand Uncertainty and Detailed Operation of Storage Systems. IEEE Transactions on Industry Applications, 2022, 58, 2497-2511.	3.3	5
5	Multistage reliability-based expansion planning of ac distribution networks using a mixed-integer linear programming model. International Journal of Electrical Power and Energy Systems, 2022, 138, 107916.	3.3	15
6	The role of EV based peer-to-peer transactive energy hubs in distribution network optimization. Applied Energy, 2022, 319, 119267.	5.1	9
7	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.	4.6	61
8	Wind Put Barrier Options Pricing Based on the Nordix Index. Energies, 2021, 14, 1177.	1.6	16
9	Intelligent Energy Management in a Prosumer Community Considering the Load Factor Enhancement. Energies, 2021, 14, 3624.	1.6	11
10	A MILP model to relieve the occurrence of new demand peaks by improving the load factor in smart homes. Sustainable Cities and Society, 2021, 71, 102969.	5.1	13
11	Integrated Transmission and Distribution System Expansion Planning Under Uncertainty. IEEE Transactions on Smart Grid, 2021, 12, 4113-4125.	6.2	26
12	Optimization-Based Distribution System Reliability Evaluation: An Enhanced MILP Model. , 2021, , .		1
13	Risk-involved optimal operating strategy of a hybrid power generation company: A mixed interval-CVaR model. Energy, 2021, 232, 120975.	4.5	33
14	Diversified behavioral portfolio as an alternative to Modern Portfolio Theory. North American Journal of Economics and Finance, 2021, 58, 101508.	1.8	7
15	A new parallel and decomposition approach to solve the medium- and low-voltage planning of large-scale power distribution systems. International Journal of Electrical Power and Energy Systems, 2021, 132, 107191.	3.3	5
16	Integrated operational planning model, considering optimal delivery routing, incentives and electric vehicle aggregated demand management. Applied Energy, 2021, 304, 117698.	5.1	18
17	Finding Multiple Equilibria for Raiffaâ€“Kalaiâ€“Smorodinsky and Nash Bargaining Equilibria in Electricity Markets: A Bilateral Contract Model. Designs, 2021, 5, 3.	1.3	1
18	Distributed Power Generation Scheduling, Modeling, and Expansion Planning. Energies, 2021, 14, 7757.	1.6	0

#	ARTICLE	IF	CITATIONS
19	Resilience enhancement in the planning of medium-and low voltage power distribution systems with microgrid formation. , 2021, , .		0
20	Trilateral Planning Model for Integrated Community Energy Systems and PV-Based Prosumersâ€™A Bilevel Stochastic Programming Approach. IEEE Transactions on Power Systems, 2020, 35, 346-361.	4.6	55
21	EPEC approach for finding optimal day-ahead bidding strategy equilibria of multi-microgrids in active distribution networks. International Journal of Electrical Power and Energy Systems, 2020, 117, 105702.	3.3	38
22	A Probability-Based Algorithm for Electric Vehicle Behaviour in a Microgrid with Renewable Energy and Storage Devices. , 2020, , .		2
23	A Stackelberg Game-Based Approach for Transactive Energy Management in Smart Distribution Networks. Energies, 2020, 13, 3621.	1.6	12
24	A Stochastic Model for Medium-Term Distribution System Planning Considering CO ₂ Emissions. , 2020, , .		6
25	An Enhanced Delivery Route Operational Planning Model for Electric Vehicles. IEEE Access, 2020, 8, 141762-141776.	2.6	8
26	Linear Formulations for Topology-Variable-Based Distribution System Reliability Assessment Considering Switching Interruptions. IEEE Transactions on Smart Grid, 2020, 11, 4032-4043.	6.2	21
27	Raiffa-Kalai-Smorodinsky Bargaining Solution for Bilateral Contracts in Electricity Markets. Energies, 2020, 13, 2397.	1.6	7
28	A Bendersâ€™ Decomposition Approach for Renewable Generation Investment in Distribution Systems. Energies, 2020, 13, 1225.	1.6	4
29	The impact of electric vehicle charging schemes in power system expansion planning. Applied Energy, 2020, 262, 114527.	5.1	62
30	Multiobjective Approach for Medium- and Low-Voltage Planning of Power Distribution Systems Considering Renewable Energy and Robustness. Energies, 2020, 13, 2517.	1.6	4
31	Electric Distribution Network Planning Under Uncertainty. Energy Systems, 2020, , 293-323.	0.5	1
32	Efficient Automation of an HEV Heterogeneous Fleet Using a Two-Stage Methodology. IEEE Transactions on Vehicular Technology, 2019, 68, 9494-9506.	3.9	14
33	Uncertainty-Based Models for Optimal Management of Energy Hubs Considering Demand Response. Energies, 2019, 12, 1413.	1.6	35
34	Optimal Selection of Navigation Modes of HEVs Considering CO ₂ Emissions Reduction. IEEE Transactions on Vehicular Technology, 2019, 68, 2196-2206.	3.9	14
35	Distribution System Expansion Planning Considering Non-Utility-Owned DG and an Independent Distribution System Operator. IEEE Transactions on Power Systems, 2019, 34, 2588-2597.	4.6	43
36	Daily pattern prediction based classification modeling approach for day-ahead electricity price forecasting. International Journal of Electrical Power and Energy Systems, 2019, 105, 529-540.	3.3	100

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37	An Enhanced Algebraic Approach for the Analytical Reliability Assessment of Distribution Systems. IEEE Transactions on Power Systems, 2019, 34, 2870-2879.	4.6	42
38	A Stochastic Bilevel Model to Manage Active Distribution Networks With Multi-Microgrids. IEEE Systems Journal, 2019, 13, 4190-4199.	2.9	47
39	Impact of Electric Vehicles on the Expansion Planning of Distribution Systems Considering Renewable Energy, Storage, and Charging Stations. IEEE Transactions on Smart Grid, 2019, 10, 794-804.	6.2	160
40	Playing Pollution Games with Thermal Electricity Generators. Environmental Modeling and Assessment, 2018, 23, 639-651.	1.2	2
41	Distribution System Expansion Planning. Power Systems, 2018, , 1-39.	0.3	2
42	Static and Dynamic Convex Distribution Network Expansion Planning. Power Systems, 2018, , 41-63.	0.3	1
43	Distribution Network Expansion Planning With an Explicit Formulation for Reliability Assessment. IEEE Transactions on Power Systems, 2018, 33, 2583-2596.	4.6	78
44	Energy storage and transmission expansion planning: substitutes or complements?. IET Generation, Transmission and Distribution, 2018, 12, 1738-1746.	1.4	33
45	Joint Distribution Network and Renewable Energy Expansion Planning Considering Demand Response and Energy Storage—Part II: Numerical Results. IEEE Transactions on Smart Grid, 2018, 9, 667-675.	6.2	62
46	Joint Distribution Network and Renewable Energy Expansion Planning Considering Demand Response and Energy Storage—Part I: Stochastic Programming Model. IEEE Transactions on Smart Grid, 2018, 9, 655-666.	6.2	160
47	Reliability Assessment for Distribution Optimization Models: A Non-Simulation-Based Linear Programming Approach. IEEE Transactions on Smart Grid, 2018, 9, 3048-3059.	6.2	44
48	Short-Term Trading for a Concentrating Solar Power Producer in Electricity Markets. , 2018, , .		1
49	A Multiobjective Optimization Technique to Develop Protection Systems of Distribution Networks With Distributed Generation. IEEE Transactions on Power Systems, 2018, 33, 7064-7075.	4.6	41
50	Risk-Constrained Optimal Bidding Strategy for Pairing of Wind and Demand Response Resources. IEEE Transactions on Smart Grid, 2017, 8, 200-208.	6.2	81
51	Bi-Level Approach to Distribution Network and Renewable Energy Expansion Planning Considering Demand Response. IEEE Transactions on Power Systems, 2017, 32, 4298-4309.	4.6	112
52	Basic theoretical foundations and insights on bilevel models and their applications to power systems. Annals of Operations Research, 2017, 254, 303-334.	2.6	70
53	Construction of an efficient portfolio of power purchase decisions based on risk-diversification tradeoff. Energy Economics, 2017, 64, 286-297.	5.6	9
54	When doing nothing may be the best investment action: Pessimistic anticipative power transmission planning. Applied Energy, 2017, 200, 383-398.	5.1	27

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55	Medium- and low-voltage planning of radial electric power distribution systems considering reliability. IET Generation, Transmission and Distribution, 2017, 11, 2212-2221.	1.4	20
56	A Stochastic Bilevel Model for the Energy Hub Manager Problem. IEEE Transactions on Smart Grid, 2017, 8, 2394-2404.	6.2	112
57	Impacts of Operational Variability and Uncertainty on Distributed Generation Investment Planning: A Comprehensive Sensitivity Analysis. IEEE Transactions on Sustainable Energy, 2017, 8, 855-869.	5.9	31
58	A New Transmission Tariff Allocation Model Based on Bilevel Programming. IEEE Transactions on Power Systems, 2017, 32, 2204-2213.	4.6	8
59	A Multiobjective Minimax Regret Robust VAR Planning Model. IEEE Transactions on Power Systems, 2017, 32, 1761-1771.	4.6	10
60	Novel Multi-Stage Stochastic DG Investment Planning with Recourse. IEEE Transactions on Sustainable Energy, 2017, 8, 164-178.	5.9	60
61	Control and protection of active distribution systems using a new multiobjective mathematical model. , 2017, , .		4
62	Forecasting Models of Electricity Prices. Energies, 2017, 10, 160.	1.6	6
63	Optimal Placement of Energy Storage and Wind Power under Uncertainty. Energies, 2016, 9, 528.	1.6	24
64	Portfolio Decision of Short-Term Electricity Forecasted Prices through Stochastic Programming. Energies, 2016, 9, 1069.	1.6	15
65	Impacts of Stochastic Wind Power and Storage Participation on Economic Dispatch in Distribution Systems. IEEE Transactions on Sustainable Energy, 2016, 7, 1336-1345.	5.9	45
66	Optimal Single Wind Hydro-Pump Storage Bidding in Day-Ahead Markets Including Bilateral Contracts. IEEE Transactions on Sustainable Energy, 2016, 7, 1284-1294.	5.9	69
67	Impact of network payment schemes on transmission expansion planning with variable renewable generation. Energy Economics, 2016, 56, 410-421.	5.6	16
68	Optimal Distributed Generation and Reactive Power Allocation in Electrical Distribution Systems. IEEE Transactions on Sustainable Energy, 2016, 7, 975-984.	5.9	160
69	Multistage Generation and Network Expansion Planning in Distribution Systems Considering Uncertainty and Reliability. IEEE Transactions on Power Systems, 2016, 31, 3715-3728.	4.6	155
70	Medium-term energy hub management subject to electricity price and wind uncertainty. Applied Energy, 2016, 168, 418-433.	5.1	150
71	Islanding in distribution systems considering wind power and storage. Sustainable Energy, Grids and Networks, 2016, 5, 156-166.	2.3	10
72	Incentives for wind power investment in Colombia. Renewable Energy, 2016, 87, 279-288.	4.3	11

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73	Optimal Bidding of a Group of Wind Farms in Day-Ahead Markets Through an External Agent. IEEE Transactions on Power Systems, 2016, 31, 2688-2700.	4.6	52
74	Optimal Wind Reversible Hydro Offering Strategies for Midterm Planning. IEEE Transactions on Sustainable Energy, 2015, 6, 1356-1366.	5.9	14
75	A convex chance-constrained model for reactive power planning. International Journal of Electrical Power and Energy Systems, 2015, 71, 403-411.	3.3	20
76	Reactive power planning under conditional value-at-risk assessment using chance-constrained optimisation. IET Generation, Transmission and Distribution, 2015, 9, 231-240.	1.4	24
77	A Stochastic Investment Model for Renewable Generation in Distribution Systems. IEEE Transactions on Sustainable Energy, 2015, 6, 1466-1474.	5.9	92
78	Contingency Assessment and Network Reconfiguration in Distribution Grids Including Wind Power and Energy Storage. IEEE Transactions on Sustainable Energy, 2015, 6, 1524-1533.	5.9	67
79	Optimal generic energy storage system offering in day-ahead electricity markets. , 2015, , .		5
80	Joint Expansion Planning of Distributed Generation and Distribution Networks. IEEE Transactions on Power Systems, 2015, 30, 2579-2590.	4.6	195
81	Optimal expansion planning in distribution networks with distributed generation. , 2014, , .		0
82	Optimal expansion model of renewable distributed generation in distribution systems. , 2014, , .		2
83	Impacts of network expansion on generation capacity expansion. , 2014, , .		2
84	Multiobjective multistage distribution system planning using tabu search. IET Generation, Transmission and Distribution, 2014, 8, 35-45.	1.4	88
85	Unit Commitment With Ideal and Generic Energy Storage Units. IEEE Transactions on Power Systems, 2014, 29, 2974-2984.	4.6	177
86	GARCH-based put option valuation to maximize benefit of wind investors. Applied Energy, 2014, 136, 259-268.	5.1	12
87	Risk-constrained dynamic energy allocation for a wind power producer. Electric Power Systems Research, 2014, 116, 338-346.	2.1	10
88	Modeling the Impact of a Wind Power Producer as a Price-Maker. IEEE Transactions on Power Systems, 2014, 29, 2723-2732.	4.6	51
89	Competition of Thermal Electricity Generators with Coupled Transmission and Emission Constraints. Journal of Energy Engineering - ASCE, 2013, 139, 239-252.	1.0	7
90	Bilevel approach for optimal location and contract pricing of distributed generation in radial distribution systems using mixed-integer linear programming. IET Generation, Transmission and Distribution, 2013, 7, 724-734.	1.4	71

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91	If you build it, he will come: Anticipative power transmission planning. Energy Economics, 2013, 36, 135-146.	5.6	89
92	A multiobjective model for distribution system planning based on tabu search. , 2013, , .		0
93	Optimal coordinated wind-hydro bidding strategies in day-ahead markets. IEEE Transactions on Power Systems, 2013, 28, 798-809.	4.6	111
94	A Multi-Stage Stochastic Non-Linear Model for Reactive Power Planning Under Contingencies. IEEE Transactions on Power Systems, 2013, 28, 1503-1514.	4.6	41
95	A Chance-Constrained Unit Commitment With an n -K Security Criterion and Significant Wind Generation. IEEE Transactions on Power Systems, 2013, 28, 2842-2851.	4.6	143
96	A Three-Level Static MILP Model for Generation and Transmission Expansion Planning. IEEE Transactions on Power Systems, 2013, 28, 202-210.	4.6	216
97	A Principal-Agent Approach to Transmission Expansion Part I: Regulatory Framework. IEEE Transactions on Power Systems, 2013, 28, 256-263.	4.6	11
98	Min-max long run marginal cost to allocate transmission tariffs for transmission users. Electric Power Systems Research, 2013, 101, 25-35.	2.1	21
99	Approaches to transmission planning: A transmission expansion game. , 2012, , .		3
100	ECOTOOL: A general MATLAB Forecasting Toolbox with Applications to Electricity Markets. Energy Systems, 2012, , 151-171.	0.5	17
101	Location and contract pricing of distributed generation using a genetic algorithm. International Journal of Electrical Power and Energy Systems, 2012, 36, 117-126.	3.3	74
102	Planning Long-Term Network Expansion in Electric Energy Systems in Multi-area Settings. Energy Systems, 2012, , 367-393.	0.5	1
103	Optimal Contract Pricing of Distributed Generation in Distribution Networks. IEEE Transactions on Power Systems, 2011, 26, 128-136.	4.6	81
104	Distribution System Planning With Reliability. IEEE Transactions on Power Delivery, 2011, 26, 2552-2562.	2.9	140
105	Finding Multiple Nash Equilibria in Pool-Based Markets: A Stochastic EPEC Approach. IEEE Transactions on Power Systems, 2011, 26, 1744-1752.	4.6	84
106	Optimal Scheduling of a Price-Taker Cascaded Reservoir System in a Pool-Based Electricity Market. IEEE Transactions on Power Systems, 2011, 26, 604-615.	4.6	54
107	Long-term Nash equilibria in electricity markets. Electric Power Systems Research, 2011, 81, 329-339.	2.1	16
108	Transmission Asset Investment in Electricity Markets. Journal of Energy Engineering - ASCE, 2009, 135, 55-63.	1.0	1

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109	An incentive-based mechanism for transmission asset investment. <i>Decision Support Systems</i> , 2009, 47, 22-31.	3.5	40
110	Optimal investment portfolio in renewable energy: The Spanish case. <i>Energy Policy</i> , 2009, 37, 5273-5284.	4.2	83
111	An overview on network cost allocation methods. <i>Electric Power Systems Research</i> , 2009, 79, 750-758.	2.1	41
112	Transmission Expansion Planning in Electricity Markets. <i>IEEE Transactions on Power Systems</i> , 2008, 23, 238-248.	4.6	211
113	An Effective Transmission Network Expansion Cost Allocation Based on Game Theory. <i>IEEE Transactions on Power Systems</i> , 2007, 22, 136-144.	4.6	35
114	$Z_{m \text{ bus}}$ Transmission Network Cost Allocation. <i>IEEE Transactions on Power Systems</i> , 2007, 22, 342-349.	4.6	115
115	Forecasting electricity prices for a day-ahead pool-based electric energy market. <i>International Journal of Forecasting</i> , 2005, 21, 435-462.	3.9	438
116	Multi-agent approach to the planning of power transmission expansion. <i>Decision Support Systems</i> , 2000, 28, 279-290.	3.5	32