

Hamidreza Zareipour

List of Publications by Year in descending order

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154
papers

8,884
citations

50244

46
h-index

48277

88
g-index

155
all docs

155
docs citations

155
times ranked

7629
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy storage for mitigating the variability of renewable electricity sources: An updated review. Energy for Sustainable Development, 2010, 14, 302-314.	2.0	790
2	A review of wind power and wind speed forecasting methods with different time horizons. , 2010, , .		465
3	Home energy management systems: A review of modelling and complexity. Renewable and Sustainable Energy Reviews, 2015, 45, 318-335.	8.2	347
4	Energy Forecasting: A Review and Outlook. IEEE Open Access Journal of Power and Energy, 2020, 7, 376-388.	2.5	268
5	A review and discussion of decomposition-based hybrid models for wind energy forecasting applications. Applied Energy, 2019, 235, 939-953.	5.1	252
6	Short-Term Load Forecast of Microgrids by a New Bilevel Prediction Strategy. IEEE Transactions on Smart Grid, 2010, 1, 286-294.	6.2	246
7	Wind Power Prediction by a New Forecast Engine Composed of Modified Hybrid Neural Network and Enhanced Particle Swarm Optimization. IEEE Transactions on Sustainable Energy, 2011, 2, 265-276.	5.9	245
8	A New Feature Selection Technique for Load and Price Forecast of Electrical Power Systems. IEEE Transactions on Power Systems, 2017, 32, 62-74.	4.6	201
9	Wind power forecast using wavelet neural network trained by improved Clonal selection algorithm. Energy Conversion and Management, 2015, 89, 588-598.	4.4	196
10	Operation Scheduling of Battery Storage Systems in Joint Energy and Ancillary Services Markets. IEEE Transactions on Sustainable Energy, 2017, 8, 1726-1735.	5.9	174
11	A Probabilistic Energy Management Scheme for Renewable-Based Residential Energy Hubs. IEEE Transactions on Smart Grid, 2017, 8, 2217-2227.	6.2	170
12	Application of information-gap decision theory to risk-constrained self-scheduling of GenCos. IEEE Transactions on Power Systems, 2013, 28, 1093-1102.	4.6	167
13	Probabilistic Power Flow by Monte Carlo Simulation With Latin Supercube Sampling. IEEE Transactions on Power Systems, 2013, 28, 1550-1559.	4.6	165
14	Short-term electricity load forecasting of buildings in microgrids. Energy and Buildings, 2015, 99, 50-60.	3.1	148
15	Day-Ahead Power Output Forecasting for Small-Scale Solar Photovoltaic Electricity Generators. IEEE Transactions on Smart Grid, 2015, 6, 2253-2262.	6.2	142
16	A Bilevel Model for Participation of a Storage System in Energy and Reserve Markets. IEEE Transactions on Sustainable Energy, 2018, 9, 582-598.	5.9	131
17	Congestion management using demand response and FACTS devices. International Journal of Electrical Power and Energy Systems, 2012, 37, 78-85.	3.3	129
18	Electricity Price and Demand Forecasting in Smart Grids. IEEE Transactions on Smart Grid, 2012, 3, 664-674.	6.2	128

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19	Application of Public-Domain Market Information to Forecast Ontario's Wholesale Electricity Prices. IEEE Transactions on Power Systems, 2006, 21, 1707-1717.	4.6	121
20	Home energy management incorporating operational priority of appliances. International Journal of Electrical Power and Energy Systems, 2016, 74, 286-292.	3.3	120
21	A practical eco-environmental distribution network planning model including fuel cells and non-renewable distributed energy resources. Renewable Energy, 2011, 36, 179-188.	4.3	112
22	Strategic Sizing of Energy Storage Facilities in Electricity Markets. IEEE Transactions on Sustainable Energy, 2016, 7, 1462-1472.	5.9	111
23	Short-term wind power forecasting using ridgelet neural network. Electric Power Systems Research, 2011, 81, 2099-2107.	2.1	105
24	A Data-Driven Approach for Estimating the Power Generation of Invisible Solar Sites. IEEE Transactions on Smart Grid, 2016, 7, 2466-2476.	6.2	102
25	Electricity market price volatility: The case of Ontario. Energy Policy, 2007, 35, 4739-4748.	4.2	96
26	Equilibria in an Oligopolistic Market With Wind Power Production. IEEE Transactions on Power Systems, 2014, 29, 686-697.	4.6	90
27	A Transmission Planning Framework Considering Future Generation Expansions in Electricity Markets. IEEE Transactions on Power Systems, 2010, 25, 1987-1995.	4.6	84
28	Data association mining for identifying lighting energy waste patterns in educational institutes. Energy and Buildings, 2013, 62, 210-216.	3.1	82
29	Estimating Power Generation of Invisible Solar Sites Using Publicly Available Data. IEEE Transactions on Smart Grid, 2016, 7, 2456-2465.	6.2	81
30	Impacts of large-scale wind and solar power integration on California's net electrical load. Renewable and Sustainable Energy Reviews, 2016, 58, 761-774.	8.2	77
31	A Chance Constrained Programming Approach to the Integrated Planning of Electric Power Generation, Natural Gas Network and Storage. IEEE Transactions on Power Systems, 2018, 33, 6883-6893.	4.6	75
32	Classification of Future Electricity Market Prices. IEEE Transactions on Power Systems, 2011, 26, 165-173.	4.6	74
33	A Price-Maker/Price-Taker Model for the Operation of Battery Storage Systems in Electricity Markets. IEEE Transactions on Smart Grid, 2019, 10, 6912-6920.	6.2	73
34	Electricity Price Forecasting for Operational Scheduling of Behind-the-Meter Storage Systems. IEEE Transactions on Smart Grid, 2018, 9, 6612-6622.	6.2	72
35	Economic Impact of Electricity Market Price Forecasting Errors: A Demand-Side Analysis. IEEE Transactions on Power Systems, 2010, 25, 254-262.	4.6	70
36	The large-scale integration of wind generation: Impacts on price, reliability and dispatchable conventional suppliers. Energy Policy, 2010, 38, 3837-3846.	4.2	68

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37	Data Mining for Electricity Price Classification and the Application to Demand-Side Management. IEEE Transactions on Smart Grid, 2012, 3, 808-817.	6.2	66
38	Cooling Devices in Demand Response: A Comparison of Control Methods. IEEE Transactions on Smart Grid, 2015, 6, 249-260.	6.2	66
39	Long-Term Scheduling of Battery Storage Systems in Energy and Regulation Markets Considering Battery's Lifespan. IEEE Transactions on Smart Grid, 2018, 9, 6840-6849.	6.2	66
40	Risk-Constrained Bidding and Offering Strategy for a Merchant Compressed Air Energy Storage Plant. IEEE Transactions on Power Systems, 2016, , 1-1.	4.6	58
41	Forecasting aggregated wind power production of multiple wind farms using hybrid wavelet-PSO-NNs. International Journal of Energy Research, 2014, 38, 1654-1666.	2.2	54
42	Solution of Optimal Power Flow Subject to Security Constraints by a New Improved Bacterial Foraging Method. IEEE Transactions on Power Systems, 2012, 27, 1311-1323.	4.6	53
43	Economic assessment of a price-maker energy storage facility in the Alberta electricity market. Energy, 2016, 111, 537-547.	4.5	53
44	Multi-period stochastic security-constrained OPF considering the uncertainty sources of wind power, load demand and equipment unavailability. Electric Power Systems Research, 2017, 146, 33-42.	2.1	53
45	Wind power ramp events classification and forecasting: A data mining approach. , 2011, , .		50
46	A chance constrained programming approach to integrated planning of distributed power generation and natural gas network. Electric Power Systems Research, 2017, 151, 197-207.	2.1	49
47	Self-scheduling of a wind producer based on Information Gap Decision Theory. Energy, 2015, 81, 588-600.	4.5	47
48	Wind Turbine Pitch System Condition Monitoring and Fault Detection Based on Optimized Relevance Vector Machine Regression. IEEE Transactions on Sustainable Energy, 2020, 11, 2326-2336.	5.9	46
49	Considering Thermodynamic Characteristics of a CAES Facility in Self-Scheduling in Energy and Reserve Markets. IEEE Transactions on Smart Grid, 2018, 9, 3476-3485.	6.2	44
50	Reliability Modeling of Dynamic Thermal Rating. IEEE Transactions on Power Delivery, 2013, 28, 1600-1609.	2.9	43
51	Impacts of Large-Scale Integration of Intermittent Resources on Electricity Markets: A Supply Function Equilibrium Approach. IEEE Systems Journal, 2012, 6, 220-232.	2.9	42
52	Developing Bidding and Offering Curves of a Price-Maker Energy Storage Facility Based on Robust Optimization. IEEE Transactions on Smart Grid, 2019, 10, 650-660.	6.2	42
53	Home Energy Management Systems: A Review of Modelling and Complexity. Lecture Notes in Energy, 2017, , 753-793.	0.2	41
54	Data centres in the ancillary services market. , 2012, , .		40

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55	The Operation of Ontario's Competitive Electricity Market: Overview, Experiences, and Lessons. IEEE Transactions on Power Systems, 2007, 22, 1782-1793.	4.6	38
56	Energy-Storage Modeling: State-of-the-Art and Future Research Directions. IEEE Transactions on Power Systems, 2022, 37, 860-875.	4.6	37
57	Impacts of Ramping Inflexibility of Conventional Generators on Strategic Operation of Energy Storage Facilities. IEEE Transactions on Smart Grid, 2018, 9, 1334-1344.	6.2	35
58	A Robust Linear Approach for Offering Strategy of a Hybrid Electric Energy Company. IEEE Transactions on Power Systems, 2017, 32, 1949-1959.	4.6	34
59	Hedging Strategies for Heat and Electricity Consumers in the Presence of Real-Time Demand Response Programs. IEEE Transactions on Sustainable Energy, 2019, 10, 1262-1270.	5.9	34
60	Integrated planning of natural gas and electric power systems. International Journal of Electrical Power and Energy Systems, 2018, 103, 593-602.	3.3	34
61	A new hybrid iterative method for short-term wind speed forecasting. European Transactions on Electrical Power, 2011, 21, 581-595.	1.0	33
62	Economic impact of price forecasting inaccuracies on self-scheduling of generation companies. Electric Power Systems Research, 2011, 81, 617-624.	2.1	32
63	The Value of Intra-Day Markets in Power Systems With High Wind Power Penetration. IEEE Transactions on Power Systems, 2014, 29, 1121-1132.	4.6	32
64	Residential Energy Management Using a Two-Horizon Algorithm. IEEE Transactions on Smart Grid, 2014, 5, 1712-1723.	6.2	31
65	Guest Editorial Big Data Analytics for Grid Modernization. IEEE Transactions on Smart Grid, 2016, 7, 2395-2396.	6.2	31
66	A sequential planning approach for Distributed generation and natural gas networks. Energy, 2017, 127, 428-437.	4.5	31
67	A New Stochastic Search Technique Combined With Scenario Approach for Dynamic State Estimation of Power Systems. IEEE Transactions on Power Systems, 2012, 27, 2093-2105.	4.6	30
68	Impacts of Strategic Bidding of Wind Power Producers on Electricity Markets. IEEE Transactions on Power Systems, 2016, 31, 4544-4553.	4.6	30
69	Fault Diagnosis of Wind Turbine Gearbox Based on Deep Bi-Directional Long Short-Term Memory Under Time-Varying Non-Stationary Operating Conditions. IEEE Access, 2019, 7, 155219-155228.	2.6	29
70	A review of modelling approaches to characterize lithium-ion battery energy storage systems in techno-economic analyses of power systems. Renewable and Sustainable Energy Reviews, 2022, 166, 112584.	8.2	28
71	Characteristics of the prices of operating reserves and regulation services in competitive electricity markets. Energy Policy, 2011, 39, 3210-3221.	4.2	27
72	Forecasting the aggregated output of a large fleet of small behind-the-meter solar photovoltaic sites. Renewable Energy, 2020, 147, 1861-1869.	4.3	27

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73	A robust optimization method for co-planning of transmission systems and merchant distributed energy resources. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 118, 105845.	3.3	27
74	Benefits of Strategically Sizing Wind-Integrated Energy Storage and Transmission. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 1141-1151.	4.6	26
75	Frequency regulation services: A comparative study of select North American and European reserve markets. , 2012, , .		25
76	Descriptive Models for Reserve and Regulation Prices in Competitive Electricity Markets. <i>IEEE Transactions on Smart Grid</i> , 2014, 5, 471-479.	6.2	25
77	Impact of wind integration on electricity markets: a chance-constrained Nash Cournot model. <i>International Transactions on Electrical Energy Systems</i> , 2013, 23, 83-96.	1.2	23
78	Fast stochastic security-constrained unit commitment using point estimation method. <i>International Transactions on Electrical Energy Systems</i> , 2016, 26, 671-688.	1.2	22
79	A real option assessment of flexibilities in the integrated planning of natural gas distribution network and distributed natural gas-fired power generations. <i>Energy</i> , 2018, 143, 257-272.	4.5	22
80	Day-Ahead Electricity Demand Forecasting Competition: Post-COVID Paradigm. <i>IEEE Open Access Journal of Power and Energy</i> , 2022, 9, 185-191.	2.5	22
81	Long-Term Market Equilibrium Model With Strategic, Competitive, and Inflexible Generation. <i>IEEE Transactions on Power Systems</i> , 2012, 27, 2291-2292.	4.6	21
82	A Chance-Constrained Optimization Approach for Control of Transmission Voltages. <i>IEEE Transactions on Power Systems</i> , 2012, 27, 1568-1576.	4.6	21
83	Stochastic security-constrained joint market clearing for energy and reserves auctions considering uncertainties of wind power producers and unreliable equipment. <i>International Transactions on Electrical Energy Systems</i> , 2013, 23, 451-472.	1.2	20
84	Energy Storage for Mitigating the Variability of Renewable Electricity Sources. , 2015, , 1-33.		20
85	Resiliency-Oriented Planning of Transmission Systems and Distributed Energy Resources. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 4114-4125.	4.6	20
86	Price impact assessment for large-scale merchant energy storage facilities. <i>Energy</i> , 2017, 125, 27-43.	4.5	19
87	Energy Storage as a Service: Optimal sizing for Transmission Congestion Relief. <i>Applied Energy</i> , 2021, 298, 117095.	5.1	19
88	Medium-term electricity price forecasting. , 2012, , .		18
89	Prediction of Remaining Useful Life of Wind Turbine Bearings under Non-Stationary Operating Conditions. <i>Energies</i> , 2018, 11, 3318.	1.6	18
90	Performance assessment of photovoltaic modules based on daily energy generation estimation. <i>Energy</i> , 2018, 165, 1160-1172.	4.5	18

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91	Environmental benefits of plug-in hybrid electric vehicles: The case of Alberta. , 2009, , .		17
92	Residential energy management using a moving window algorithm. , 2012, , .		16
93	Stochastic self-scheduling of generation companies in day-ahead multi-auction electricity markets considering uncertainty of units and electricity market prices. IET Generation, Transmission and Distribution, 2013, 7, 735-744.	1.4	16
94	Day-Ahead Financial Loss/Gain Modeling and Prediction for a Generation Company. IEEE Transactions on Power Systems, 2017, 32, 3360-3372.	4.6	16
95	Overview of Lithium-Ion Grid-Scale Energy Storage Systems. Current Sustainable/Renewable Energy Reports, 2017, 4, 197-208.	1.2	16
96	One Big Happy Family? Unraveling the Relationship between Shared Perceptions of Team Psychological Contracts, Person-Team Fit and Team Performance. Frontiers in Psychology, 2017, 8, 1966.	1.1	14
97	Security-Constrained Optimal Scheduling of Transmission Outages With Load Curtailment. IEEE Transactions on Power Systems, 2018, 33, 921-931.	4.6	14
98	Flexibility from Electric Boiler and Thermal Storage for Multi Energy System Interaction. Energies, 2020, 13, 98.	1.6	14
99	Medium-term electricity market price forecasting: A data-driven approach. , 2010, , .		13
100	Forecasting Solar Photovoltaic power production at the aggregated system level. , 2014, , .		13
101	A new hybrid stochastic-robust optimization approach for self-scheduling of generation companies. International Transactions on Electrical Energy Systems, 2016, 26, 1244-1259.	1.2	13
102	Microgrid energy management: how uncertainty modelling impacts economic performance. IET Generation, Transmission and Distribution, 2019, 13, 5504-5510.	1.4	13
103	Energy Storage as a Service: Optimal Pricing for Transmission Congestion Relief. IEEE Open Access Journal of Power and Energy, 2020, 7, 514-523.	2.5	13
104	Wireless network performance for residential demand-side participation. , 2010, , .		12
105	Optimum simultaneous clearing of energy and spinning reserve markets using cost/benefit analysis. , 2008, , .		11
106	Bidding strategy for an energy storage facility. , 2016, , .		11
107	Impacts of transmission tariff on price arbitrage operation of energy storage system in Alberta electricity market. Utilities Policy, 2018, 52, 1-12.	2.1	11
108	Predictions for molecular hydrogen adsorption in microporous carbons via molecular dynamics simulations and a suggestion for a hydrogen storage medium. International Journal of Hydrogen Energy, 2007, 32, 3465-3470.	3.8	10

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109	On comparison of two strategies in net demand forecasting using Wavelet Neural Network. , 2014, , .		10
110	Integrated planning of Natural Gas and electricity distribution networks with the presence of distributed natural gas fired generators. , 2016, , .		10
111	On error measures in wind forecasting evaluations. , 2013, , .		9
112	A price signal prediction method for energy arbitrage scheduling of energy storage systems. International Journal of Electrical Power and Energy Systems, 2020, 122, 106122.	3.3	8
113	Risk-constrained stochastic market operation strategies for wind power producers and energy storage systems. Energy, 2021, 215, 119092.	4.5	8
114	Maximizing the utilization of existing grids for renewable energy integration. Renewable Energy, 2022, 189, 618-629.	4.3	8
115	A Shape-Based Clustering Framework for Time Aggregation in the Presence of Variable Generation and Energy Storage. IEEE Open Access Journal of Power and Energy, 2021, 8, 448-459.	2.5	7
116	Comparison of fixed speed wind turbines models: A case study. , 2012, , .		6
117	Linearized Power Flow Equations Based Predictive Control of Transmission Voltages. , 2013, , .		6
118	Guest Editorial: Special Section on Analytics for Energy Forecasting with Applications to Smart Grid. IEEE Transactions on Smart Grid, 2014, 5, 399-401.	6.2	6
119	Centralized home energy management in multi-carrier energy frameworks. , 2015, , .		6
120	Optimal integration of multiple wind farms into bulk electric system considering wind speed correlation uncertainties. International Transactions on Electrical Energy Systems, 2016, 26, 1085-1102.	1.2	6
121	Energy Storage Participation in Wholesale Markets: The Impact of State-of-Energy Management. IEEE Open Access Journal of Power and Energy, 2022, 9, 173-182.	2.5	6
122	Stochastic modeling of future wind generation scenarios. , 2008, , .		5
123	Impacts of Ramp Rate Limits on Oligopolistic Opportunities in Electricity Markets. IEEE Systems Journal, 2016, 10, 127-135.	2.9	5
124	Battery investment by a strategic wind producer: A scenario-based decomposition approach. Electric Power Systems Research, 2020, 182, 106255.	2.1	5
125	An unsupervised hourly weather status pattern recognition and blending fitting model for PV system fault detection. Applied Energy, 2022, 319, 119271.	5.1	5
126	Electricity market price forecasting in a price-responsive smart grid environment. , 2010, , .		4

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127	Delivering ancillary services with data centres. Sustainable Computing: Informatics and Systems, 2013, 3, 172-182.	1.6	4
128	Estimating the Price Impact of Proposed Wind Farms in Competitive Electricity Markets. IEEE Transactions on Sustainable Energy, 2017, 8, 291-303.	5.9	4
129	Estimation of the Daily Variability of Aggregate Wind Power Generation in Alberta, Canada. Energies, 2019, 12, 1998.	1.6	4
130	Electricity price forecasting considering residual demand. , 2012, , .		3
131	Foreword for the Special Section on Power and Energy Education. IEEE Transactions on Power Systems, 2014, 29, 1871-1873.	4.6	3
132	Big Data Analytics for Modelling the Impact of Wind Power Generation on Competitive Electricity Market Prices. , 2016, , .		3
133	Deciding on the support schemes for upcoming wind farms in competitive electricity markets. Energy, 2016, 116, 8-19.	4.5	3
134	Solar Power Capacity Value Evaluation-A Review. , 2018, , .		3
135	Performance assessment of photovoltaic modules using improved threshold-based methods. Solar Energy, 2019, 190, 515-524.	2.9	3
136	Transmission planning in deregulated markets considering GenCos' strategic behavior. , 2008, , .		2
137	A reduced model of the Alberta electric system for policy, regulatory, and future development studies. , 2008, , .		2
138	Time averaging and threshold effect on statistics of residential power consumption. , 2011, , .		2
139	Electricity price thresholding and classification. , 2011, , .		2
140	A Data-Driven Method to Detect the Abnormal Instances in an Electricity Market. , 2015, , .		2
141	Integrated electricity generation, CHPs, and boilers expansion planning: Alberta case study. , 2015, , .		2
142	Economic Assessment of Energy Storage Systems in Alberta's Energy and Operating Reserve Markets. , 2018, , .		2
143	The Impact of CLOD Load Model Parameters on Dynamic Simulation of Large Power Systems. , 2019, , .		2
144	A modified CIGRE HVDC benchmark model for 60 Hz applications. , 2014, , .		1

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145	Descriptive models for hourly reserve prices in electricity market. , 2016, , .		1
146	Real option valuation of flexibilities in the integrated planning of natural gas-fired distributed generators and natural gas distribution system. , 2017, , .		1
147	Guest Editorial for the Special Section on Advances in Renewable Energy Forecasting: Predictability, Business Models and Applications in the Power Industry. IEEE Transactions on Sustainable Energy, 2022, 13, 1166-1168.	5.9	1
148	An overview of the operation of the Alberta electricity market. , 2010, , .		0
149	Investigation of enabling wind generations employing plug-in hybrid electric vehicles. , 2012, , .		0
150	Price Forecasting in the Spanish Day-Ahead Electricity Market Using Preconditioned Wind Power Information. , 2013, , .		0
151	Guest Editorial Special Section on Reserve and Flexibility for Handling Variability and Uncertainty of Renewable Generation. IEEE Transactions on Sustainable Energy, 2016, 7, 613-613.	5.9	0
152	Corrections to "Impacts of Strategic Bidding of Wind Power Producers on Electricity Markets" [Nov 16 4544-4553]. IEEE Transactions on Power Systems, 2017, 32, 2489-2489.	4.6	0
153	Corrigendum to "A sequential planning approach for Distributed Generation and natural gas networks" [Energy 127 (2017) 428-437]. Energy, 2017, 141, 2688-2689.	4.5	0
154	Modeling Hourly Original Operating Reserve Prices in Electricity Market. , 2018, , .		0