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 Modeling: State-of-the-Art and Future Research Directions. IEEE Transactions on Power Systems, 2022, 37, 860-875.	4.6	37
2	Day-Ahead Electricity Demand Forecasting Competition: Post-COVID Paradigm. IEEE Open Access Journal of Power and Energy, 2022, 9, 185-191.	2.5	22
3	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
4	Maximizing the utilization of existing grids for renewable energy integration. Renewable Energy, 2022, 189, 618-629.	4.3	8
5	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
6	An unsupervised hourly weather status pattern recognition and blending fitting model for PV system fault detection. Applied Energy, 2022, 319, 119271.	5.1	5
7	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
8	Benefits of Strategically Sizing Wind-Integrated Energy Storage and Transmission. IEEE Transactions on Power Systems, 2021, 36, 1141-1151.	4.6	26
9	Risk-constrained stochastic market operation strategies for wind power producers and energy storage systems. Energy, 2021, 215, 119092.	4.5	8
10	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
11	Resiliency-Oriented Planning of Transmission Systems and Distributed Energy Resources. IEEE Transactions on Power Systems, 2021, 36, 4114-4125.	4.6	20
12	Energy Storage as a Service: Optimal sizing for Transmission Congestion Relief. Applied Energy, 2021, 298, 117095.	5.1	19
13	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
14	Flexibility from Electric Boiler and Thermal Storage for Multi Energy System Interaction. Energies, 2020, 13, 98.	1.6	14
15	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
16	Energy Forecasting: A Review and Outlook. IEEE Open Access Journal of Power and Energy, 2020, 7, 376-388.	2.5	268
17	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
18	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

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19	Battery investment by a strategic wind producer: A scenario-based decomposition approach. Electric Power Systems Research, 2020, 182, 106255.	2.1	5
20	A robust optimization method for co-planning of transmission systems and merchant distributed energy resources. International Journal of Electrical Power and Energy Systems, 2020, 118, 105845.	3.3	27
21	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
22	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
23	Performance assessment of photovoltaic modules using improved threshold-based methods. Solar Energy, 2019, 190, 515-524.	2.9	3
24	The Impact of CLOD Load Model Parameters on Dynamic Simulation of Large Power Systems. , 2019, , .		2
25	Estimation of the Daily Variability of Aggregate Wind Power Generation in Alberta, Canada. Energies, 2019, 12, 1998.	1.6	4
26	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
27	Microgrid energy management: how uncertainty modelling impacts economic performance. IET Generation, Transmission and Distribution, 2019, 13, 5504-5510.	1.4	13
28	A review and discussion of decomposition-based hybrid models for wind energy forecasting applications. Applied Energy, 2019, 235, 939-953.	5.1	252
29	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
30	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
31	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
32	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
33	Security-Constrained Optimal Scheduling of Transmission Outages With Load Curtailment. IEEE Transactions on Power Systems, 2018, 33, 921-931.	4.6	14
34	Long-Term Scheduling of Battery Storage Systems in Energy and Regulation Markets Considering Batteryâ€™s Lifespan. IEEE Transactions on Smart Grid, 2018, 9, 6840-6849.	6.2	66
35	Electricity Price Forecasting for Operational Scheduling of Behind-the-Meter Storage Systems. IEEE Transactions on Smart Grid, 2018, 9, 6612-6622.	6.2	72
36	A real option assessment of flexibilities in the integrated planning of natural gas distribution network and distributed natural gas-fired power generations. Energy, 2018, 143, 257-272.	4.5	22

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37	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
38	Modeling Hourly Original Operating Reserve Prices in Electricity Market. , 2018, , .		0
39	Solar Power Capacity Value Evaluation-A Review. , 2018, , .		3
40	Prediction of Remaining Useful Life of Wind Turbine Bearings under Non-Stationary Operating Conditions. Energies, 2018, 11, 3318.	1.6	18
41	Performance assessment of photovoltaic modules based on daily energy generation estimation. Energy, 2018, 165, 1160-1172.	4.5	18
42	Economic Assessment of Energy Storage Systems in Alberta's Energy and Operating Reserve Markets. , 2018, , .		2
43	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
44	Integrated planning of natural gas and electric power systems. International Journal of Electrical Power and Energy Systems, 2018, 103, 593-602.	3.3	34
45	A Probabilistic Energy Management Scheme for Renewable-Based Residential Energy Hubs. IEEE Transactions on Smart Grid, 2017, 8, 2217-2227.	6.2	170
46	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
47	Day-Ahead Financial Loss/Gain Modeling and Prediction for a Generation Company. IEEE Transactions on Power Systems, 2017, 32, 3360-3372.	4.6	16
48	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
49	Price impact assessment for large-scale merchant energy storage facilities. Energy, 2017, 125, 27-43.	4.5	19
50	Corrections to â€œImpacts of Strategic Bidding of Wind Power Producers on Electricity Marketsâ€•[Nov 16 4544-4553]. IEEE Transactions on Power Systems, 2017, 32, 2489-2489.	4.6	0
51	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
52	A sequential planning approach for Distributed generation and natural gas networks. Energy, 2017, 127, 428-437.	4.5	31
53	Overview of Lithium-Ion Grid-Scale Energy Storage Systems. Current Sustainable/Renewable Energy Reports, 2017, 4, 197-208.	1.2	16
54	Corrigendum to â€œA sequential planning approach for Distributed Generation and natural gas networksâ€•[Energy 127 (2017) 428â€“437]. Energy, 2017, 141, 2688-2689.	4.5	0

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55	Home Energy Management Systems: A Review of Modelling and Complexity. Lecture Notes in Energy, 2017, , 753-793.	0.2	41
56	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
57	Estimating the Price Impact of Proposed Wind Farms in Competitive Electricity Markets. IEEE Transactions on Sustainable Energy, 2017, 8, 291-303.	5.9	4
58	Real option valuation of flexibilities in the integrated planning of natural gas-fired distributed generators and natural gas distribution system. , 2017, , .		1
59	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
60	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
61	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
62	Fast stochastic security-constrained unit commitment using point estimation method. International Transactions on Electrical Energy Systems, 2016, 26, 671-688.	1.2	22
63	Integrated planning of Natural Gas and electricity distribution networks with the presence of distributed natural gas fired generators. , 2016, , .		10
64	Big Data Analytics for Modelling the Impact of Wind Power Generation on Competitive Electricity Market Prices. , 2016, , .		3
65	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
66	Strategic Sizing of Energy Storage Facilities in Electricity Markets. IEEE Transactions on Sustainable Energy, 2016, 7, 1462-1472.	5.9	111
67	Deciding on the support schemes for upcoming wind farms in competitive electricity markets. Energy, 2016, 116, 8-19.	4.5	3
68	Guest Editorial Big Data Analytics for Grid Modernization. IEEE Transactions on Smart Grid, 2016, 7, 2395-2396.	6.2	31
69	Bidding strategy for an energy storage facility. , 2016, , .		11
70	Descriptive models for hourly reserve prices in electricity market. , 2016, , .		1
71	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
72	Economic assessment of a price-maker energy storage facility in the Alberta electricity market. Energy, 2016, 111, 537-547.	4.5	53

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73	Impacts of large-scale wind and solar power integration on California×3s net electrical load. Renewable and Sustainable Energy Reviews, 2016, 58, 761-774.	8.2	77
74	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
75	Impacts of Strategic Bidding of Wind Power Producers on Electricity Markets. IEEE Transactions on Power Systems, 2016, 31, 4544-4553.	4.6	30
76	Estimating Power Generation of Invisible Solar Sites Using Publicly Available Data. IEEE Transactions on Smart Grid, 2016, 7, 2456-2465.	6.2	81
77	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
78	Home energy management incorporating operational priority of appliances. International Journal of Electrical Power and Energy Systems, 2016, 74, 286-292.	3.3	120
79	Impacts of Ramp Rate Limits on Oligopolistic Opportunities in Electricity Markets. IEEE Systems Journal, 2016, 10, 127-135.	2.9	5
80	A Data-Driven Method to Detect the Abnormal Instances in an Electricity Market. , 2015, , .		2
81	Day-Ahead Power Output Forecasting for Small-Scale Solar Photovoltaic Electricity Generators. IEEE Transactions on Smart Grid, 2015, 6, 2253-2262.	6.2	142
82	Integrated electricity generation, CHPs, and boilers expansion planning: Alberta case study. , 2015, , .		2
83	Home energy management systems: A review of modelling and complexity. Renewable and Sustainable Energy Reviews, 2015, 45, 318-335.	8.2	347
84	Self-scheduling of a wind producer based on Information Gap Decision Theory. Energy, 2015, 81, 588-600.	4.5	47
85	Short-term electricity load forecasting of buildings in microgrids. Energy and Buildings, 2015, 99, 50-60.	3.1	148
86	Centralized home energy management in multi-carrier energy frameworks. , 2015, , .		6
87	Energy Storage for Mitigating the Variability of Renewable Electricity Sources. , 2015, , 1-33.		20
88	Cooling Devices in Demand Response: A Comparison of Control Methods. IEEE Transactions on Smart Grid, 2015, 6, 249-260.	6.2	66
89	Wind power forecast using wavelet neural network trained by improved Clonal selection algorithm. Energy Conversion and Management, 2015, 89, 588-598.	4.4	196
90	Forecasting Solar Photovoltaic power production at the aggregated system level. , 2014, , .		13

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91	A modified CIGRE HVDC benchmark model for 60 Hz applications. , 2014, , .		1
92	On comparison of two strategies in net demand forecasting using Wavelet Neural Network. , 2014, , .		10
93	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
94	Foreword for the Special Section on Power and Energy Education. IEEE Transactions on Power Systems, 2014, 29, 1871-1873.	4.6	3
95	Residential Energy Management Using a Two-Horizon Algorithm. IEEE Transactions on Smart Grid, 2014, 5, 1712-1723.	6.2	31
96	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
97	Descriptive Models for Reserve and Regulation Prices in Competitive Electricity Markets. IEEE Transactions on Smart Grid, 2014, 5, 471-479.	6.2	25
98	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
99	Equilibria in an Oligopolistic Market With Wind Power Production. IEEE Transactions on Power Systems, 2014, 29, 686-697.	4.6	90
100	Impact of wind integration on electricity markets: a chance-constrained Nash Cournot model. International Transactions on Electrical Energy Systems, 2013, 23, 83-96.	1.2	23
101	Stochastic security-constrained joint market clearing for energy and reserves auctions considering uncertainties of wind power producers and unreliable equipment. International Transactions on Electrical Energy Systems, 2013, 23, 451-472.	1.2	20
102	Stochastic selfâ€scheduling of generation companies in dayâ€ahead multiâ€auction electricity markets considering uncertainty of units and electricity market prices. IET Generation, Transmission and Distribution, 2013, 7, 735-744.	1.4	16
103	Data association mining for identifying lighting energy waste patterns in educational institutes. Energy and Buildings, 2013, 62, 210-216.	3.1	82
104	Reliability Modeling of Dynamic Thermal Rating. IEEE Transactions on Power Delivery, 2013, 28, 1600-1609.	2.9	43
105	On error measures in wind forecasting evaluations. , 2013, , .		9
106	Probabilistic Power Flow by Monte Carlo Simulation With Latin Supercube Sampling. IEEE Transactions on Power Systems, 2013, 28, 1550-1559.	4.6	165
107	Delivering ancillary services with data centres. Sustainable Computing: Informatics and Systems, 2013, 3, 172-182.	1.6	4
108	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

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109	Linearized Power Flow Equations Based Predictive Control of Transmission Voltages. , 2013, , .		6
110	Price Forecasting in the Spanish Day-Ahead Electricity Market Using Preconditioned Wind Power Information. , 2013, , .		0
111	Comparison of fixed speed wind turbines models: A case study. , 2012, , .		6
112	Investigation of enabling wind generations employing plug-in hybrid electric vehicles. , 2012, , .		0
113	Frequency regulation services: A comparative study of select North American and European reserve markets. , 2012, , .		25
114	Residential energy management using a moving window algorithm. , 2012, , .		16
115	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
116	Long-Term Market Equilibrium Model With Strategic, Competitive, and Inflexible Generation. IEEE Transactions on Power Systems, 2012, 27, 2291-2292.	4.6	21
117	A Chance-Constrained Optimization Approach for Control of Transmission Voltages. IEEE Transactions on Power Systems, 2012, 27, 1568-1576.	4.6	21
118	Medium-term electricity price forecasting. , 2012, , .		18
119	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
120	Data centres in the ancillary services market. , 2012, , .		40
121	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
122	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
123	Electricity Price and Demand Forecasting in Smart Grids. IEEE Transactions on Smart Grid, 2012, 3, 664-674.	6.2	128
124	Electricity price forecasting considering residual demand. , 2012, , .		3
125	Congestion management using demand response and FACTS devices. International Journal of Electrical Power and Energy Systems, 2012, 37, 78-85.	3.3	129
126	Time averaging and threshold effect on statistics of residential power consumption. , 2011, , .		2

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127	Wind power ramp events classification and forecasting: A data mining approach. , 2011, , .		50
128	Electricity price thresholding and classification. , 2011, , .		2
129	Classification of Future Electricity Market Prices. IEEE Transactions on Power Systems, 2011, 26, 165-173.	4.6	74
130	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
131	Short-term wind power forecasting using ridgelet neural network. Electric Power Systems Research, 2011, 81, 2099-2107.	2.1	105
132	A new hybrid iterative method for short-term wind speed forecasting. European Transactions on Electrical Power, 2011, 21, 581-595.	1.0	33
133	Characteristics of the prices of operating reserves and regulation services in competitive electricity markets. Energy Policy, 2011, 39, 3210-3221.	4.2	27
134	Economic impact of price forecasting inaccuracies on self-scheduling of generation companies. Electric Power Systems Research, 2011, 81, 617-624.	2.1	32
135	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
136	The large-scale integration of wind generation: Impacts on price, reliability and dispatchable conventional suppliers. Energy Policy, 2010, 38, 3837-3846.	4.2	68
137	Energy storage for mitigating the variability of renewable electricity sources: An updated review. Energy for Sustainable Development, 2010, 14, 302-314.	2.0	790
138	Short-Term Load Forecast of Microgrids by a New Bilevel Prediction Strategy. IEEE Transactions on Smart Grid, 2010, 1, 286-294.	6.2	246
139	An overview of the operation of the Alberta electricity market. , 2010, , .		0
140	Economic Impact of Electricity Market Price Forecasting Errors: A Demand-Side Analysis. IEEE Transactions on Power Systems, 2010, 25, 254-262.	4.6	70
141	A Transmission Planning Framework Considering Future Generation Expansions in Electricity Markets. IEEE Transactions on Power Systems, 2010, 25, 1987-1995.	4.6	84
142	Electricity market price forecasting in a price-responsive smart grid environment. , 2010, , .		4
143	A review of wind power and wind speed forecasting methods with different time horizons. , 2010, , .		465
144	Medium-term electricity market price forecasting: A data-driven approach. , 2010, , .		13

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145	Wireless network performance for residential demand-side participation. , 2010, , .		12
146	Environmental benefits of plug-in hybrid electric vehicles: The case of Alberta. , 2009, , .		17
147	Transmission planning in deregulated markets considering GenCos' strategic behavior. , 2008, , .		2
148	Optimum simultaneous clearing of energy and spinning reserve markets using cost/benefit analysis. , 2008, , .		11
149	A reduced model of the Alberta electric system for policy, regulatory, and future development studies. , 2008, , .		2
150	Stochastic modeling of future wind generation scenarios. , 2008, , .		5
151	The Operation of Ontario's Competitive Electricity Market: Overview, Experiences, and Lessons. IEEE Transactions on Power Systems, 2007, 22, 1782-1793.	4.6	38
152	Electricity market price volatility: The case of Ontario. Energy Policy, 2007, 35, 4739-4748.	4.2	96
153	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
154	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