Le Xie

List of Publications by Year
in descending order

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210	6,939	81889	85537
papers	citations	39 h-index	71 g-index

213	213	213	5566
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Massively Digitized Power Grid: Opportunities and Challenges of Use-Inspired AI. Proceedings of the IEEE, 2023, 111, 762-787.	21.3	4
2	Computing Essential Sets for Convex and Nonconvex Scenario Problems: Theory and Application. IEEE Transactions on Control of Network Systems, 2022, 9, 269-281.	3.7	3
3	A Neural Lyapunov Approach to Transient Stability Assessment of Power Electronics-Interfaced Networked Microgrids. IEEE Transactions on Smart Grid, 2022, 13, 106-118.	9.0	23
4	Targeted demand response for mitigating price volatility and enhancing grid reliability in synthetic Texas electricity markets. IScience, 2022, 25, 103723.	4.1	13
5	Extreme events, energy security and equality through micro- and macro-levels: Concepts, challenges and methods. Energy Research and Social Science, 2022, 85, 102401.	6.4	10
6	Deep Reinforcement Learning-Based Robust Protection in DER-Rich Distribution Grids. IEEE Open Access Journal of Power and Energy, 2022, 9, 537-548.	3.4	6
7	Two-stage robust energy storage planning with probabilistic guarantees: A data-driven approach. Applied Energy, 2022, 313, 118623.	10.1	12
8	The impact of heavy-duty vehicle electrification on large power grids: A synthetic Texas case study. Advances in Applied Energy, 2022, 6, 100093.	13.2	8
9	Towards an AI-friendly cross-timescale simulation and analysis platform for electric distribution systems. , 2022, 1, 133-140.		0
10	A multi-scale time-series dataset with benchmark for machine learning in decarbonized energy grids. Scientific Data, 2022, 9, .	5.3	13
11	Power Electronics Intelligence at the Network Edge (PINE)â€"An Approach to Interface PV and Battery Energy Storage Systems at the Grid Edge. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5219-5227.	5.4	11
12	A Hierarchical Low-Rank Approximation Based Network Solver for EMT Simulation. IEEE Transactions on Power Delivery, 2021, 36, 280-288.	4.3	4
13	Unsupervised Congestion Status Identification Using LMP Data. IEEE Transactions on Smart Grid, 2021, 12, 726-736.	9.0	12
14	Generative Adversarial Networks-Based Synthetic PMU Data Creation for Improved Event Classification. IEEE Open Access Journal of Power and Energy, 2021, 8, 68-76.	3.4	17
15	Distributed Mixed Voltage Angle and Frequency Droop Control of Microgrid Interconnections With Loss of Distribution-PMU Measurements. IEEE Open Access Journal of Power and Energy, 2021, 8, 45-56.	3.4	21
16	Quantitative assessment of U.S. bulk power systems and market operations during the COVID-19 pandemic. Applied Energy, 2021, 286, 116354.	10.1	40
17	A smart meter data-driven distribution utility rate model for networks with prosumers. Utilities Policy, 2021, 70, 101212.	4.0	11
18	Privacy-Preserving Energy Management of a Shared Energy Storage System for Smart Buildings: A Federated Deep Reinforcement Learning Approach. Sensors, 2021, 21, 4898.	3.8	10

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19	Enabling Secure Peer-to-Peer Energy Transactions Through Dynamic Watermarking in Electric Distribution Grids: Defending the distribution system against sophisticated cyberattacks with a provable guarantee. IEEE Electrification Magazine, 2021, 9, 55-64.	1.8	4
20	Searching for the shortest path to voltage instability boundary: From Euclidean space to algebraic manifold. International Journal of Electrical Power and Energy Systems, 2021, 131, 107127.	5.5	4
21	A Review of Current Research Trends in Power-Electronic Innovations in Cyberâ€“Physical Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5146-5163.	5.4	48
22	An open-source extendable model and corrective measure assessment of the 2021 texas power outage. Advances in Applied Energy, 2021, 4, 100056.	13.2	41
23	Fully Decentralized Reinforcement Learning-Based Control of Photovoltaics in Distribution Grids for Joint Provision of Real and Reactive Power. IEEE Open Access Journal of Power and Energy, 2021, 8, 175-185.	3.4	17
24	Probabilistic Hosting Capacity Analysis via Bayesian Optimization. , 2021, , .		6
25	An Efficient Network Solver for Electromagnetic Transient Simulation of Power Systems Based on Hierarchical Inverse Computation and Modification. , 2021, , .		0
26	Internetâ€ofâ€Things technology and applications for clean energy systems. Energy Conversion and Economics, 2021, 2, 183-185.	3.2	1
27	Distributed Learning-based Stability Assessment for Large Scale Networks of Dissipative Systems. , 2021, , .		0
28	A Cross-Domain Approach to Analyzing the Short-Run Impact of COVID-19 on the US Electricity Sector. Joule, 2020, 4, 2322-2337.	24.0	121
29	Planning of survivable nano-grids through jointly optimized water and electricity: The case of Colonias at the Texas-Mexico border. Applied Energy, 2020, 278, 115586.	10.1	5
30	Mixed Voltage Angle and Frequency Droop Control for Transient Stability of Interconnected Microgrids with Loss of PMU Measurements. , 2020, , .		5
31	Overvoltage analysis and protection of lightning arresters in distribution systems with distributed generation. International Journal of Electrical Power and Energy Systems, 2020, 123, 106209.	5.5	15
32	A Synchrophasor Data-Driven Method for Forced Oscillation Localization Under Resonance Conditions. IEEE Transactions on Power Systems, 2020, 35, 3927-3939.	6.5	32
33	A Comprehensive Power Flow Approach for Multi-terminal VSC-HVDC System Considering Cross-regional Primary Frequency Responses. Journal of Modern Power Systems and Clean Energy, 2020, 8, 238-248.	5.4	16
34	Operational reliability and economy evaluation of reusing retired batteries in composite power systems. International Journal of Energy Research, 2020, 44, 3657-3673.	4.5	17
35	Prediction and assessment of demand response potential with coupon incentives in highly renewable power systems. Protection and Control of Modern Power Systems, 2020, 5, .	7.5	39
36	Communication-free Voltage Regulation in Distribution Networks with Deep PV Penetration. , 2020, , .		8

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37	A Holistic Framework for Parameter Coordination of Interconnected Microgrids against Disasters. , 2020, , .		5
38	Detection of Cyber Attacks in Renewable-rich Microgrids Using Dynamic Watermarking. , 2020, , .		8
39	Scenario-Based Economic Dispatch With Tunable Risk Levels in High-Renewable Power Systems. , 2020, , .		0
40	Detection of Energy Theft in Smart Grids using Electricity Consumption Patterns. , 2020, , .		7
41	An Active Detection Scheme for Cyber Attacks on Grid-tied PV Systems. , 2020, , .		10
42	Synthetic Dynamic PMU Data Generation: A Generative Adversarial Network Approach. , 2019, , .		14
43	Feature selection for probabilistic load forecasting via sparse penalized quantile regression. Journal of Modern Power Systems and Clean Energy, 2019, 7, 1200-1209.	5.4	15
44	GAN-based Model for Residential Load Generation Considering Typical Consumption Patterns. , 2019, , .		26
45	Fast Electromagnetic Transient Simulation Based on Hierarchical Low-Rank Approximation. , 2019, , .		1
46	Data-driven decision making in power systems with probabilistic guarantees: Theory and applications of chance-constrained optimization. Annual Reviews in Control, 2019, 47, 341-363.	7.9	73
47	Nonintrusive load monitoring in residential households with low-resolution data. Applied Energy, 2019, 252, 113283.	10.1	34
48	Quantifying the Effect of Air Conditioning Dynamics on Power System Transient Stability Limits. , 2019, , .		0
49	Nested Reinforcement Learning Based Control for Protective Relays in Power Distribution Systems. , 2019, , .		16
50	Chance-constrained Unit Commitment via the Scenario Approach. , 2019, , .		6
51	Averaging Ensembles Model for Forecasting of Short-term Load in Smart Grids. , 2019, , .		11
52	A Scenario-based Storage Planning Framework with Probabilistic Guarantees. , 2019, , .		2
53	Enhanced Real-time Electricity Price Prediction with a Novel Feature Selection Technique. , 2019, , .		3
54	Optimal power consumption for demand response of thermostatically controlled loads. Optimal Control Applications and Methods, 2019, 40, 68-84.	2.1	3

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55	Scenario-Based Economic Dispatch With Tunable Risk Levels in High-Renewable Power Systems. IEEE Transactions on Power Systems, 2019, 34, 5103-5114.	6.5	43
56	Scenario-Based Economic Dispatch With Uncertain Demand Response. IEEE Transactions on Smart Grid, 2019, 10, 1858-1868.	9.0	65
57	Revenue Inadequacy With Demand Response Providers: A Critical Appraisal. IEEE Transactions on Smart Grid, 2019, 10, 3282-3291.	9.0	4
58	A Stealthy Attack Against Electricity Market Using Independent Component Analysis. IEEE Systems Journal, 2018, 12, 297-307.	4.6	32
59	Month ahead average daily electricity price profile forecasting based on a hybrid nonlinear regression and SVM model: an ERCOT case study. Journal of Modern Power Systems and Clean Energy, 2018, 6, 281-291.	5.4	28
60	Impact of Data Quality in Home Energy Management System on Distribution System State Estimation. IEEE Access, 2018, 6, 11024-11037.	4.2	17
61	Prioritization of PMU Location and Signal Selection for Monitoring Critical Power System Oscillations. IEEE Transactions on Power Systems, 2018, 33, 3919-3929.	6.5	16
62	Mitigation of Power System Forced Oscillations: An E-STATCOM Approach. IEEE Access, 2018, 6, 31599-31608.	4.2	27
63	Decentralized Control via Dynamic Stochastic Prices: The Independent System Operator Problem. IEEE Transactions on Automatic Control, 2018, 63, 3206-3220.	5.7	13
64	VLSI architecture for exciter, governor, and stabilizer in fast power system EMT simulation. , 2018, , .		1
65	A SVM-based setting of protection relays in distribution systems. , 2018, , .		15
66	Economic Impact Assessment of Topology Data Attacks With Virtual Bids. IEEE Transactions on Smart Grid, 2018, 9, 512-520.	9.0	24
67	Calculating Steady-State Operating Conditions for DFIG-Based Wind Turbines. IEEE Transactions on Sustainable Energy, 2018, 9, 293-301.	8.8	17
68	Power Electronics Intelligence at the Grid Edge - Enables Energy Budgeting. , 2018, , .		3
69	Chance Constrained Optimal Reactive Power Dispatch. , 2018, , .		1
70	A Feature-Based Diagnosis Framework for Power Plant Model Validation. , 2018, , .		3
71	False Analog Data Injection Attack Towards Topology Errors: Formulation and Feasibility Analysis. , 2018, , .		7
72	A Coordinated Frequency Regulation Strategy for VSC-HVDC Integrated Offshore Wind Farms. , 2018, , .		15

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73	Peer-to-peer Energy Transaction in Microgrids with Power Electronics Enabled Angle Droop Control. , 2018, , .		5
74	Mean Field Games in Nudge Systems for Societal Networks. ACM Transactions on Modeling and Performance Evaluation of Computing Systems, 2018, 3, 1-31.	0.9	9
75	An Online Detection Framework for Cyber Attacks on Automatic Generation Control. IEEE Transactions on Power Systems, 2018, 33, 6816-6827.	6.5	95
76	Data Technology: The New Normal [In My View]. IEEE Power and Energy Magazine, 2018, 16, 108-106.	1.6	0
77	Online Frequency Response Identification using synchrophasor Data. , 2018, , .		0
78	Localization of forced oscillations in the power grid under resonance conditions. , 2018, , .		17
79	Reserves from Controllable Swimming Pool Pumps: Reliability Assessment and Operational Planning. , 2018, , .		8
80	Stochastic Look-Ahead Economic Dispatch With Variable Generation Resources. IEEE Transactions on Power Systems, 2017, 32, 17-29.	6.5	65
81	Architecture and Algorithms for Privacy Preserving Thermal Inertial Load Management by a Load Serving Entity. IEEE Transactions on Power Systems, 2017, 32, 3275-3286.	6.5	24
82	Robust phase detection in distribution systems. , 2017, , .		4
83	Detection of bad data in multi-area state estimation. , 2017, , .		3
84	A recursive Bayesian approach to load phase detection in unbalanced distribution system. , 2017, , .		4
85	Online Detection of Low-Quality Synchrophasor Measurements: A Data-Driven Approach. IEEE Transactions on Power Systems, 2017, 32, 2817-2827.	6.5	55
86	Impact of power system network topology errors on real-time locational marginal price. Journal of Modern Power Systems and Clean Energy, 2017, 5, 797-809.	5.4	16
87	Data Perturbation-Based Sensitivity Analysis of Real-Time Look-Ahead Economic Dispatch. IEEE Transactions on Power Systems, 2017, 32, 2072-2082.	6.5	15
88	Power electronics intelligence at the network edge (PINE). , 2017, , .		6
89	A semi-analytical method to solve chance constrained stochastic economic dispatch with demand response providers. , 2017, , .		1
90	Voltage security constrained look-ahead coordination of reactive power support devices with high renewables. , 2017, , .		1

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91	EnergyCoupon. , 2017, , .		22
92	The scenario approach for demand response providers in capacity markets. , 2017, , .		2
93	Revenue adequacy of wholesale electricity markets with demand response providers. , 2016, , .		3
94	Multi-time Scale Coordination of Distributed Energy Resources in Isolated Power Systems. IEEE Transactions on Smart Grid, 2016, , 1-1.	9.0	22
95	Guest Editorial Big Data Analytics for Grid Modernization. IEEE Transactions on Smart Grid, 2016, 7, 2395-2396.	9.0	31
96	Online identification of bad synchrophasor measurements via spatio-temporal correlations. , 2016, , .		2
97	A metric and market construct of inter-temporal flexibility in time-coupled economic dispatch. , 2016, , .		4
98	Guest Editorial The Theory of Complex Systems With Applications to Smart Grid Operations. IEEE Transactions on Smart Grid, 2016, 7, 1949-1950.	9.0	6
99	PMU-based reduced-order modeling of power system dynamics via selective modal analysis. , 2016, , .		5
100	A framework for sensitivity analysis of data errors on home energy management system. Energy, 2016, 117, 166-175.	8.8	15
101	Persistent-homology-based detection of power system low-frequency oscillations using PMUs. , 2016, , .		0
102	Learning the LMP-Load Coupling From Data: A Support Vector Machine Based Approach. IEEE Transactions on Power Systems, 2016, , 1-1.	6.5	15
103	Singular Value Sensitivity Based Optimal Control of Embedded VSC-HVDC for Steady-State Voltage Stability Enhancement. IEEE Transactions on Power Systems, 2016, 31, 216-225.	6.5	38
104	Managing System Ramp Flexibility by Utilizing Price-Responsive Demand: An Empirical Assessment. , 2016, , .		1
105	A Transient Stability Assessment Framework in Power Electronic-Interfaced Distribution Systems. IEEE Transactions on Power Systems, 2016, 31, 5106-5114.	6.5	54
106	Interactive Control of Coupled Microgrids for Guaranteed System-Wide Small Signal Stability. IEEE Transactions on Smart Grid, 2016, 7, 1088-1096.	9.0	93
107	A Metric and Market Construct of Inter-Temporal Flexibility in Time-Coupled Economic Dispatch. IEEE Transactions on Power Systems, 2016, 31, 3437-3446.	6.5	62
108	A Study on The Impact of Wind Farm Spatial Distribution on Power System Sub-Synchronous Oscillations. IEEE Transactions on Power Systems, 2016, 31, 2154-2162.	6.5	66

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109	A Two-Layered Framework for Robust Dispatch with Transmission Constraints. , 2015, , .		1
110	The ISO problem: Decentralized stochastic control via bidding schemes. , 2015, , .		2
111	A control system framework for privacy preserving demand response of thermal inertial loads. , 2015, , .		2
112	Smart Targeted Planning of VSC-Based Embedded HVDC via Line Shadow Price Weighting. IEEE Transactions on Smart Grid, 2015, 6, 431-440.	9.0	12
113	A kernel plus method for quantifying wind turbine performance upgrades. Wind Energy, 2015, 18, 1207-1219.	4.2	54
114	Automated vulnerability analysis of AC state estimation under constrained false data injection in electric power systems. , 2015, , .		15
115	A theory for the economic operation of a smart grid with stochastic renewables, demand response and storage. , 2015, , .		5
116	Guest editorial: Smart grid communications. China Communications, 2015, 12, iii-iv.	3.2	0
117	Multi-stage coupon incentive-based demand response in two-settlement electricity markets. , 2015, , .		13
118	A decomposition method for network-constrained unit commitment with AC power flow constraints. Energy, 2015, 88, 595-603.	8.8	42
119	Power Curve Estimation With Multivariate Environmental Factors for Inland and Offshore WindÂFarms. Journal of the American Statistical Association, 2015, 110, 56-67.	3.1	76
120	On transfer function modeling of price responsive demand: An empirical study. , 2015, , .		10
121	Stochastic unit commitment in a distribution system with photovoltaic power: Empirical assessment. , 2015, , .		0
122	Energy Coupon. , 2015, , .		7
123	A robust model predictive control approach to coordinating wind and storage for joint energy balancing and frequency regulation services. , 2015, , .		4
124	A reserve forecast-based approach to determining credit collateral requirements in electricity markets. , 2015, , .		0
125	A data-driven approach to identifying system pattern regions in market operations. , 2015, , .		9
126	Decentralized Multi-Area Economic Dispatch via Dynamic Multiplier-Based Lagrangian Relaxation. IEEE Transactions on Power Systems, 2015, 30, 3225-3233.	6.5	96

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127	Online Dynamic Security Assessment of Microgrid Interconnections in Smart Distribution Systems. IEEE Transactions on Power Systems, 2015, 30, 3246-3254.	6.5	75
128	Integrated dispatch of generation and load: A pathway towards smart grids. Electric Power Systems Research, 2015, 120, 206-213.	3.6	33
129	Multitime-Scale Data-Driven Spatio-Temporal Forecast of Photovoltaic Generation. IEEE Transactions on Sustainable Energy, 2015, 6, 104-112.	8.8	167
130	Energy Coupon. Performance Evaluation Review, 2015, 43, 455-456.	0.6	9
131	A layered architecture for EV charging stations based on time scale decomposition. , 2014, , .		2
132	Rectangular representation of FACTS devices in the ACOPF problem. , 2014, , .		2
133	An operating reserve risk map for quantifiable reliability performances in renewable power systems. , 2014, , .		3
134	Analysis of coupon incentive-based demand response with bounded consumer rationality. , 2014, , .		9
135	Analysis of locational marginal prices in look-ahead economic dispatch. , 2014, , .		11
136	Optimal demand response for thermal inertial loads employing stochastic renewables: A privacy respecting architecture and its continuum scaling limit. , 2014, , .		2
137	Integrating PMU-data-driven and physics-based analytics for power systems operations. , 2014, , .		0
138	Inter-area power exchange preserving multi-area economic dispatch. , 2014, , .		6
139	Fast Sensitivity Analysis Approach to Assessing Congestion Induced Wind Curtailment. IEEE Transactions on Power Systems, 2014, 29, 101-110.	6.5	62
140	Space-time wind speed forecasting for improved power system dispatch. Test, 2014, 23, 1-25.	1.1	32
141	Rejoinder on: Space-time wind speed forecasting for improved power system dispatch. Test, 2014, 23, 45-50.	1.1	3
142	Sensitivity Analysis of Real-Time Locational Marginal Price to SCADA Sensor Data Corruption. IEEE Transactions on Power Systems, 2014, 29, 1110-1120.	6.5	29
143	Dimensionality Reduction of Synchrophasor Data for Early Event Detection: Linearized Analysis. IEEE Transactions on Power Systems, 2014, 29, 2784-2794.	6.5	201
144	Short-Term Spatio-Temporal Wind Power Forecast in Robust Look-ahead Power System Dispatch. IEEE Transactions on Smart Grid, 2014, 5, 511-520.	9.0	186

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145	Robust Optimization Based Economic Dispatch for Managing System Ramp Requirement. , 2014, , .		24
146	A multi-tiered real-time pricing algorithm for electric vehicle charging stations. , 2014, , .		15
147	Power system event classification via dimensionality reduction of synchrophasor data. , 2014, , .		21
148	Potential Power Quality Benefits of Electric Vehicles. IEEE Transactions on Sustainable Energy, 2013, PP, 1-8.	8.8	71
149	Ramp-Induced Data Attacks on Look-Ahead Dispatch in Real-Time Power Markets. IEEE Transactions on Smart Grid, 2013, 4, 1235-1243.	9.0	62
150	Risk Measure Based Robust Bidding Strategy for Arbitrage Using a Wind Farm and Energy Storage. IEEE Transactions on Smart Grid, 2013, 4, 2191-2199.	9.0	127
151	Reliability Assessment at Day-Ahead Operating Stage in Power Systems with Wind Generation. , 2013, , .		4
152	Horizontal decomposition-based stochastic day-ahead reliability unit commitment. , 2013, , .		0
153	Large population optimal demand response for thermostatically controlled inertial loads. , 2013, , .		11
154	Cross-correlation study of onshore/offshore wind generation and load in Texas. , 2013, , .		5
155	Coupon Incentive-Based Demand Response: Theory and Case Study. IEEE Transactions on Power Systems, 2013, 28, 1266-1276.	6.5	287
156	Early Detection and Optimal Corrective Measures of Power System Insecurity in Enhanced Look-Ahead Dispatch. IEEE Transactions on Power Systems, 2013, 28, 1297-1307.	6.5	40
157	Impact analysis of locational marginal price subject to power system topology errors. , 2013, , .		4
158	Dimensionality reduction and early event detection using online synchrophasor data. , 2013, , .		7
159	Multi-scale integration and aggregation of power system modules for dynamic security assessment. , 2013, , .		0
160	On the optimality of de-synchronized demand response with stochastic renewables and inertial thermal loads. , 2013, , .		2
161	The role of big data in improving power system operation and protection. , 2013, , .		107
162	Coupon incentive-based demand response (CIDR) in smart grid. , 2012, , .		6

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163	Fast MPC-Based Coordination of Wind Power and Battery Energy Storage Systems. Journal of Energy Engineering - ASCE, 2012, 138, 43-53.	1.9	69
164	Targeted conversion of AC lines to DC lines for improved power system dispatch. , 2012, , .		5
165	Distributed Online Monitoring of Quasi-Static Voltage Collapse in Multi-Area Power Systems. IEEE Transactions on Power Systems, 2012, 27, 2271-2279.	6.5	32
166	A novel ARX-based multi-scale spatio-temporal solar power forecast model. , 2012, , .		4
167	Optimization of Home Energy Usage by Intelligently Charging/Discharging EV/PHEV. , 2012, , .		2
168	Fully Distributed State Estimation for Wide-Area Monitoring Systems. IEEE Transactions on Smart Grid, 2012, 3, 1154-1169.	9.0	253
169	Towards a Unified Operational Value Index of Energy Storage in Smart Grid Environment. IEEE Transactions on Smart Grid, 2012, 3, 1418-1426.	9.0	56
170	Look-ahead dispatch with forecast uncertainty and infeasibility management. , 2012, , .		7
171	Malicious ramp-induced temporal data attack in power market with look-ahead dispatch. , 2012, , .		1
172	Robust bidding strategy for wind power plants and energy storage in electricity markets. , 2012, , .		15
173	A Randomized Response Model for Privacy Preserving Smart Metering. IEEE Transactions on Smart Grid, 2012, 3, 1317-1324.	9.0	68
174	Multi-scale Integration of Physics-Based and Data-Driven Models in Power Systems. , 2012, , .		7
175	Coordinated Energy Cost Management of Distributed Internet Data Centers in Smart Grid. IEEE Transactions on Smart Grid, 2012, 3, 50-58.	9.0	146
176	Cooperative distributed state estimation: Local observability relaxed. , 2011, , .		15
177	Frequency aware economic dispatch. , 2011, , .		16
178	Fully distributed bad data processing for wide area state estimation. , 2011, , .		11
179	Look-ahead dispatch in ERCOT: Case study. , 2011, , .		15
180	Efficient Coordination of Wind Power and Price-Responsive Demandâ€”Part II: Case Studies. IEEE Transactions on Power Systems, 2011, 26, 1885-1893.	6.5	38

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181	Congestion-induced wind curtailment: Sensitivity analysis and case studies. , 2011, , .		6
182	Efficient Coordination of Wind Power and Price-Responsive Demandâ€"Part I: Theoretical Foundations. IEEE Transactions on Power Systems, 2011, 26, 1875-1884.	6.5	130
183	Optimal scheduling and operation of load aggregators with electric energy storage facing price and demand uncertainties. , 2011, , .		56
184	Power system economic dispatch with spatio-temporal wind forecasts. , 2011, , .		16
185	Optimal DG placement for congestion mitigation and social welfare maximization. , 2011, , .		5
186	Coordination of wind farms and flywheels for energy balancing and frequency regulation. , 2011, , .		21
187	Multi-time-scale modeling and analysis of energy storage in power system operations. , 2011, , .		11
188	Wind Integration in Power Systems: Operational Challenges and Possible Solutions. Proceedings of the IEEE, 2011, 99, 214-232.	21.3	320
189	Hedging Against Uncertainty: A Tale of Internet Data Center Operations Under Smart Grid Environment. IEEE Transactions on Smart Grid, 2011, 2, 555-563.	9.0	55
190	Integrity Data Attacks in Power Market Operations. IEEE Transactions on Smart Grid, 2011, 2, 659-666.	9.0	397
191	Structure-preserving dynamical model and distributed stabilisation of electricity infrastructures with renewable energy resources. International Journal of Critical Infrastructures, 2010, 6, 131.	0.2	0
192	Modeling of Future Cyberâ€"Physical Energy Systems for Distributed Sensing and Control. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 825-838.	2.9	238
193	A Decision-Making Framework and Simulator for Sustainable Electric Energy Systems. IEEE Transactions on Sustainable Energy, 2010, , .	8.8	19
194	Emission-concerned economic dispatch: Possible formulations and implementations. , 2010, , .		14
195	Minimizing Electricity Cost: Optimization of Distributed Internet Data Centers in a Multi-Electricity-Market Environment. , 2010, , .		361
196	False Data Injection Attacks in Electricity Markets. , 2010, , .		277
197	Optimal scheduling and operation of load aggregator with electric energy storage in power markets. , 2010, , .		24
198	Quantifying the impact of unscheduled line outages on Locational Marginal Prices. , 2010, , .		3

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199	Look-ahead coordination of wind energy and electric vehicles: A market-based approach. , 2010, , .		21
200	Model predictive economic/environmental dispatch of power systems with intermittent resources. , 2009, , .		111
201	Integration of intermittent resources with price-responsive loads. , 2009, , .		21
202	Model predictive dispatch in electric energy systems with intermittent resources. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	64
203	A module-based approach to integrating wind power for guaranteed power system stability. , 2008, , .		4
204	Module-Based Modeling of Cyber-Physical Power Systems. , 2008, , .		12
205	Modeling future cyber-physical energy systems. , 2008, , .		71
206	Novel Performance Index and Multi-layered Information Structure for Monitoring Quasi-static Voltage Problems. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	1
207	Critical Voltage Monitoring Using Sensitivity and Optimal Information Machine Learning. , 2006, , .		2
208	Towards Grid Modernization through Enhanced Communications and Computing: Novel Performance Index and Information Structure for Monitoring Voltage Problems. , 2006, , .		2
209	Bad-data detection in smart grid: a distributed approach. , 0, , 175-190.		1
210	A Neural Lyapunov Approach to Transient Stability Assessment in Interconnected Microgrids. , 0, , .		9