

Kwok W Cheung

List of Publications by Year in descending order

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68
papers

2,685
citations

394421

19
h-index

642732

23
g-index

70
all docs

70
docs citations

70
times ranked

2238
citing authors

#	ARTICLE	IF	CITATIONS
1	A toolbox for power system dynamics and control engineering education and research. IEEE Transactions on Power Systems, 1992, 7, 1559-1564.	6.5	437
2	Uncertainty Management in the Unit Commitment Problem. IEEE Transactions on Power Systems, 2009, 24, 642-651.	6.5	324
3	Hybrid method for short-term photovoltaic power forecasting based on deep convolutional neural network. IET Generation, Transmission and Distribution, 2018, 12, 4557-4567.	2.5	178
4	Day-ahead photovoltaic power forecasting approach based on deep convolutional neural networks and meta learning. International Journal of Electrical Power and Energy Systems, 2020, 118, 105790.	5.5	171
5	Big data analytics in smart grids: state-of-the-art, challenges, opportunities, and future directions. IET Smart Grid, 2019, 2, 141-154.	2.2	158
6	Multi-Linear Probabilistic Energy Flow Analysis of Integrated Electrical and Natural-Gas Systems. IEEE Transactions on Power Systems, 2017, 32, 1970-1979.	6.5	145
7	BC Hydro's on-line transient stability assessment (TSA) model development, analysis and post-processing. IEEE Transactions on Power Systems, 1995, 10, 241-253.	6.5	141
8	A robust optimization approach for integrated community energy system in energy and ancillary service markets. Energy, 2018, 148, 1-15.	8.8	135
9	Energy and reserve dispatch in a multi-zone electricity market. IEEE Transactions on Power Systems, 1999, 14, 913-919.	6.5	105
10	An Efficient Approach to Short-Term Load Forecasting at the Distribution Level. IEEE Transactions on Power Systems, 2016, 31, 2526-2537.	6.5	91
11	Evolution toward standardized market design. IEEE Transactions on Power Systems, 2003, 18, 460-469.	6.5	85
12	Application of functional deep belief network for estimating daily global solar radiation: A case study in China. Energy, 2020, 191, 116502.	8.8	78
13	Adaptive Robust Day-Ahead Dispatch for Urban Energy Systems. IEEE Transactions on Industrial Electronics, 2019, 66, 1379-1390.	7.9	67
14	Estimation and validation of daily global solar radiation by day of the year-based models for different climates in China. Renewable Energy, 2019, 135, 984-1003.	8.9	57
15	Toward scalable stochastic unit commitment. Energy Systems, 2015, 6, 417-438.	3.0	50
16	Identifying Optimal Energy Flow Solvability in Electricity-Gas Integrated Energy Systems. IEEE Transactions on Sustainable Energy, 2017, 8, 846-854.	8.8	50
17	Operation Strategy for Improving Voltage Profile and Reducing System Loss. IEEE Transactions on Power Delivery, 2010, 25, 390-397.	4.3	48
18	An on-line dynamic security analysis system implementation. IEEE Transactions on Power Systems, 1994, 9, 1716-1722.	6.5	32

#	ARTICLE	IF	CITATIONS
19	Ancillary Service Market design and implementation in North America: From theory to practice. , 2008, , .		31
20	Generation dispatch in a smart grid environment. , 2010, , .		28
21	Smart dispatch for large grid operations with integrated renewable resources. , 2011, , .		20
22	Four-level robust model for a virtual power plant in energy and reserve markets. IET Generation, Transmission and Distribution, 2019, 13, 2036-2043.	2.5	20
23	Robust dispatch to manage uncertainty in real time electricity markets. , 2010, , .		19
24	Probabilistic forecasting of dynamic line rating for over-head transmission lines. , 2015, , .		19
25	Corrective Security-Constrained Optimal Power and Gas Flow With Binding Contingency Identification. IEEE Transactions on Sustainable Energy, 2020, 11, 1033-1042.	8.8	19
26	A two-stage robust optimization for PJM look-ahead unit commitment. , 2013, , .		15
27	Modeling price-based decisions in advanced electricity markets. , 2012, , .		11
28	Incorporating Optimal Transmission Switching in Day-Ahead Unit Commitment and scheduling. , 2015, , .		9
29	The Application of Optimization Technology for Electricity Market Operation. , 0, , .		8
30	A practical implementation of optimal transmission switching. , 2011, , .		8
31	On selection of transmission line candidates for optimal transmission switching in large power networks. , 2013, , .		7
32	Stability Analysis of Singularly Perturbed Systems using Slow and Fast Manifolds. , 1991, , .		6
33	Intelligent On-Line Decision Support Tools For Market Operators. , 2007, , .		5
34	A pricing and dispatch engine for wholesale electricity market using Quadratic Programming. , 2008, , .		5
35	Analysis of regulating wind power for power systems. , 2009, , .		5
36	Flexible simultaneous feasibility test in energy market. , 2010, , .		5

#	ARTICLE	IF	CITATIONS
37	Economic evaluation of transmission outages and switching for market and system operations. , 2011, ,		5
38	Advanced combined-cycle modeling. , 2013, , .		5
39	Advanced Load Forecast with hierarchical forecasting capability. , 2013, , .		5
40	An efficient approach for short-term substation load forecasting. , 2013, , .		5
41	Day-Ahead Wind Speed Forecasting Using Relevance Vector Machine. Journal of Applied Mathematics, 2014, 2014, 1-6.	0.9	5
42	Incorporating dynamic line ratings in real-time dispatch of market and system operations. , 2016, , .		5
43	A historical data-driven unscented Kalman filter for distribution system state estimation. , 2017, , .		5
44	A new hybrid method for on-line dynamic security assessment. Control Engineering Practice, 1998, 6, 1373-1380.	5.5	4
45	Functional Design of Ancillary Service Markets Under the Framework of Standard Market Design for ISO New England. , 2006, , .		4
46	Voltage profile evaluation of power systems with coordinated SVC devices. , 2009, , .		4
47	MW-dependent ramp rate modeling for electricity markets. , 2010, , .		4
48	Summary of Environment Impact of Renewable Energy Resources. Advanced Materials Research, 0, 616-618, 1133-1136.	0.3	4
49	Enhancement of real-time operational efficiency by applying dynamic line ratings. , 2016, , .		4
50	Slow dynamics simulation of power systems. Sadhana - Academy Proceedings in Engineering Sciences, 1993, 18, 749-760.	1.3	3
51	A dual-space approach for pricing congestion in electricity markets. , 2010, , .		3
52	Smart dispatch for grid integration of wind generation. , 2011, , .		3
53	Forecasting real-time net interchange of electric power. , 2014, , .		3
54	Short term wind speed forecasting using wavelet transform and grey model improved by particle swarm optimization. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
55	Selection of wind farm location based on fuzzy set theory. , 2010, , .		2
56	Research and development of photovoltaic power systems in China. , 2011, , .		2
57	Voltage Impact of Photovoltaic Plant in Distributed Network. , 2012, , .		2
58	Congestion pricing in electricity markets: Infeasibility, sub-optimality and degeneracy. , 2011, , .		1
59	A Practical Robust Dispatch Algorithm for a Smarter Power Grid. , 2011, , .		1
60	New forecasting and modeling tools for operating power systems with variable energy resources. , 2014, , .		1
61	Approximate Slow Subsystems for Preserving the Conservative Property of Two-Time-Scale Power Systems. , 1990, , .		1
62	An Approach of Economic Dispatch in the Practical Hydrothermal Power System. , 2011, , .		0
63	An Enhanced Dispatch System for Wind Integration. , 2012, , .		0
64	An integrated approach to congestion management for European energy markets. , 2013, , .		0
65	Integration of line switching in energy and market management systems. , 2015, , .		0
66	Multi-Objective dynamic optimal power flow using fuzzy sets theory incorporating a carbon capture power plant. , 2015, , .		0
67	An Iterative Approach to FACTS Set Point Optimization in Day-Ahead Generation Scheduling. , 2019, , .		0
68	Photovoltaic System Power Generation Forecasting Based on Spiking Neural Network. Lecture Notes in Electrical Engineering, 2016, , 573-581.	0.4	0