Kory W Hedman

List of Publications by Year
in descending order

65 papers	2,530 citations	304368 22 h-index	288905 40 g-index
65 all docs	65 docs citations	65 times ranked	1593 citing authors

#	Article	IF	Citations
1	Optimal Transmission Switching With Contingency Analysis. IEEE Transactions on Power Systems, 2009, 24, 1577-1586.	4.6	344
2	Co-Optimization of Generation Unit Commitment and Transmission Switching With N-1 Reliability. IEEE Transactions on Power Systems, 2010, 25, 1052-1063.	4.6	327
3	Optimal Transmission Switchingâ€"Sensitivity Analysis and Extensions. IEEE Transactions on Power Systems, 2008, 23, 1469-1479.	4.6	179
4	Flexible Operation of Batteries in Power System Scheduling With Renewable Energy. IEEE Transactions on Sustainable Energy, 2016, 7, 685-696.	5.9	179
5	Economic Assessment of Energy Storage in Systems With High Levels of Renewable Resources. IEEE Transactions on Sustainable Energy, 2015, 6, 1103-1111.	5.9	144
6	A review of transmission switching and network topology optimization. , 2011, , .		127
7	Economic analysis of the N-1 reliable unit commitment and transmission switching problem using duality concepts. Energy Systems, 2010, 1, 165-195.	1.8	119
8	Robust Corrective Topology Control for System Reliability. IEEE Transactions on Power Systems, 2013, 28, 4042-4051.	4.6	69
9	Real-Time Contingency Analysis With Corrective Transmission Switching. IEEE Transactions on Power Systems, 2017, 32, 2604-2617.	4.6	67
10	Wind Power Dispatch Margin for Flexible Energy and Reserve Scheduling With Increased Wind Generation. IEEE Transactions on Sustainable Energy, 2015, 6, 1543-1552.	5.9	63
11	Dynamic Reserve Zones for Day-Ahead Unit Commitment With Renewable Resources. IEEE Transactions on Power Systems, 2015, 30, 612-620.	4.6	61
12	Topology Control for Load Shed Recovery. IEEE Transactions on Power Systems, 2014, 29, 908-916.	4.6	55
13	Computationally Efficient Adjustment of FACTS Set Points in DC Optimal Power Flow With Shift Factor Structure. IEEE Transactions on Power Systems, 2017, 32, 1733-1740.	4.6	51
14	Smart Flexible Just-in-Time Transmission and Flowgate Bidding. IEEE Transactions on Power Systems, 2011, 26, 93-102.	4.6	50
15	Optimal transmission switching: economic efficiency and market implications. Journal of Regulatory Economics, 2011, 40, 111-140.	0.8	49
16	The Role of Out-of-Market Corrections in Day-Ahead Scheduling. IEEE Transactions on Power Systems, 2015, 30, 1937-1946.	4.6	40
17	Reserve Policy Optimization for Scheduling Wind Energy and Reserve. IEEE Transactions on Power Systems, 2018, 33, 19-31.	4.6	39
18	A Detection Mechanism Against Load-Redistribution Attacks in Smart Grids. IEEE Transactions on Smart Grid, 2021, 12, 704-714.	6.2	37

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19	Towards smart corrective switching: analysis and advancement of PJM's switching solutions. IET Generation, Transmission and Distribution, 2016, 10, 1984-1992.	1.4	33
20	Reserve Requirements to Efficiently Manage Intra-Zonal Congestion. IEEE Transactions on Power Systems, 2014, 29, 251-258.	4.6	32
21	Enhanced Energy Management System With Corrective Transmission Switching Strategyâ€"Part I: Methodology. IEEE Transactions on Power Systems, 2019, 34, 4490-4502.	4.6	32
22	Enhancing Power System Cyber-Security With Systematic Two-Stage Detection Strategy. IEEE Transactions on Power Systems, 2020, 35, 1549-1561.	4.6	27
23	Market Implications and Pricing of Dynamic Reserve Policies for Systems With Renewables. IEEE Transactions on Power Systems, 2015, 30, 1593-1602.	4.6	26
24	Analyzing valid inequalities of the generation unit commitment problem. , 2009, , .		25
25	Reserve zone determination based on statistical clustering methods. , 2012, , .		24
26	Locational Reserve Disqualification for Distinct Scenarios. IEEE Transactions on Power Systems, 2015, 30, 357-364.	4.6	22
27	Harnessing Flexible Transmission: Corrective Transmission Switching for ISO-NE. IEEE Power and Energy Technology Systems Journal, 2016, 3, 109-118.	3.5	21
28	Analyzing the Impacts of Constraint Relaxation Practices in Electric Energy Markets. IEEE Transactions on Power Systems, 2016, 31, 2566-2577.	4.6	17
29	Enhanced Energy Management System With Corrective Transmission Switching Strategyâ€"Part II: Results and Discussion. IEEE Transactions on Power Systems, 2019, 34, 4503-4513.	4.6	17
30	Electric Power and Energy Engineering: The First Century. Proceedings of the IEEE, 2012, 100, 1315-1328.	16.4	16
31	An Accelerated-Decomposition Approach for Security-Constrained Unit Commitment With Corrective Network Reconfiguration. IEEE Transactions on Power Systems, 2022, 37, 887-900.	4.6	16
32	An application of high performance computing to transmission switching. , 2013, , .		15
33	Transmission expansion planning model considering conductor thermal dynamics and high temperature low sag conductors. IET Generation, Transmission and Distribution, 2015, 9, 2311-2318.	1.4	15
34	Real-Time Corrective Switching in Response to Simultaneous Contingencies. Journal of Energy Engineering - ASCE, 2015, 141, .	1.0	15
35	Enhanced Pumped Hydro Storage Utilization using Policy Functions. IEEE Transactions on Power Systems, 2016, , 1-1.	4.6	14
36	Performance of AC and DC based transmission switching heuristics on a large-scale polish system. , 2014, , .		13

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37	Joint transmission expansion planning and energy storage placement in smart grid towards efficient integration of renewable energy. , 2014, , .		12
38	Iterative transmission and distribution optimal power flow framework for enhanced utilisation of distributed resources. IET Generation, Transmission and Distribution, 2015, 9, 1089-1095.	1.4	11
39	An integrated transmission and distribution systems model with distribution-based LMP (DLMP) pricing. , 2013, , .		10
40	Zonal do-not-exceed limits with robust corrective topology control. Electric Power Systems Research, 2015, 129, 235-242.	2.1	9
41	Market Implications of Wind Reserve Margin. IEEE Transactions on Power Systems, 2018, 33, 5161-5170.	4.6	9
42	Impacts of Constraint Relaxations on Power System Operational Security. IEEE Power and Energy Technology Systems Journal, 2016, 3, 99-108.	3.5	8
43	A Data-Driven Reserve Response Set Policy for Power Systems With Stochastic Resources. IEEE Transactions on Sustainable Energy, 2019, 10, 693-705.	5.9	8
44	An Enhanced Energy Management System Including a Real-Time Load-Redistribution Threat Analysis Tool and Cyber-Physical SCED. IEEE Transactions on Power Systems, 2022, 37, 3346-3358.	4.6	8
45	Fictitious losses in the DCOPF with a piecewise linear approximation of losses. , 2013, , .		7
46	N-1 Reliable Unit Commitment via Progressive Hedging. Journal of Energy Engineering - ASCE, 2015, 141, .	1.0	7
47	A Reserve Response Set Model for Systems with Stochastic Resources. IEEE Transactions on Power Systems, 2018, 33, 4038-4049.	4.6	7
48	Fast heuristics for transmission outage coordination. , 2016, , .		6
49	Market implications of reliability unit commitment formulations for Day-Ahead scheduling. , 2014, , .		5
50	Market pricing with singleâ€generatorâ€failure security constraints. IET Generation, Transmission and Distribution, 2017, 11, 1777-1785.	1.4	5
51	Gas and Electric Grid Unit Commitment with Coordinated N-1 Generator Contingency Analysis. , 2018, , .		5
52	An Enhanced Security-Constrained Unit Commitment Model with Reserve Response Set Policies. , 2017, , .		5
53	A data-driven heuristic for corrective transmission switching. , 2016, , .		4
54	Evaluation of the adjustable-speed pumped hydro storage in systems with renewable resources. , 2016, , .		4

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55	Enhanced Assessment of Power System Behavior during Multiple Contingencies. , 2018, , .		4
56	Identifying an Exploitable Structure for the Core Problem of Load-Redistribution Attack Problems. , 2019, , .		4
57	Market implications and pricing of dynamic reserve policies for systems with renewables. , 2015, , .		3
58	Risk-based penalty price determination procedure for transmission constraint relaxations. , 2016, , .		2
59	Pricing Implications of Transmission Security Modeling In Electric Energy Markets. , 2019, , .		2
60	The effects of extended locational marginal pricing in wholesale electricity markets. , 2013, , .		1
61	Flexible operation of batteries in power system scheduling with renewable energy. , 2016, , .		1
62	Real-time contingency analysis with corrective transmission switching. , 2017, , .		1
63	Enhancing System Security via Out-of-Market Correction Procedures. , 2018, , .		1
64	Conditions for Ramp Rates Causing Uplift. , 2019, , .		1
65	A computational comparison of PTDF-based and phase-angle-based formulations of network constraints in distributed unit commitment. Energy Systems, 0, , 1.	1.8	0