Duncan S Callaway

List of Publications by Year
in descending order

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59 papers	4,481 citations	361045 20 h-index	315357 38 g-index
59 all docs	59 docs citations	59 times ranked	3174 citing authors

#	Article	IF	Citations
1	Achieving Controllability of Electric Loads. Proceedings of the IEEE, 2011, 99, 184-199.	16.4	862
2	Decentralized Charging Control of Large Populations of Plug-in Electric Vehicles. IEEE Transactions on Control Systems Technology, 2013, 21, 67-78.	3.2	742
3	Tapping the energy storage potential in electric loads to deliver load following and regulation, with application to wind energy. Energy Conversion and Management, 2009, 50, 1389-1400.	4.4	618
4	State Estimation and Control of Electric Loads to Manage Real-Time Energy Imbalance. IEEE Transactions on Power Systems, 2013, 28, 430-440.	4.6	472
5	Arbitraging Intraday Wholesale Energy Market Prices With Aggregations of Thermostatic Loads. IEEE Transactions on Power Systems, 2015, 30, 763-772.	4.6	179
6	Decentralized charging control for large populations of plug-in electric vehicles. , 2010, , .		154
7	Understanding Small-Signal Stability of Low-Inertia Systems. IEEE Transactions on Power Systems, 2021, 36, 3997-4017.	4.6	133
8	Decentralized charging control for large populations of plug-in electric vehicles: Application of the Nash certainty equivalence principle. , 2010, , .		116
9	Real-Time Charging Strategies for an Electric Vehicle Aggregator to Provide Ancillary Services. IEEE Transactions on Smart Grid, 2018, 9, 5141-5151.	6.2	104
10	Sequential Reliability Forecasting for Wind Energy: Temperature Dependence and Probability Distributions. IEEE Transactions on Energy Conversion, 2010, 25, 577-585.	3.7	88
11	State Estimation and Control of Heterogeneous Thermostatically Controlled Loads for Load Following. , 2012, , .		83
12	Power systems without fuel. Renewable and Sustainable Energy Reviews, 2016, 57, 1322-1336.	8.2	78
13	Model-Free Optimal Control of VAR Resources in Distribution Systems: An Extremum Seeking Approach. IEEE Transactions on Power Systems, 2016, 31, 3583-3593.	4.6	72
14	Modeling Variability and Uncertainty of Photovoltaic Generation: A Hidden State Spatial Statistical Approach. IEEE Transactions on Power Systems, 2015, 30, 2965-2973.	4.6	54
15	Experimental Demonstration of Frequency Regulation by Commercial Buildingsâ€”Part II: Results and Performance Evaluation. IEEE Transactions on Smart Grid, 2018, 9, 3224-3234.	6.2	53
16	Toward Distributed Energy Services: Decentralizing Optimal Power Flow With Machine Learning. IEEE Transactions on Smart Grid, 2020, 11, 1296-1306.	6.2	53
17	Inequitable access to distributed energy resources due to grid infrastructure limits in California. Nature Energy, 2021, 6, 892-903.	19.8	53
18	Strategic siting and regional grid interconnections key to low-carbon futures in African countries. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3004-E3012.	3.3	48

#	Article	IF	Citations
19	Competitive energy storage in the presence of renewables. IEEE Transactions on Power Systems, 2013, 28, 985-996.	4.6	40
20	Optimal dispatch of reactive power for voltage regulation and balancing in unbalanced distribution systems. , 2016, , .		37
21	Wasserstein Distributionally Robust Look-Ahead Economic Dispatch. IEEE Transactions on Power Systems, 2021, 36, 2010-2022.	4.6	36
22	MPC-Based Fast Frequency Control of Voltage Source Converters in Low-Inertia Power Systems. IEEE Transactions on Power Systems, 2022, 37, 3209-3220.	4.6	31
23	Least-cost targets and avoided fossil fuel capacity in Indiaâ€™s pursuit of renewable energy. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	24
24	Power quality and modern energy for all. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16308-16313.	3.3	22
25	Can smaller loads be profitably engaged in power system services?. , 2011, , .		21
26	Linear Single- and Three-Phase Voltage Forecasting and Bayesian State Estimation With Limited Sensing. IEEE Transactions on Power Systems, 2020, 35, 1674-1683.	4.6	20
27	Achieving controllability of plug-in electric vehicles. , 2009, , .		18
28	Decarbonizing Space and Water Heating in Temperate Climates: The Case for Electrification. Atmosphere, 2019, 10, 435.	1.0	18
29	The Impact of State of Charge Management When Providing Regulation Power With Energy Storage. IEEE Transactions on Power Systems, 2014, 29, 1433-1434.	4.6	17
30	Dynamic and Distributed Online Convex Optimization for Demand Response of Commercial Buildings. , 2020, 4, 632-637.		17
31	Consolidated Dynamic Pricing of Power System Regulation. IEEE Transactions on Power Systems, 2013, 28, 4692-4700.	4.6	16
32	PowerSystems.jl â€” A power system data management package for large scale modeling. SoftwareX, 2021, 15, 100747.	1.2	16
33	Distributed Resources Shift Paradigms on Power System Design, Planning, and Operation: An Application of the GAP Model. Proceedings of the IEEE, 2019, 107, 1906-1922.	16.4	15
34	Price and capacity competition in balancing markets with energy storage. Energy Systems, 2017, 8, 169-197.	1.8	14
35	Controlling distributed energy constrained resources for power system ancillary services. , 2010, , .		12
36	Data-driven Control Design Schemes in Active Distribution Grids: Capabilities and Challenges. , 2019, , .		12

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37	Griddle: Video Gaming for Power System Education. IEEE Transactions on Power Systems, 2017, 32, 3069-3077.	4.6	11
38	Transient Simulations With a Large Penetration of Converter-Interfaced Generation: Scientific Computing Challenges And Opportunities. IEEE Electrification Magazine, 2021, 9, 72-82.	1.8	11
39	Indirect load control for electricity market risk management via risk-limiting dynamic contracts. , 2015, , .		10
40	Review and Perspectives on Data Sharing and Privacy in Expanding Electricity Access. Proceedings of the IEEE, 2019, 107, 1803-1819.	16.4	9
41	A Critical Exploration of the Efficiency Impacts of Demand Response From HVAC in Commercial Buildings. Proceedings of the IEEE, 2020, 108, 1623-1639.	16.4	9
42	Frequency Regulation using Data-Driven Controllers in Power Grids with Variable Inertia due to Renewable Energy. , 2019, , .		7
43	Optimal Sizing and Tuning of Storage Capacity for Fast Frequency Control in Low-Inertia Systems. , 2019, , .		7
44	Computational experiment design for operations model simulation. Electric Power Systems Research, 2020, 189, 106680.	2.1	7
45	Enhanced MPC for Fast Frequency Control in Inverter-Dominated Power Systems. , 2020, , .		7
46	Grid Forming Inverter Small Signal Stability: Examining Role of Line and Voltage Dynamics. , 2020, , .		7
47	Pricing and Energy Trading in Peer-to-Peer Zero Marginal-Cost Microgrids. IEEE Transactions on Smart Grid, 2022, 13, 702-714.	6.2	7
48	Estimating the probability of load curtailment in power systems with responsive distributed storage. , 2010, , .		6
49	A Multi-Stage Stochastic Risk Assessment With Markovian Representation of Renewable Power. IEEE Transactions on Sustainable Energy, 2022, 13, 414-426.	5.9	6
50	Continuous-time echo state networks for predicting power system dynamics. Electric Power Systems Research, 2022, 212, 108562.	2.1	5
51	Inventory control of storage in distribution systems. , 2012, , .		4
52	Modeling the effect of geographically diverse pv generation on California's distribution system. , 2013, , .		4
53	Optimal electricity tariff design with demand-side investments. Energy Systems, 2020, 11, 551-579.	1.8	4
54	Online Convex Optimization With Binary Constraints. IEEE Transactions on Automatic Control, 2021, 66, 6164-6170.	3.6	4

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55	Direct load control for electricity market risk management via risk-limiting dynamic contracts. , 2014, , .		3
56	Parameterizing fluctuations in solar photovoltaic generation using Hidden Markov Models. , 2013, , .		2
57	Variance-Constrained Risk Sharing in Stochastic Systems. IEEE Transactions on Automatic Control, 2017, 62, 1865-1879.	3.6	2
58	Dynamic pricing in consolidated ancillary service markets. , 2013, , .		1
59	Generation Expansion Analysis in Low Data Settings. , 2018, , .		0