

D Wu

List of Publications by Year in descending order

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64
papers

2,606
citations

304368

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301761

39
g-index

85
all docs

85
docs citations

85
times ranked

2312
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed and communication-efficient solutions to linear equations with special sparse structure. Systems and Control Letters, 2022, 160, 105065.	1.3	1
2	Deep Reinforcement Learning From Demonstrations to Assist Service Restoration in Islanded Microgrids. IEEE Transactions on Sustainable Energy, 2022, 13, 1062-1072.	5.9	30
3	A techno-economic assessment framework for hydrogen energy storage toward multiple energy delivery pathways and grid services. Energy, 2022, 249, 123638.	4.5	26
4	Approximate dynamic programming with policy-based exploration for microgrid dispatch under uncertainties. International Journal of Electrical Power and Energy Systems, 2022, 142, 108359.	3.3	9
5	Optimal operation and sizing of pumped thermal energy storage for net benefits maximization. IET Generation, Transmission and Distribution, 2022, 16, 3509-3521.	1.4	1
6	Operating a Commercial Building HVAC Load as a Virtual Battery Through Airflow Control. IEEE Transactions on Sustainable Energy, 2021, 12, 158-168.	5.9	29
7	Simulation-based performance evaluation of model predictive control for building energy systems. Applied Energy, 2021, 281, 116027.	5.1	40
8	An economic assessment of behind-the-meter photovoltaics paired with batteries on the Hawaiian Islands. Applied Energy, 2021, 286, 116550.	5.1	13
9	Modeling and Optimization Methods for Controlling and Sizing Grid-Connected Energy Storage: A Review. Current Sustainable/Renewable Energy Reports, 2021, 8, 123-130.	1.2	8
10	Experimental investigation on thermal inertia characterization of commercial buildings for demand response. Energy and Buildings, 2021, 252, 111384.	3.1	6
11	An Evaluation of the Economic and Resilience Benefits of a Microgrid in Northampton, Massachusetts. Energies, 2020, 13, 4802.	1.6	7
12	Flexibility Estimation and Control of Thermostatically Controlled Loads With Lock Time for Regulation Service. IEEE Transactions on Smart Grid, 2020, 11, 3221-3230.	6.2	20
13	Scheduling and Control of Flexible Building Loads for Grid Services based on a Virtual Battery Model. IFAC-PapersOnLine, 2020, 53, 13333-13338.	0.5	5
14	Experimental Validation of Approximate Dynamic Programming Based optimization and Convergence on Microgrid Applications. , 2020, , .		2
15	Building Battery Energy Storage System Performance Data into an Economic Assessment. , 2020, , .		1
16	A Real-Time Greedy-Index Dispatching Policy for Using PEVs to Provide Frequency Regulation Service. IEEE Transactions on Smart Grid, 2019, 10, 864-877.	6.2	17
17	Power Factor Correction in Feeders With Distributed Photovoltaics Using Residential Appliances as Virtual Batteries. IEEE Access, 2019, 7, 99115-99122.	2.6	11
18	A hierarchical charging control of plug-in electric vehicles with simple flexibility model. Applied Energy, 2019, 253, 113490.	5.1	43

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19	Validation on aggregate flexibility from residential air conditioning systems for building-to-grid integration. <i>Energy and Buildings</i> , 2019, 200, 58-67.	3.1	23
20	Distributed Energy Resource Coordination Over Time-Varying Directed Communication Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2019, 6, 1124-1134.	2.4	53
21	A survey of distributed optimization. <i>Annual Reviews in Control</i> , 2019, 47, 278-305.	4.4	427
22	A Data-driven Control Method for Operating the Commercial HVAC Load as a Virtual Battery. , 2019, , .		2
23	Impacts of Lock-off Time on Virtual Battery Model from Thermostatically Controlled Loads. , 2019, , .		1
24	Opportunities for Joint Water-€Energy Management: Sensitivity of the 2010 Western U.S. Electricity Grid Operations to Climate Oscillations. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 299-312.	1.7	29
25	Optimal Coordination of Building Loads and Energy Storage for Power Grid and End User Services. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 4335-4345.	6.2	119
26	Synchronization of Coupled Dynamical Systems: Tolerance to Weak Connectivity and Arbitrarily Bounded Time-Varying Delays. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 1791-1797.	3.6	37
27	Optimization Methods for Evaluating PEV Charging Considering Customer Behavior. , 2018, , .		5
28	Accelerated Distributed Energy Management for Microgrids. , 2018, , .		13
29	Communication-efficient Distributed Solutions to a System of Linear Equations with Laplacian Sparse Structure. , 2018, , .		5
30	Regional Assessment of Virtual Battery Potential from Building Loads. , 2018, , .		8
31	Assigning value to energy storage systems at multiple points in an electrical grid. <i>Energy and Environmental Science</i> , 2018, 11, 1926-1944.	15.6	76
32	Comparative Implementation of High Performance Computing for Power System Dynamic Simulations. <i>IEEE Transactions on Smart Grid</i> , 2017, 8, 1387-1395.	6.2	39
33	Hierarchical control framework for integrated coordination between distributed energy resources and demand response. <i>Electric Power Systems Research</i> , 2017, 150, 45-54.	2.1	19
34	Distributed Optimal Coordination for Distributed Energy Resources in Power Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , 2017, 14, 414-424.	3.4	64
35	Evaluating transactive controls of integrated transmission and distribution systems using the Framework for Network Co-Simulation. , 2017, , .		16
36	Distributed Optimal Dispatch of Distributed Energy Resources Over Lossy Communication Networks. <i>IEEE Transactions on Smart Grid</i> , 2017, 8, 3125-3137.	6.2	59

#	ARTICLE	IF	CITATIONS
37	A Distributed Algorithm for Economic Dispatch Over Time-Varying Directed Networks With Delays. IEEE Transactions on Industrial Electronics, 2017, 64, 5095-5106.	5.2	183
38	On Parallelizing Single Dynamic Simulation Using HPC Techniques and APIs of Commercial Software. IEEE Transactions on Power Systems, 2017, 32, 2225-2233.	4.6	20
39	Theoretical framework for integrating distributed energy resources into distribution systems. , 2017, , .		1
40	Cooperative optimal coordination for distributed energy resources. , 2017, , .		9
41	Analytical sizing methods for behind-the-meter battery storage. Journal of Energy Storage, 2017, 12, 297-304.	3.9	29
42	Distributed coordination of energy storage with distributed generators. , 2016, , .		17
43	Cooperative management of a lithium-ion battery energy storage network: A distributed MPC approach. , 2016, , .		6
44	Vulnerability of the US western electric grid to hydro-climatological conditions: How bad can it get?. Energy, 2016, 115, 1-12.	4.5	65
45	Distributed load shedding over directed communication networks with time delays. , 2016, , .		2
46	Quantifying impacts of heat waves on power grid operation. Applied Energy, 2016, 183, 504-512.	5.1	53
47	Economic analysis and optimal sizing for behind-the-meter battery storage. , 2016, , .		40
48	Minimum-Time Consensus-Based Approach for Power System Applications. IEEE Transactions on Industrial Electronics, 2016, 63, 1318-1328.	5.2	85
49	Impacts of time delays on distributed algorithms for economic dispatch. , 2015, , .		7
50	Implementation of Parallel Dynamic Simulation on Shared-Memory vs. Distributed-Memory Environments. IFAC-PapersOnLine, 2015, 48, 221-226.	0.5	7
51	A modified priority list-based MILP method for solving large-scale unit commitment problems. , 2015, , .		1
52	An energy storage assessment: Using optimal control strategies to capture multiple services. , 2015, , .		61
53	On the configuration of the US Western Interconnection voltage stability boundary. , 2014, , .		3
54	Uncertainty-based estimation of the secure range for ISO New England dynamic interchange adjustment. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
55	Modeling light-duty plug-in electric vehicles for national energy and transportation planning. Energy Policy, 2013, 63, 419-432.	4.2	17
56	Parallel implementation of power system dynamic simulation. , 2013, , .		7
57	Development of an agent-based distribution test feeder with smart-grid functionality. , 2012, , .		10
58	Intelligent Residential Air-Conditioning System With Smart-Grid Functionality. IEEE Transactions on Smart Grid, 2012, 3, 2240-2251.	6.2	51
59	Load Scheduling and Dispatch for Aggregators of Plug-In Electric Vehicles. IEEE Transactions on Smart Grid, 2012, 3, 368-376.	6.2	339
60	Potential impacts of aggregator-controlled plug-in electric vehicles on distribution systems. , 2011, , .		13
61	On the Choice Between Uncontrolled and Controlled Charging by Owners of PHEVs. IEEE Transactions on Power Delivery, 2011, 26, 2882-2884.	2.9	44
62	Electric Energy and Power Consumption by Light-Duty Plug-In Electric Vehicles. IEEE Transactions on Power Systems, 2011, 26, 738-746.	4.6	225
63	Hierarchical control for hybrid wind systems. , 2009, , .		0
64	Bidirectional Power Transfer between HEVs and Grid without External Power Converters. , 2008, , .		2