

Andreas Ulbig

List of Publications by Year in descending order

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43
papers

2,668
citations

759055

12
h-index

1058333

14
g-index

43
all docs

43
docs citations

43
times ranked

2786
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of Lithium-Ion Battery Degradation for Cell Life Assessment. IEEE Transactions on Smart Grid, 2018, 9, 1131-1140.	6.2	600
2	Impact of Low Rotational Inertia on Power System Stability and Operation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7290-7297.	0.4	486
3	Analyzing operational flexibility of electric power systems. International Journal of Electrical Power and Energy Systems, 2015, 72, 155-164.	3.3	226
4	Review of grid applications with the Zurich 1MW battery energy storage system. Electric Power Systems Research, 2015, 120, 128-135.	2.1	153
5	Reducing peak electricity demand in building climate control using real-time pricing and model predictive control. , 2010, , .		135
6	Unified System-Level Modeling of Intermittent Renewable Energy Sources and Energy Storage for Power System Operation. IEEE Systems Journal, 2012, 6, 140-151.	2.9	127
7	Defining a degradation cost function for optimal control of a battery energy storage system. , 2013, , .		105
8	Optimal Placement and Sizing of Distributed Battery Storage in Low Voltage Grids Using Receding Horizon Control Strategies. IEEE Transactions on Power Systems, 2018, 33, 2383-2394.	4.6	96
9	On operational flexibility in power systems. , 2012, , .		74
10	Power and energy capacity requirements of storages providing frequency control reserves. , 2013, , .		63
11	BESS Control Strategies for Participating in Grid Frequency Regulation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4024-4029.	0.4	55
12	Empirical Analysis of the Merit-Order Effect and the Missing Money Problem in Power Markets With High RES Shares. IEEE Transactions on Power Systems, 2015, 30, 1560-1570.	4.6	54
13	Energy storage in power system operation: The power nodes modeling framework. , 2010, , .		53
14	Analyzing Rotational Inertia, Grid Topology and their Role for Power System Stability. IFAC-PapersOnLine, 2015, 48, 541-547.	0.5	41
15	Analyzing operational flexibility of electric power systems. , 2014, , .		38
16	Predictive control for real-time frequency regulation and rotational inertia provision in power systems. , 2013, , .		33
17	Explicit nonlinear predictive control for a magnetic levitation system. Asian Journal of Control, 2010, 12, 434-442.	1.9	26
18	General frequency control with aggregated control reserve capacity from time-varying sources: The case of PHEVs. , 2010, , .		26

#	ARTICLE	IF	CITATIONS
19	Impacts of dynamic line rating on power dispatch performance and grid integration of renewable energy sources. , 2013, , .		25
20	Framework for Multiple Time-Scale Cascaded MPC Application in Power Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10472-10480.	0.4	23
21	Building control and storage management with dynamic tariffs for shaping demand response. , 2011, , .		21
22	Forecasting of Smart Meter Time Series Based on Neural Networks. Lecture Notes in Computer Science, 2017, , 10-21.	1.0	20
23	Optimal planning of distribution grids considering active power curtailment and reactive power control. , 2016, , .		18
24	A new frequency control reserve framework based on energy-constrained units. , 2014, , .		15
25	Explicit solutions for nonlinear model predictive control: A linear mapping approach. , 2007, , .		14
26	Electricity grid in-feed from renewable sources: A risk for pumped-storage hydro plants?. , 2011, , .		13
27	Towards an optimal activation pattern of tertiary control reserves in the power system of Switzerland. , 2012, , .		13
28	Towards variable end-consumer electricity tariffs reflecting marginal costs: A benchmark tariff. , 2010, , .		12
29	Grid-constrained optimal predictive power dispatch in large multi-level power systems with renewable energy sources, and storage devices. , 2014, , .		12
30	Impact of Frequency Control Reserve Provision by Storage Systems on Power System Operation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4038-4043.	0.4	12
31	N ¹ security assessment incorporating the flexibility offered by dynamic line rating. , 2016, , .		12
32	Impacts of forecast accuracy on grid integration of renewable energy sources. , 2013, , .		11
33	Generating Stochastic Residential Load Profiles from Smart Meter Data for an Optimal Power Matching at an Aggregate Level. , 2018, , .		10
34	The role of aggregation in power system simulation. , 2015, , .		9
35	Revisiting the merit-order effect of renewable energy sources. , 2015, , .		8
36	Unsupervised Learning Methods for Power System Data Analysis. , 2018, , 107-124.		6

#	ARTICLE	IF	CITATIONS
37	Assessment of capacity factor and dispatch flexibility of concentrated solar power units. , 2013, , .		5
38	Operational Flexibility of Power Systems. , 2017, , 201-216.		5
39	Role of Power System Flexibility. , 2014, , 227-238.		4
40	Model Predictive Frequency Control employing stability constraints. , 2015, , .		4
41	Grid integration costs of fluctuating renewable energy sources. , 2014, , .		3
42	Explicit model predictive control for a magnetic levitation system. , 2008, , .		1
43	Towards more cost-effective PV connection request assessments via time-series-based grid simulation and analysis. CIREC - Open Access Proceedings Journal, 2017, 2017, 2560-2563.	0.1	1