

Ujjwol Tamrakar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1679273/publications.pdf>

Version: 2024-02-01

38
papers

1,372
citations

1162367

8
h-index

1473754

9
g-index

38
all docs

38
docs citations

38
times ranked

1236
citing authors

#	ARTICLE	IF	CITATIONS
1	Microgrid Stability Definitions, Analysis, and Examples. IEEE Transactions on Power Systems, 2020, 35, 13-29.	4.6	422
2	Virtual Inertia: Current Trends and Future Directions. Applied Sciences (Switzerland), 2017, 7, 654.	1.3	410
3	Review of Challenges and Research Opportunities for Voltage Control in Smart Grids. IEEE Transactions on Power Systems, 2019, 34, 2790-2801.	4.6	270
4	Efficiency and Reliability Analyses of AC and 380 V DC Distribution in Data Centers. IEEE Access, 2018, 6, 63305-63315.	2.6	42
5	Improving transient stability of photovoltaic-hydro microgrids using virtual synchronous machines. , 2015, , .		39
6	Model Predictive Frequency Control of Low Inertia Microgrids. , 2019, , .		22
7	Comparative Analysis of Current Control Techniques to Support Virtual Inertia Applications. Applied Sciences (Switzerland), 2018, 8, 2695.	1.3	19
8	Optimization-Based Fast-Frequency Estimation and Control of Low-Inertia Microgrids. IEEE Transactions on Energy Conversion, 2021, 36, 1459-1468.	3.7	18
9	Online learning control for harmonics reduction based on current controlled voltage source power inverters. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 447-457.	8.5	15
10	Real-Time Estimation of Microgrid Inertia and Damping Constant. IEEE Access, 2021, 9, 114523-114534.	2.6	13
11	Reduction of energy consumption of virtual synchronous machine using supplementary adaptive dynamic programming. , 2016, , .		12
12	Frequency Response in Grids with High Penetration of Renewable Energy Sources. , 2018, , .		12
13	Efficiency analysis of AC coupled and DC coupled microgrids considering load profile variations. , 2016, , .		9
14	Data-Driven Power Electronic Converter Modeling for Low Inertia Power System Dynamic Studies. , 2020, , .		9
15	Convolutional Neural Network-based Inertia Estimation using Local Frequency Measurements. , 2021, , .		7
16	Experimental verification of virtual inertia in diesel generator based microgrids. , 2017, , .		6
17	Evaluation of Probing Signals for Implementing Moving Horizon Inertia Estimation in Microgrids. , 2021, , .		6
18	Current control techniques for applications in virtual synchronous machines. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
19	SEPIC converter with wide bandgap semiconductor for PV battery charger. , 2017, , .		4
20	Adaptive droop-based active power curtailment method for overvoltage prevention in low voltage distribution network. , 2017, , .		4
21	Real-time Operation of a Data Center as Virtual Power Plant Considering Battery Lifetime. , 2018, , .		4
22	Modeling Inverters with Grid Support Functions for Power System Dynamics Studies. , 2021, , .		4
23	Linear Quadratic Regulator Controller to Improve Transient Frequency Stability Through Virtual Inertia. , 2020, , .		4
24	Inertia Estimation in Power Systems using Energy Storage and System Identification Techniques. , 2020, , .		3
25	A steady-state equivalent model of solid state transformers for voltage regulation studies. , 2017, , .		2
26	Virtual Inertia Emulation using Commercial Off-The-Shelf Inverters. , 2018, , .		2
27	Model Predictive Integrated Voltage and Frequency Support in Microgrids. , 2021, , .		2
28	Optimization-Based Estimation of Microgrid Equivalent Parameters for Voltage and Frequency Dynamics. , 2021, , .		2
29	Overvoltage Prevention and Curtailment Reduction Using Adaptive Droop-Based Supplementary Control in Smart Inverters. Applied Sciences (Switzerland), 2021, 11, 7900.	1.3	2
30	Modeling of photobioreactors for remote microgrids. , 2016, , .		1
31	Modeling Hydro Power System Frequency Dynamics for Virtual Inertia Emulation. , 2019, , .		1
32	Computationally Efficient Partitioned Modeling of Inverter Dynamics with Grid Support Functions. , 2021, , .		1
33	A Model Predictive Approach for Voltage Support in Microgrids using Energy Storage Systems. , 2021, , .		1
34	Design of online supplementary adaptive dynamic programming for current control in power electronic systems. , 2017, , .		0
35	Parallel operation of virtual synchronous machines with frequency droop control. , 2017, , .		0
36	Impact of Battery Operating Conditions on Remote Microgrid's Energy Management System. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
37	Model Predictive Dispatch of Energy Storage for Voltage Regulation in Active Distribution Systems. , 2021, , .		0
38	Optimization-Based Fast-Frequency Estimation and Control of Low-Inertia Microgrids. , 2021, , .		0