

Lin Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

1,173
citations

304743

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all docs

62
docs citations

62
times ranked

1200
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrating Transactive Energy Into Reliability Evaluation for a Self-Healing Distribution System With Microgrid. IEEE Transactions on Sustainable Energy, 2022, 13, 122-134.	8.8	20
2	Pulsar-Calibrated Timing Source for Synchronized Sampling. IEEE Transactions on Smart Grid, 2022, 13, 1654-1657.	9.0	6
3	Forced Oscillation Grid Vulnerability Analysis and Mitigation Using Inverter-Based Resources: Texas Grid Case Study. Energies, 2022, 15, 2819.	3.1	0
4	A Fast and Accurate Transient Stability Assessment Method Based on Deep Learning: WECC Case Study. , 2022, , .		2
5	Planned Islanding Algorithm Design Based on Multiple Sub-Microgrids With Dynamic Boundary. IEEE Open Access Journal of Power and Energy, 2021, 8, 389-398.	3.4	4
6	A Comprehensive Method to Mitigate Forced Oscillations in Large Interconnected Power Grids. IEEE Access, 2021, 9, 22503-22515.	4.2	14
7	Adding power of artificial intelligence to situational awareness of large interconnections dominated by inverter-based resources. High Voltage, 2021, 6, 924-937.	4.7	5
8	Deep Learning-Based Adaptive Remedial Action Scheme with Security Margin for Renewable-Dominated Power Grids. Energies, 2021, 14, 6563.	3.1	2
9	A Smart and Flexible Microgrid With a Low-Cost Scalable Open-Source Controller. IEEE Access, 2021, 9, 162214-162230.	4.2	12
10	Online Tuning of Dynamic Equivalents for Large-Scale Power Systems Using Wide-area Measurements. , 2021, , .		0
11	Quasi-Static Time Series Fatigue Simulation for PV Inverter Semiconductors with Long-Term Solar Profile. , 2021, , .		1
12	Resilience Evaluation of Advanced Distribution Grids with Self-healing Control, Microgrid and Transactable Reactive Power. , 2021, , .		2
13	Impact of Self-healing Control on Reliability Evaluation in Distribution System with Microgrid. , 2021, , .		0
14	Learning Heterogeneous Features Jointly: A Deep End-to-End Framework for Multi-Step Short-Term Wind Power Prediction. IEEE Transactions on Sustainable Energy, 2020, 11, 1761-1772.	8.8	28
15	UPS: Unified PMU-Data Storage System to Enhance T+D PMU Data Usability. IEEE Transactions on Smart Grid, 2020, 11, 739-748.	9.0	18
16	Parameter extraction of solar photovoltaic models with an either-or teaching learning based algorithm. Energy Conversion and Management, 2020, 224, 113395.	9.2	29
17	Dynamic Equivalence of Large-Scale Power Systems Based on Boundary Measurements. , 2020, , .		9
18	Aging Effect Analysis of PV Inverter Semiconductors for Ancillary Services Support. IEEE Open Journal of Industry Applications, 2020, 1, 157-170.	6.5	3

#	ARTICLE	IF	CITATIONS
19	Parameter extraction of solar photovoltaic models via quadratic interpolation learning differential evolution. Sustainable Energy and Fuels, 2020, 4, 5595-5608.	4.9	12
20	FNET/GridEye: A Tool for Situational Awareness of Large Power Interconnection Grids. , 2020, , .		7
21	Dynamic Model Reduction for Large-Scale Power Systems Using Wide-Area Measurements. IEEE Access, 2020, 8, 97863-97872.	4.2	4
22	Quantitative Evaluation of Reliability Improvement: Case Study on a Self-healing Distribution System. , 2020, , .		3
23	Winner-leading competitive swarm optimizer with dynamic Gaussian mutation for parameter extraction of solar photovoltaic models. Energy Conversion and Management, 2020, 206, 112450.	9.2	49
24	A Data-driven Approach to Grid Impedance Identification for Impedance-based Stability Analysis under Different Frequency Ranges. , 2019, , .		8
25	A Distributed Power System Control Architecture for Improved Distribution System Resiliency. IEEE Access, 2019, 7, 9957-9970.	4.2	52
26	An Adaptive Wide-Area Damping Controller via FACTS for the New York State Grid Using a Measurement-Driven Model. , 2019, , .		4
27	Enhancing Distribution System Monitoring and Resiliency: A Sensor Placement Optimization Tool (SPOT). , 2019, , .		4
28	Two-stage EMS for distribution network under defensive islanding. IET Generation, Transmission and Distribution, 2019, 13, 4073-4080.	2.5	2
29	Modified Search Strategies Assisted Crossover Whale Optimization Algorithm with Selection Operator for Parameter Extraction of Solar Photovoltaic Models. Remote Sensing, 2019, 11, 2795.	4.0	28
30	Development of a Converter Based Microgrid Test Platform. , 2019, , .		9
31	Regional Area Protection Scheme for Modern Distribution System. IEEE Transactions on Smart Grid, 2019, 10, 5416-5426.	9.0	9
32	Hierarchical control system for a flexible microgrid with dynamic boundary: design, implementation and testing. IET Smart Grid, 2019, 2, 669-676.	2.2	6
33	Impact of GPS Signal Loss and Its Mitigation in Power System Synchronized Measurement Devices. IEEE Transactions on Smart Grid, 2018, 9, 1141-1149.	9.0	69
34	Real-Time Control and Operation for a Flexible Microgrid with Dynamic Boundary. , 2018, , .		22
35	A Deep End-to-End Model for Transient Stability Assessment With PMU Data. IEEE Access, 2018, 6, 65474-65487.	4.2	36
36	Wind Speed Prediction with Spatio-temporal Correlation: A Deep Learning Approach. Energies, 2018, 11, 705.	3.1	83

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37	Battery and backup generator sizing for a resilient microgrid under stochastic extreme events. IET Generation, Transmission and Distribution, 2018, 12, 4443-4450.	2.5	44
38	Coordination of SMES, SFCL and Distributed Generation Units for Micro-Grid Stability Enhancement via Wireless Communications. IEEE Access, 2018, 6, 36699-36710.	4.2	12
39	ARMAX-Based Transfer Function Model Identification Using Wide-Area Measurement for Adaptive and Coordinated Damping Control. IEEE Transactions on Smart Grid, 2017, 8, 1105-1115.	9.0	64
40	Comparison of Superconducting Fault Current Limiter and Dynamic Voltage Restorer for LVRT Improvement of High Penetration Microgrid. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-7.	1.7	33
41	Wind Generation Systems including Energy Storage. International Journal of Rotating Machinery, 2017, 2017, 1-2.	0.8	4
42	Active power control of solar PV generation for large interconnection frequency regulation and oscillation damping. International Journal of Energy Research, 2016, 40, 353-361.	4.5	28
43	A method for online relay coordination verification using setting comparison. , 2016, , .		0
44	Adaptive and coordinated oscillation damping control using measurement-driven approach. , 2016, , .		1
45	Comparison of MIMO system identification methods for electromechanical oscillation damping estimation. , 2016, , .		2
46	Adaptive wide-area damping control using measurement-driven model considering random time delay and data packet loss. , 2016, , .		9
47	Coordinated Control of SFCL and SMES for Transient Performance Improvement of Microgrid With Multiple DG Units. Canadian Journal of Electrical and Computer Engineering, 2016, 39, 158-167.	2.0	21
48	Supplementary automatic generation control using controllable energy storage in electric vehicle battery swapping stations. IET Generation, Transmission and Distribution, 2016, 10, 1107-1116.	2.5	45
49	Potential Compensation Method for Restraining the DC Bias of Transformers During HVDC Monopolar Operation. IEEE Transactions on Power Delivery, 2016, 31, 103-111.	4.3	54
50	HVDC Ground Return Current Modeling in AC Systems Considering Mutual Resistances. IEEE Transactions on Power Delivery, 2016, 31, 165-173.	4.3	35
51	Design and implementation of a measurement-based adaptive wide-area damping controller considering time delays. Electric Power Systems Research, 2016, 130, 1-9.	3.6	37
52	A Novel, Stable, and Economic Power Sharing Scheme for an Autonomous Microgrid in the Energy Internet. Energies, 2015, 8, 12741-12764.	3.1	28
53	A measurement-based control input-output signal selection approach to damp inter-area oscillations. , 2015, , .		2
54	Study of a Modified Flux-Coupling-Type Superconducting Fault Current Limiter for Mitigating the Effect of DC Short Circuit in a VSC-HVDC System. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1525-1534.	1.8	26

#	ARTICLE	IF	CITATIONS
55	A survey on next-generation power grid data architecture. , 2015, , .		10
56	Research on branches group based method for adding mutual inductance branches to Y-matrix and Z-matrix. , 2014, , .		3
57	IEC 61850-Based Information Model and Configuration Description of Communication Network in Substation Automation. IEEE Transactions on Power Delivery, 2014, 29, 97-107.	4.3	39
58	Divisional fault diagnosis of large-scale power systems based on radial basis function neural network and fuzzy integral. Electric Power Systems Research, 2013, 105, 9-19.	3.6	40
59	Supplementary automatic generation control using electric vehicle battery swapping stations. , 2013, , .		1
60	A New Approach to Fault Diagnosis of Power Systems Using Fuzzy Reasoning Spiking Neural P Systems. Mathematical Problems in Engineering, 2013, 2013, 1-13.	1.1	31
61	Standard Function Blocks for Flexible IED in IEC 61850-Based Substation Automation. IEEE Transactions on Power Delivery, 2011, 26, 1101-1110.	4.3	37
62	Research on Digital Simulation Platform for Networked Substation. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	5