

# Lin Zhu

## List of Publications by Year in descending order

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62  
papers

1,173  
citations

304743

22  
h-index

414414

32  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1200  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wind Speed Prediction with Spatio-temporal Correlation: A Deep Learning Approach. <i>Energies</i> , 2018, 11, 705.	3.1	83
2	Impact of GPS Signal Loss and Its Mitigation in Power System Synchronized Measurement Devices. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 1141-1149.	9.0	69
3	ARMAX-Based Transfer Function Model Identification Using Wide-Area Measurement for Adaptive and Coordinated Damping Control. <i>IEEE Transactions on Smart Grid</i> , 2017, 8, 1105-1115.	9.0	64
4	Potential Compensation Method for Restraining the DC Bias of Transformers During HVDC Monopolar Operation. <i>IEEE Transactions on Power Delivery</i> , 2016, 31, 103-111.	4.3	54
5	A Distributed Power System Control Architecture for Improved Distribution System Resiliency. <i>IEEE Access</i> , 2019, 7, 9957-9970.	4.2	52
6	Winner-leading competitive swarm optimizer with dynamic Gaussian mutation for parameter extraction of solar photovoltaic models. <i>Energy Conversion and Management</i> , 2020, 206, 112450.	9.2	49
7	Supplementary automatic generation control using controllable energy storage in electric vehicle battery swapping stations. <i>IET Generation, Transmission and Distribution</i> , 2016, 10, 1107-1116.	2.5	45
8	Battery and backup generator sizing for a resilient microgrid under stochastic extreme events. <i>IET Generation, Transmission and Distribution</i> , 2018, 12, 4443-4450.	2.5	44
9	Divisional fault diagnosis of large-scale power systems based on radial basis function neural network and fuzzy integral. <i>Electric Power Systems Research</i> , 2013, 105, 9-19.	3.6	40
10	IEC 61850-Based Information Model and Configuration Description of Communication Network in Substation Automation. <i>IEEE Transactions on Power Delivery</i> , 2014, 29, 97-107.	4.3	39
11	Standard Function Blocks for Flexible IED in IEC 61850-Based Substation Automation. <i>IEEE Transactions on Power Delivery</i> , 2011, 26, 1101-1110.	4.3	37
12	Design and implementation of a measurement-based adaptive wide-area damping controller considering time delays. <i>Electric Power Systems Research</i> , 2016, 130, 1-9.	3.6	37
13	A Deep End-to-End Model for Transient Stability Assessment With PMU Data. <i>IEEE Access</i> , 2018, 6, 65474-65487.	4.2	36
14	HVDC Ground Return Current Modeling in AC Systems Considering Mutual Resistances. <i>IEEE Transactions on Power Delivery</i> , 2016, 31, 165-173.	4.3	35
15	Comparison of Superconducting Fault Current Limiter and Dynamic Voltage Restorer for LVRT Improvement of High Penetration Microgrid. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-7.	1.7	33
16	A New Approach to Fault Diagnosis of Power Systems Using Fuzzy Reasoning Spiking Neural P Systems. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-13.	1.1	31
17	Parameter extraction of solar photovoltaic models with an either-or teaching learning based algorithm. <i>Energy Conversion and Management</i> , 2020, 224, 113395.	9.2	29
18	A Novel, Stable, and Economic Power Sharing Scheme for an Autonomous Microgrid in the Energy Internet. <i>Energies</i> , 2015, 8, 12741-12764.	3.1	28

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	Real-Time Control and Operation for a Flexible Microgrid with Dynamic Boundary. , 2018, , .		22
24	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
25	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
26	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
27	A Comprehensive Method to Mitigate Forced Oscillations in Large Interconnected Power Grids. IEEE Access, 2021, 9, 22503-22515.	4.2	14
28	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
29	Parameter extraction of solar photovoltaic models <i>via</i> quadratic interpolation learning differential evolution. Sustainable Energy and Fuels, 2020, 4, 5595-5608.	4.9	12
30	A Smart and Flexible Microgrid With a Low-Cost Scalable Open-Source Controller. IEEE Access, 2021, 9, 162214-162230.	4.2	12
31	A survey on next-generation power grid data architecture. , 2015, , .		10
32	Adaptive wide-area damping control using measurement-driven model considering random time delay and data packet loss. , 2016, , .		9
33	Development of a Converter Based Microgrid Test Platform. , 2019, , .		9
34	Regional Area Protection Scheme for Modern Distribution System. IEEE Transactions on Smart Grid, 2019, 10, 5416-5426.	9.0	9
35	Dynamic Equivalence of Large-Scale Power Systems Based on Boundary Measurements. , 2020, , .		9
36	A Data-driven Approach to Grid Impedance Identification for Impedance-based Stability Analysis under Different Frequency Ranges. , 2019, , .		8

#	ARTICLE	IF	CITATIONS
37	FNET/GridEye: A Tool for Situational Awareness of Large Power Interconnection Grids. , 2020, , .		7
38	Hierarchical control system for a flexible microgrid with dynamic boundary: design, implementation and testing. IET Smart Grid, 2019, 2, 669-676.	2.2	6
39	Pulsar-Calibrated Timing Source for Synchronized Sampling. IEEE Transactions on Smart Grid, 2022, 13, 1654-1657.	9.0	6
40	Research on Digital Simulation Platform for Networked Substation. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	5
41	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
42	Wind Generation Systems including Energy Storage. International Journal of Rotating Machinery, 2017, 2017, 1-2.	0.8	4
43	An Adaptive Wide-Area Damping Controller via FACTS for the New York State Grid Using a Measurement-Driven Model. , 2019, , .		4
44	Enhancing Distribution System Monitoring and Resiliency: A Sensor Placement Optimization Tool (SPOT). , 2019, , .		4
45	Dynamic Model Reduction for Large-Scale Power Systems Using Wide-Area Measurements. IEEE Access, 2020, 8, 97863-97872.	4.2	4
46	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
47	Research on branches group based method for adding mutual inductance branches to Y-matrix and Z-matrix. , 2014, , .		3
48	Aging Effect Analysis of PV Inverter Semiconductors for Ancillary Services Support. IEEE Open Journal of Industry Applications, 2020, 1, 157-170.	6.5	3
49	Quantitative Evaluation of Reliability Improvement: Case Study on a Self-healing Distribution System. , 2020, , .		3
50	A measurement-based control input-output signal selection approach to damp inter-area oscillations. , 2015, , .		2
51	Comparison of MIMO system identification methods for electromechanical oscillation damping estimation. , 2016, , .		2
52	Two-stage EMS for distribution network under defensive islanding. IET Generation, Transmission and Distribution, 2019, 13, 4073-4080.	2.5	2
53	Deep Learning-Based Adaptive Remedial Action Scheme with Security Margin for Renewable-Dominated Power Grids. Energies, 2021, 14, 6563.	3.1	2
54	Resilience Evaluation of Advanced Distribution Grids with Self-healing Control, Microgrid and Transactable Reactive Power. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
55	A Fast and Accurate Transient Stability Assessment Method Based on Deep Learning: WECC Case Study. , 2022, , .		2
56	Supplementary automatic generation control using electric vehicle battery swapping stations. , 2013, , .		1
57	Adaptive and coordinated oscillation damping control using measurement-driven approach. , 2016, , .		1
58	Quasi-Static Time Series Fatigue Simulation for PV Inverter Semiconductors with Long-Term Solar Profile. , 2021, , .		1
59	A method for online relay coordination verification using setting comparison. , 2016, , .		0
60	Online Tuning of Dynamic Equivalents for Large-Scale Power Systems Using Wide-area Measurements. , 2021, , .		0
61	Impact of Self-healing Control on Reliability Evaluation in Distribution System with Microgrid. , 2021, , .		0
62	Forced Oscillation Grid Vulnerability Analysis and Mitigation Using Inverter-Based Resources: Texas Grid Case Study. Energies, 2022, 15, 2819.	3.1	0