

Yanbo Wang

List of Publications by Year in descending order

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76
papers

1,262
citations

471509

17
h-index

414414

32
g-index

76
all docs

76
docs citations

76
times ranked

941
citing authors

#	ARTICLE	IF	CITATIONS
1	Harmonic Instability Assessment Using State-Space Modeling and Participation Analysis in Inverter-Fed Power Systems. IEEE Transactions on Industrial Electronics, 2017, 64, 806-816.	7.9	193
2	Small-Signal Stability Analysis of Inverter-Fed Power Systems Using Component Connection Method. IEEE Transactions on Smart Grid, 2018, 9, 5301-5310.	9.0	117
3	An Estimator-Based Distributed Voltage-Predictive Control Strategy for AC Islanded Microgrids. IEEE Transactions on Power Electronics, 2015, 30, 3934-3951.	7.9	90
4	Distributed Optimal Control of Reactive Power and Voltage in Islanded Microgrids. IEEE Transactions on Industry Applications, 2017, 53, 340-349.	4.9	58
5	Reference Submodule Based Capacitor Monitoring Strategy for Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2019, 34, 4711-4721.	7.9	57
6	Fault Diagnosis and System Reconfiguration Strategy of Single-phase Three Level Neutral-Point-Clamped Cascaded Inverter. IEEE Transactions on Industry Applications, 2019, , 1-1.	4.9	49
7	Protection Scheme for Modular Multilevel Converters Under Diode Open-Circuit Faults. IEEE Transactions on Power Electronics, 2018, 33, 2866-2877.	7.9	32
8	Effect of Reactive Power Characteristic of Offshore Wind Power Plant on Low-Frequency Stability. IEEE Transactions on Energy Conversion, 2020, 35, 837-853.	5.2	31
9	Submodule Capacitance Monitoring Strategy for Phase-Shifted Carrier Pulsewidth-Modulation-Based Modular Multilevel Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 8753-8767.	7.9	31
10	Efficiency-Prioritized Droop Control Strategy of AC Microgrid. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2936-2950.	5.4	30
11	Unified SVPWM Algorithm and Optimization for Single-Phase Three-Level NPC Converters. IEEE Transactions on Power Electronics, 2020, 35, 7702-7712.	7.9	29
12	Zero-Voltage Switching Full-Bridge T-Type DC/DC Converter with Wide Input Voltage Range and Balanced Switch Currents. IEEE Transactions on Power Electronics, 2018, 33, 10449-10466.	7.9	28
13	Lifetime-Oriented Droop Control Strategy for AC Islanded Microgrids. IEEE Transactions on Industry Applications, 2019, 55, 3252-3263.	4.9	28
14	Enhanced Hierarchical Control Framework of Microgrids With Efficiency Improvement and Thermal Management. IEEE Transactions on Energy Conversion, 2021, 36, 11-22.	5.2	26
15	Harmonic Quantitative Analysis for Dead-Time Effects in SPWM Inverters. IEEE Access, 2019, 7, 43143-43152.	4.2	23
16	A Hierarchical Control Strategy of Microgrids toward Reliability Enhancement. , 2018, , .		21
17	New Perspectives on Power Control of AC Microgrid Considering Operation Cost and Efficiency. IEEE Transactions on Power Systems, 2021, 36, 4844-4847.	6.5	20
18	A Unified Distributed Control Strategy for Hybrid Cascaded-Parallel Microgrid. IEEE Transactions on Energy Conversion, 2019, 34, 2029-2040.	5.2	19

#	ARTICLE	IF	CITATIONS
19	A Gray-Box Hierarchical Oscillatory Instability Source Identification Method of Multiple-Inverter-Fed Power Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3095-3113.	5.4	19
20	Optimization of Centralized Equalization Systems Based on an Integrated Cascade Bidirectional DC-DC Converter. IEEE Transactions on Industrial Electronics, 2022, 69, 249-259.	7.9	19
21	Impedance-Decoupled Modeling Method of Multiport Transmission Network in Inverter-Fed Power Plant. IEEE Transactions on Industry Applications, 2020, 56, 611-621.	4.9	17
22	Impacts of Inductor Nonlinear Characteristic in Multiconverter Microgrids: Modeling, Analysis, and Mitigation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3333-3347.	5.4	17
23	Estimator-based multiobjective robust control strategy for an active pantograph in high-speed railways. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 1064-1077.	2.0	15
24	Frequency scanning-based stability analysis method for grid-connected inverter system. , 2017, , .		13
25	Harmonic resonance assessment of multiple paralleled grid-connected inverters system. , 2017, , .		13
26	Fuzzy Inference NSGA-III Algorithm-Based Multi-Objective Optimization for Switched Reluctance Generator. IEEE Transactions on Energy Conversion, 2021, 36, 3578-3581.	5.2	13
27	A Novel Renewable Microgrid-Enabled Metro Traction Power Systemâ€™ Concepts, Framework, and Operation Strategy. IEEE Transactions on Transportation Electrification, 2021, 7, 1733-1749.	7.8	13
28	A Gray-Box Parameters Identification Method of Voltage Source Converter Using Vector Fitting Algorithm. , 2019, , .		13
29	State-space-based harmonic stability analysis for paralleled grid-connected inverters. , 2016, , .		12
30	Capacitor monitoring for modular multilevel converters. , 2017, , .		12
31	Robust Droop Control of AC Microgrid Against Nonlinear Characteristic of Inductor. , 2019, , .		11
32	Balanced Power Device Currents Based Modulation Strategy for Full-Bridge Three-Level DC/DC Converter. IEEE Transactions on Power Electronics, 2020, 35, 2008-2022.	7.9	11
33	ZVZCS Full-Bridge Three-Level DC/DC Converter With Reduced Device Count. IEEE Transactions on Power Electronics, 2020, 35, 9965-9970.	7.9	11
34	Double Half-Bridge Submodule-Based Modular Multilevel Converters With Reduced Voltage Sensors. IEEE Transactions on Power Electronics, 2021, 36, 3643-3648.	7.9	11
35	A Robust Circuit and Controller Parametersâ€™ Identification Method of Grid-Connected Voltage-Source Converters Using Vector Fitting Algorithm. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2748-2763.	5.4	11
36	Harmonic stability analysis of inverter-fed power systems using Component Connection Method. , 2016, , .		9

#	ARTICLE	IF	CITATIONS
37	<i>DQ</i> impedanceâ€decoupled network modelâ€based stability analysis of offshore wind power plant under weak grid conditions. IET Power Electronics, 2020, 13, 2715-2729.	2.1	9
38	Electromagnetic Oscillation Origin Location in Multiple-Inverter-Based Power Systems Using Components Impedance Frequency Responses. IEEE Open Journal of the Industrial Electronics Society, 2021, 2, 1-20.	6.8	8
39	Data-Driven Virtual Inertia Control Method of Doubly Fed Wind Turbine. Energies, 2021, 14, 5572.	3.1	8
40	Modular multilevel converters based variable speed wind turbines for grid faults. , 2016, , .		7
41	Distributed optimal control of reactive power and voltage in islanded microgrids. , 2016, , .		7
42	Decoupled Multi-Port Impedance Modelling Method of Transmission Network in Inverter-Fed Power Plant. , 2018, , .		7
43	Adaptive Droop Control Strategy of Autonomous Microgrid for Efficiency Improvement. , 2019, , .		7
44	Optimization of Active and Reactive Power Dispatch among Multi-Paralleled Grid-Connected Inverters Considering Low-Frequency Stability. , 2019, , .		7
45	Principle and Topology Derivation of Integrated Cascade Bidirectional Converters for Centralized Charge Equalization Systems. IEEE Transactions on Power Electronics, 2021, , 1-1.	7.9	7
46	DQ Impedance Reshaping of Three-Phase Power-Controlled Grid-Connected Inverter for Low-Frequency Stability Improvement Under Weak Grid Condition. , 2020, , .		7
47	Harmonic stability analysis of offshore wind farm with component connection method. , 2017, , .		6
48	Reduced-Order Modelling Method of Grid-Connected Inverter with Long Transmission Cable. , 2018, , .		6
49	Advanced sensorless power control strategy of renewable microgrids for reliability enhancement. Applied Energy, 2019, 255, 113850.	10.1	6
50	A Gray-Box Impedance Reshaping Method of Grid-Connected Inverter for Resonance Damping. , 2019, , .		6
51	A Buck Converter with Cost-Effective GaN/Si Hybrid Switches and CRM Operation for High-Efficiency and High-Power-Density Applications. , 2018, , .		5
52	A Novel DC Microgrid-enabled Metro Traction Power System. , 2020, , .		5
53	Dynamic droop scheme considering effect of intermittent renewable energy source. , 2016, , .		4
54	Impedance-Based Modelling Method for Length-Scalable Long Transmission Cable for Stability Analysis of Grid-Connected Inverter. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
55	A Bidirectional Isolated Multiport DC-DC Converter for DC grid. , 2021, , .		3
56	Robust state estimation for double pantographs with random missing measurements in high-speed railway. , 2016, , .		2
57	Novel topology of three-phase electric spring and its control. , 2017, , .		2
58	Triple-Phase-Shift Control Strategy for Full-Bridge Three-Level (FBTL) DC/DC Converter. , 2018, , .		2
59	Lifetime-Oriented Droop Control Strategy for AC Islanded Microgrids. , 2018, , .		2
60	A Modified DQ Impedance Model of Three-Phase Grid-Connected Inverter-Grid System Considering Coupling between Inverter and Grid. , 2020, , .		2
61	Frequency Scanning-Based Contributions Identification of Current Control Loop and PLL on DQ Impedance Characteristics of Three-Phase Grid-Connected Inverter. , 2020, , .		2
62	Time-Varying Modelling and Stability Analysis Method of Grid-Connected Inverter under the Long-Term Operation. , 2020, , .		2
63	A Renewable Electricity-Hydrogen-Integrated Hybrid DC Traction Power System. , 2021, , .		2
64	Model Predictive Control Strategy for NPC Converter-based Wind Turbine with Switching Frequency Control. , 2021, , .		2
65	A Robust Voltage Sensorless Droop Control Strategy of Microgrid Against Parameters Perturbation. , 2020, , .		1
66	Stability Analysis of Wind Power Plant with Reactive Power Compensation Device Considering Parameter Perturbation. , 2021, , .		1
67	Artificial Neural Network-based Intelligent Grid Impedance Identification Method for Grid-Connected Inverter. , 2022, , .		1
68	Architecture-Oriented Assurance Technology in Microgrid. , 2010, , .		0
69	Full-Bridge T-type Isolated DC/DC Converter with Wide Input Voltage Range. , 2018, , .		0
70	A Compound Repetitive Control Strategy of H14 Three-level Inverter for Bearing Current Suppression in Wind Power System. , 2021, , .		0
71	An Iterative Parameter Tuning Method for Robot Joint Motor's Sliding Mode Controller. Lecture Notes in Electrical Engineering, 2020, , 629-637.	0.4	0
72	Efficiency Modelling and Analysis of Multi-bus Microgrid with Transmission Network. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
73	A Comparative Study of Modulation Strategies for Diode-Clamped Full-Bridge Three-Level Isolated DC/DC Converter. , 2020, , .		0
74	Collaborative Optimal Scheduling Strategy of Regional Integrated Energy System. , 2021, , .		0
75	A Nonlinear Stability Analysis Method of Grid-Connected Inverter. , 2021, , .		0
76	A Novel Fault-Tolerant Control Strategy for Dual Active Bridge Converter under Open Circuit Fault. , 2022, , .		0