Dongsheng Yang

List of Publications by Year
in descending order

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52	2,771	331670	526287
papers	citations	21 h-index	27 g-index

53	53	53	2132
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Small-Signal Modeling and Parameters Design for Virtual Synchronous Generators. IEEE Transactions on Industrial Electronics, 2016, 63, 4292-4303.	7.9	494
2	Distributed Power-Generation Systems and Protection. Proceedings of the IEEE, 2017, 105, 1311-1331.	21.3	413
3	Impedance Shaping of the Grid-Connected Inverter with LCL Filter to Improve Its Adaptability to the Weak Grid Condition. IEEE Transactions on Power Electronics, 2014, 29, 5795-5805.	7.9	392
4	Synthesis of Multiple-Input DC/DC Converters. IEEE Transactions on Power Electronics, 2010, 25, 2372-2385.	7.9	250
5	A Real-Time Computation Method With Dual Sampling Mode to Improve the Current Control Performance of the LCL-Type Grid-Connected Inverter. IEEE Transactions on Industrial Electronics, 2015, 62, 4563-4572.	7.9	170
6	Adaptive Reactive Power Control of PV Power Plants for Improved Power Transfer Capability Under Ultra-Weak Grid Conditions. IEEE Transactions on Smart Grid, 2019, 10, 1269-1279.	9.0	95
7	One-Cycle Control for a Double-Input DC/DC Converter. IEEE Transactions on Power Electronics, 2012, 27, 4646-4655.	7.9	93
8	Symmetrical PLL for SISO Impedance Modeling and Enhanced Stability in Weak Grids. IEEE Transactions on Power Electronics, 2020, 35, 1473-1483.	7.9	90
9	Control Techniques for LCL-Type Grid-Connected Inverters. CPSS Power Electronics Series, 2018, , .	0.2	83
10	Unified Modular State-Space Modeling of Grid-Connected Voltage-Source Converters. IEEE Transactions on Power Electronics, 2020, 35, 9700-9715.	7.9	55
11	Improved DC-Link Voltage Regulation Strategy for Grid-Connected Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 4977-4987.	7.9	55
12	Injected Grid Current Quality Improvement for a Voltage-Controlled Grid-Connected Inverter. IEEE Transactions on Power Electronics, 2018, 33, 1247-1258.	7.9	54
13	Neutral Point Voltage Ripple Suppression for a Three-Phase Four-Wire Inverter With an Independently Controlled Neutral Module. IEEE Transactions on Industrial Electronics, 2017, 64, 2608-2619.	7.9	50
14	Sideband Harmonic Instability of Paralleled Inverters With Asynchronous Carriers. IEEE Transactions on Power Electronics, 2018, 33, 4571-4577.	7.9	49
15	DQ-Frame Impedance Measurement of Three-Phase Converters Using Time-Domain MIMO Parametric Identification. IEEE Transactions on Power Electronics, 2021, 36, 2131-2142.	7.9	43
16	Artificial Neural Network Based Identification of Multi-Operating-Point Impedance Model. IEEE Transactions on Power Electronics, 2021, 36, 1231-1235.	7.9	33
17	Impact Analysis and Mitigation of Synchronization Dynamics for DQ Impedance Measurement. IEEE Transactions on Power Electronics, 2019, 34, 8797-8807.	7.9	32
18	Suppression of synchronous resonance for VSGs. Journal of Engineering, 2017, 2017, 2574-2579.	1.1	30

#	Article	IF	Citations
19	Coupled-Inductor-Based DC Current Measurement Technique for Transformerless Grid-Tied Inverters. IEEE Transactions on Power Electronics, 2018, 33, 18-23.	7.9	28
20	The Impact of PLL Dynamics on the Low Inertia Power Grid: A Case Study of Bonaire Island Power System. Energies, 2019, 12, 1259.	3.1	28
21	SISO Impedance-Based Stability Analysis for System-Level Small-Signal Stability Assessment of Large-Scale Power Electronics-Dominated Power Systems. IEEE Transactions on Sustainable Energy, 2022, 13, 537-550.	8.8	25
22	Multiple-input full bridge dc/dc converter. , 2009, , .		16
23	Real-time impedance-based stability assessment of grid converter interactions. , 2017, , .		16
24	Step-by-step controller design of voltage closed-loop control for virtual synchronous generator. , 2015, , .		15
25	Frequency Coupling Suppression Control Strategy for Single-Phase Grid-Tied Inverters in Weak Grid. IEEE Transactions on Industrial Electronics, 2022, 69, 8926-8938.	7.9	15
26	Recursive SISO Impedance Modeling of Single-Phase Voltage Source Rectifiers. IEEE Transactions on Power Electronics, 2021, , 1-1.	7.9	13
27	Isolated Multiple-Input DC/DC Converter Using Alternative Pulsating Source as Building Cells. , 2010, , .		12
28	Improved delayed signal cancellation-based SRF-PLL for unbalanced grid. , 2017, , .		12
29	Using virtual impedance network to improve the control performances of LCL-type grid-connected inverter under the weak grid condition. , 2014, , .		11
30	Harmonic current control for LCL-filtered VSCs connected to ultra-weak grids. , 2017, , .		10
31	Impact of Synchronization Phase Dynamics on DQ Impedance Measurement. , 2018, , .		8
32	A systematic method for generating multiple-input DC/DC converters. , 2008, , .		7
33	Interleaved dual-edge modulation scheme for double-input converter to minimize inductor current ripple. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	7
34	Modeling, analysis and design for hybrid power systems with dual-input DC/DC converter. , 2009, , .		7
35	Investigation of the sideband effect for the LCL-type grid-connected inverter with high LCL resonance frequency. , 2017, , .		7
36	Adaptive reactive power control of PV power plants for improved power transfer capability under ultra-weak grid conditions. , 2017, , .		7

#	Article	IF	Citations
37	Fast Power Control for VSCs to Enhance the Synchronization Stability in Ultra-Weak Grids. , 2018, , .		7
38	Transfer Learning for Identifying Impedance Estimation in Voltage Source Inverters. , 2020, , .		7
39	Complex-Vector PLL for Enhanced Synchronization with Weak Power Grids. , 2018, , .		5
40	Parametric Identification of DQ Impedance Model for Three-Phase Voltage-Source Converters. , 2018, , .		4
41	Accurate Open-Loop Impedance Model of Single-Phase Voltage Source Inverter (VSI) Considering the Dead-Time Effects. , 2019, , .		4
42	Stability Influence of Filter Components Parasitic Resistance on LCL-Filtered Grid Converters. , 2018, , .		3
43	Identification of the DQ Impedance Model for Three-Phase Power Converter Considering the Coupling Effect of the Grid Impedance. , 2019, , .		3
44	Generalized Impedance-Based Stability Analysis for System- Level Small-Signal Stability Assessment of Large-Scale Power Electronics-Dominated Power Systems. , 2021, , .		3
45	Weighted-Feedforward Scheme of Grid Voltages for the Three-Phase LCL-Type Grid-Connected Inverters Under Weak Grid Condition. CPSS Power Electronics Series, 2018, , 249-270.	0.2	2
46	Impact of Nonlinear Dynamics on Converter DQ Impedance Measurement. , 2019, , .		2
47	General power control methods for distributed generation sources and its stability analysis based on unified power models. , 2016, , .		1
48	Impedance Shaping of LCL-Type Grid-Connected Inverter to Improve Its Adaptability to Weak Grid. CPSS Power Electronics Series, 2018, , 227-248.	0.2	1
49	Closed-loop Elimination of Low-order Sideband Harmonics in Parallel-Connected Low-Pulse Ratio VSIs. , 2018, , .		1
50	Small-Signal Model of STATCOM and Its Model Validation. , 2018, , .		1
51	Reduction of Computation Delay for Improving Stability and Control Performance of LCL-Type Grid-Connected Inverters. CPSS Power Electronics Series, 2018, , 197-225.	0.2	0
52	Modeling and Analysis of 2nd Harmonic Interaction for VSC with Transformer under Saturation Condition. , 2018, , .		0