Bin Yang

List of Publications by Citations

60 papers	383 citations	11 h-index	16 g-index
98 ext. papers	573 ext. citations	3.9 avg, IF	3.95 L-index

#	Paper	IF	Citations
60	An Improved Capacitor Voltage-Balancing Method for Five-Level Diode-Clamped Converters With High Modulation Index and High Power Factor. *IEEE Transactions on Power Electronics*, **2016**, 31, 3189-3202	7.2	32
59	Low-Order Circulating Current Suppression of PWM-Based Modular Multilevel Converters Using DC-Link Voltage Compensation. *IEEE Transactions on Power Electronics*, **2018**, 33, 210-225	7.2	28
58	Overall control scheme for VSC-based medium-voltage DC power distribution networks. *IET Generation, Transmission and Distribution*, **2018**, 12, 1438-1445	2.5	22
57	Hybrid Resonant ZVZCS PWM Full-Bridge Converter for Large Photovoltaic Parks Connecting to MVDC Grids. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2017**, 5, 1078-1090	5.6	21
56	A Fully Modular Control Strategy for Input-Series Output-Parallel (ISOP) Inverter System Based on Positive Output-Voltage-Amplitude Gradient. *IEEE Transactions on Power Electronics*, **2018**, 33, 2878-2887	7.2	19
55	A Simple Modulation Scheme With Zero Common-Mode Voltage and Improved Efficiency for Direct Matrix Converter-Fed PMSM Drives. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 8, 3712-3722	5.6	17
54	A Resonant ZVZCS DC–DC Converter With Two Uneven Transformers for an MVDC Collection System of Offshore Wind Farms. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 7886-7895	8.9	16
53	An Improved Hybrid Modulation Method for the Single-Phase H6 Inverter With Reactive Power Compensation. *IEEE Transactions on Power Electronics*, **2018**, 33, 7674-7683	7.2	14
52	Hierarchical control strategy for MVDC distribution network under large disturbance. *IET Generation, Transmission and Distribution*, **2018**, 12, 2557-2565	2.5	12
51	An Improved Current Control Strategy Based on Particle Swarm Optimization and Steady-State Error Correction for SAPF. *IEEE Transactions on Industry Applications*, **2019**, 55, 4268-4274	4.3	11
50	Spatial and Temporal Optimization Strategy for Plug-In Electric Vehicle Charging to Mitigate Impacts on Distribution Network. *Energies*, **2018**, 11, 1373	3.1	11
49	Steady-State Error Suppression and Simplified Implementation of Direct Source Current Control for Matrix Converter With Model Predictive Control. *IEEE Transactions on Power Electronics*, **2020**, 35, 3183-3194	7.2	11
48	Unified Digital Phase-Locked Loop With Multiple Complex Resonators for Both Single- and Three-Phase Grid Synchronization. *IEEE Access*, **2017**, 5, 24810-24818	3.5	10
47	A Dynamic Model and Modified One-Cycle Control of Three-Level Front-End Rectifier for Neutral Point Voltage Balance. *IEEE Access*, **2017**, 5, 2000-2010	3.5	9
46	Design of a Four-Branch LCL-Type Grid-Connecting Interface for a Three-Phase, Four-Leg Active Power Filter. *Energies*, **2015**, 8, 1606-1627	3.1	9
45	Harmonic Stability Analysis for Multi-Parallel Inverter-Based Grid-Connected Renewable Power System Using Global Admittance. *Energies*, **2019**, 12, 2687	3.1	9
44	Turn-Off Transient of Superjunction SOI Lateral IGBTs: Mechanism and Optimization Strategy. *IEEE Transactions on Electron Devices*, **2019**, 66, 1409-1415	2.9	9

43	Design and Implementation of Novel Multi-Converter-Based Unified Power Quality Conditioner for Low-Voltage High-Current Distribution System. *Energies*, **2018**, 11, 3150	3.1	9
42	Safe-triggering-region control scheme for suppressing cross current in static transfer switch. *Electric Power Systems Research*, **2015**, 125, 245-253	3.5	7
41	An improved PSO algorithm for high accurate parameter identification of PV model **2017**,		7
40	Four-port solid-state transformer based on hybrid MMC with enhanced dual half-bridge submodules. *IET Power Electronics*, **2020**, 13, 2432-2441	2.2	7
39	Optimization of ${V}_{text{CE}}$ Plateau for Deep-Oxide Trench SOI Lateral IGBT During Inductive Load Turn-OFF. *IEEE Transactions on Electron Devices*, **2018**, 65, 3862-3868	2.9	6
38	Improved hybrid modular multilevel converter with enhanced fault ride-through capability and fast pre-charging strategies. *IET Power Electronics*, **2019**, 12, 1400-1412	2.2	5
37	Decoupled Current Controller Based on Reduced Order Generalized Integrator for Three-Phase Grid-Connected VSCs in Distributed System. *Energies*, **2019**, 12, 2426	3.1	5
36	Load modeling method for EV charging stations based on trip chain **2017**,		5
35	A Modular Multilevel Dual Buck Inverter With Adjustable Discontinuous Modulation. *IEEE Access*, **2020**, 8, 31693-31709	3.5	4
34	Control Strategy for Dynamic Voltage Restorer Under Distorted and Unbalanced Voltage Conditions **2019**,		4
33	Resonance Detection Strategy for Multi-Parallel Inverter-Based Grid-Connected Renewable Power System Using Cascaded SOGI-FLL. *Sustainability*, **2019**, 11, 4839	3.6	4
32	A novel low voltage ride through strategy of two-stage grid-connected photovoltaic inverter **2013**,		4
31	Modeling of the Tapped Inductor SEPIC converter by the TIS-SFG approach **2015**,		4
30	Control scheme for multi-terminal VSC-based medium-voltage DC distribution networks. *Journal of Engineering*, **2019**, 2019, 2935-2940	0.7	3
29	Stabilization Control Strategy for Shore Power System with Surge Loads Based on Virtual Synchronous Generator. *Journal of Electrical Engineering and Technology*, **2019**, 14, 1045-1054	1.4	3
28	Inherent Interaction Analysis for Harmonic Oscillations in the Multi-Paralleled Grid-Connected Inverter System Using a Sum Type Criterion: Global Admittance (GA). *IEEE Access*, **2020**, 8, 8275-8285	3.5	3
27	Faulty Feeder Identification Based on Data Analysis and Similarity Comparison for Flexible Grounding System in Electric Distribution Networks. *Sensors*, **2020**, 21,	3.8	3
26	A simplified balance factor based midpoint voltage deviation eliminating method for T-type three-level inverter **2016**,		3

25	Admittance Modeling, Analysis, and Reshaping of Harmonic Control Loop for Multiparalleled SAPFs System. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 280-289	11.9	3
24	Parameter-Adaptation-Based Virtual DC Motor Control Method for Energy Storage Converter. *IEEE Access*, **2021**, 9, 90795-90804	3.5	3
23	Electric Vehicle Charging Simulation Framework Considering Traffic, User, and Power Grid. *Journal of Modern Power Systems and Clean Energy*, **2021**, 9, 602-611	4	3
22	Evaluation and Improvement of Active Stabilization Method for Matrix Converter Under Input Voltage Disturbances. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2019**, 7, 1116-1125	5.6	2
21	Low Frequency Damping Control for Power Electronics-Based AC Grid Using Inverters with Built-In PSS. *Energies*, **2021**, 14, 2435	3.1	2
20	Responsibility Identification for Harmonic Oscillation Issues in the Parallel Grid-Connected Inverters System. *IEEE Access*, **2019**, 7, 171061-171072	3.5	2
19	Primary Frequency Controller with Prediction-Based Droop Coefficient for Wind-Storage Systems under Spot Market Rules. *Energies*, **2018**, 11, 2340	3.1	2
18	Optimized configuration of DC bias current suppression resistors in HVDC based on MOFPSO **2017**,		1
17	An Unbalanced Component Detection Method and Compensation Strategy Based on Second-Order Generalized Integrator (SOGI) **2019**,		1
16	Analysis and Control of Switching Circulating Currents in Multi-Module Parallel SPWM Converters. *IEEE Access*, **2018**, 6, 32637-32648	3.5	1
15	An improved DC capacitor voltage balancing strategy for PWM cascaded H-bridge converter-based STATCOM **2013**,		1
14	An Improved Statistical Algorithm for Topology Identification and Parameter Estimation of Low-voltage Distribution Grids **2020**,		1
13	Accurate Modeling of PLL With Frequency-Adaptive Prefilter: On the Positive Feedback Effect. *IEEE Transactions on Power Electronics*, **2021**, 1-1	7.2	1
12	High-performance Resonant Controller Implemented in the Discrete-time Domain for Voltage Regulation of Grid-forming Converters. *IEEE Transactions on Power Electronics*, **2021**, 1-1	7.2	1
11	Passivity enhancement for LCL-filtered grid-connected inverters using the dominant-admittance-based controller. *IET Power Electronics*, **2020**, 13, 4140-4149	2.2	1
10	Line Parameter Estimation of Distribution Network after Grounding Fault **2020**,		1
9	A novel identification and location method for transient power quality disturbance sources **2021**,		1
8	Improved Single-Loop Voltage Control with Stability Enhancement Using Second Order Generalized Integrator (SOGI) **2019**,		1

List of Publications

7	Flexible Grounding System for Single-Phase to Ground Faults in Distribution Networks: A Systematic Review of Developments. *IEEE Transactions on Power Delivery*, **2021**, 1-1	4.3	1
6	Harmonic Stability Assessment based on Global Admittance for Multi-Paralleled Grid-Connected VSIs using Modified Nyquist Criterion **2018**,		1
5	Reliability-Enhanced Hybrid Grounding System Based on Active Neutral-Point Voltage Regulator and Low-Resistance. *IEEE Transactions on Power Delivery*, **2021**, 36, 3270-3273	4.3	1
4	Power electronic transformer with adaptive PLL technique for voltage-disturbance ride through. *Journal of Modern Power Systems and Clean Energy*, **2018**, 6, 1090-1102	4	0
3	Soft-starting scheme for a DC solid-state transformer based on a modular multilevel converter. *Energy Reports*, **2021**, 7, 378-387	4.6	0
2	Enhanced reduced-order generalised integrator with delay compensation for harmonic suppression in distribution system. *IET Power Electronics*, **2020**, 13, 2500-2510	2.2	0
1	Master–slave structure-based capacitor voltage measuring technique for hybrid modular multilevel converters. *IET Power Electronics*, **2018**, 11, 2179-2190	2.2	