

Bin Yang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Accurate Modeling of PLL With Frequency-Adaptive Prefilter: On the Positive Feedback Effect. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	1
59	Soft-starting scheme for a DC solid-state transformer based on a modular multilevel converter. <i>Energy Reports</i> , 2021 , 7, 378-387	4.6	0
58	High-performance Resonant Controller Implemented in the Discrete-time Domain for Voltage Regulation of Grid-forming Converters. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	1
57	Low Frequency Damping Control for Power Electronics-Based AC Grid Using Inverters with Built-In PSS. <i>Energies</i> , 2021 , 14, 2435	3.1	2
56	A novel identification and location method for transient power quality disturbance sources 2021 ,		1
55	Admittance Modeling, Analysis, and Reshaping of Harmonic Control Loop for Multiparalleled SAPFs System. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 280-289	11.9	3
54	Flexible Grounding System for Single-Phase to Ground Faults in Distribution Networks: A Systematic Review of Developments. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	1
53	Parameter-Adaptation-Based Virtual DC Motor Control Method for Energy Storage Converter. <i>IEEE Access</i> , 2021 , 9, 90795-90804	3.5	3
52	Reliability-Enhanced Hybrid Grounding System Based on Active Neutral-Point Voltage Regulator and Low-Resistance. <i>IEEE Transactions on Power Delivery</i> , 2021 , 36, 3270-3273	4.3	1
51	Electric Vehicle Charging Simulation Framework Considering Traffic, User, and Power Grid. <i>Journal of Modern Power Systems and Clean Energy</i> , 2021 , 9, 602-611	4	3
50	A Modular Multilevel Dual Buck Inverter With Adjustable Discontinuous Modulation. <i>IEEE Access</i> , 2020 , 8, 31693-31709	3.5	4
49	Inherent Interaction Analysis for Harmonic Oscillations in the Multi-Paralleled Grid-Connected Inverter System Using a Sum Type Criterion: Global Admittance (GA). <i>IEEE Access</i> , 2020 , 8, 8275-8285	3.5	3
48	An Improved Statistical Algorithm for Topology Identification and Parameter Estimation of Low-voltage Distribution Grids 2020 ,		1
47	Enhanced reduced-order generalised integrator with delay compensation for harmonic suppression in distribution system. <i>IET Power Electronics</i> , 2020 , 13, 2500-2510	2.2	0
46	Four-port solid-state transformer based on hybrid MMC with enhanced dual half-bridge submodules. <i>IET Power Electronics</i> , 2020 , 13, 2432-2441	2.2	7
45	Faulty Feeder Identification Based on Data Analysis and Similarity Comparison for Flexible Grounding System in Electric Distribution Networks. <i>Sensors</i> , 2020 , 21,	3.8	3
44	Passivity enhancement for LCL-filtered grid-connected inverters using the dominant-admittance-based controller. <i>IET Power Electronics</i> , 2020 , 13, 4140-4149	2.2	1

43	Line Parameter Estimation of Distribution Network after Grounding Fault 2020 ,		1
42	A Simple Modulation Scheme With Zero Common-Mode Voltage and Improved Efficiency for Direct Matrix Converter-Fed PMSM Drives. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 3712-3722	5.6	17
41	Steady-State Error Suppression and Simplified Implementation of Direct Source Current Control for Matrix Converter With Model Predictive Control. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 3183-3194	7.2	11
40	Control scheme for multi-terminal VSC-based medium-voltage DC distribution networks. <i>Journal of Engineering</i> , 2019 , 2019, 2935-2940	0.7	3
39	An Unbalanced Component Detection Method and Compensation Strategy Based on Second-Order Generalized Integrator (SOGI) 2019 ,		1
38	An Improved Current Control Strategy Based on Particle Swarm Optimization and Steady-State Error Correction for SAPF. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 4268-4274	4.3	11
37	Stabilization Control Strategy for Shore Power System with Surge Loads Based on Virtual Synchronous Generator. <i>Journal of Electrical Engineering and Technology</i> , 2019 , 14, 1045-1054	1.4	3
36	Evaluation and Improvement of Active Stabilization Method for Matrix Converter Under Input Voltage Disturbances. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 1116-1125	5.6	2
35	Improved hybrid modular multilevel converter with enhanced fault ride-through capability and fast pre-charging strategies. <i>IET Power Electronics</i> , 2019 , 12, 1400-1412	2.2	5
34	Control Strategy for Dynamic Voltage Restorer Under Distorted and Unbalanced Voltage Conditions 2019 ,		4
33	Harmonic Stability Analysis for Multi-Parallel Inverter-Based Grid-Connected Renewable Power System Using Global Admittance. <i>Energies</i> , 2019 , 12, 2687	3.1	9
32	Decoupled Current Controller Based on Reduced Order Generalized Integrator for Three-Phase Grid-Connected VSCs in Distributed System. <i>Energies</i> , 2019 , 12, 2426	3.1	5
31	Resonance Detection Strategy for Multi-Parallel Inverter-Based Grid-Connected Renewable Power System Using Cascaded SOGI-FLL. <i>Sustainability</i> , 2019 , 11, 4839	3.6	4
30	Turn-Off Transient of Superjunction SOI Lateral IGBTs: Mechanism and Optimization Strategy. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 1409-1415	2.9	9
29	Improved Single-Loop Voltage Control with Stability Enhancement Using Second Order Generalized Integrator (SOGI) 2019 ,		1
28	Responsibility Identification for Harmonic Oscillation Issues in the Parallel Grid-Connected Inverters System. <i>IEEE Access</i> , 2019 , 7, 171061-171072	3.5	2
27	Power electronic transformer with adaptive PLL technique for voltage-disturbance ride through. <i>Journal of Modern Power Systems and Clean Energy</i> , 2018 , 6, 1090-1102	4	0
26	Overall control scheme for VSC-based medium-voltage DC power distribution networks. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 1438-1445	2.5	22

25	Low-Order Circulating Current Suppression of PWM-Based Modular Multilevel Converters Using DC-Link Voltage Compensation. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 210-225	7.2	28
24	A Fully Modular Control Strategy for Input-Series Output-Parallel (ISOP) Inverter System Based on Positive Output-Voltage-Amplitude Gradient. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 2878-2887 ²	7.2	19
23	Spatial and Temporal Optimization Strategy for Plug-In Electric Vehicle Charging to Mitigate Impacts on Distribution Network. <i>Energies</i> , 2018 , 11, 1373	3.1	11
22	Optimization of V_{CE} Plateau for Deep-Oxide Trench SOI Lateral IGBT During Inductive Load Turn-OFF. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 3862-3868	2.9	6
21	Analysis and Control of Switching Circulating Currents in Multi-Module Parallel SPWM Converters. <i>IEEE Access</i> , 2018 , 6, 32637-32648	3.5	1
20	An Improved Hybrid Modulation Method for the Single-Phase H6 Inverter With Reactive Power Compensation. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 7674-7683	7.2	14
19	Design and Implementation of Novel Multi-Converter-Based Unified Power Quality Conditioner for Low-Voltage High-Current Distribution System. <i>Energies</i> , 2018 , 11, 3150	3.1	9
18	Harmonic Stability Assessment based on Global Admittance for Multi-Paralleled Grid-Connected VSIs using Modified Nyquist Criterion 2018 ,		1
17	Primary Frequency Controller with Prediction-Based Droop Coefficient for Wind-Storage Systems under Spot Market Rules. <i>Energies</i> , 2018 , 11, 2340	3.1	2
16	Master-slave structure-based capacitor voltage measuring technique for hybrid modular multilevel converters. <i>IET Power Electronics</i> , 2018 , 11, 2179-2190	2.2	
15	Hierarchical control strategy for MVDC distribution network under large disturbance. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 2557-2565	2.5	12
14	Hybrid Resonant ZVZCS PWM Full-Bridge Converter for Large Photovoltaic Parks Connecting to MVDC Grids. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017 , 5, 1078-1090	5.6	21
13	A Dynamic Model and Modified One-Cycle Control of Three-Level Front-End Rectifier for Neutral Point Voltage Balance. <i>IEEE Access</i> , 2017 , 5, 2000-2010	3.5	9
12	A Resonant ZVZCS DCDC Converter With Two Uneven Transformers for an MVDC Collection System of Offshore Wind Farms. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 7886-7895	8.9	16
11	Optimized configuration of DC bias current suppression resistors in HVDC based on MOFPSO 2017 ,		1
10	An improved PSO algorithm for high accurate parameter identification of PV model 2017 ,		7
9	Unified Digital Phase-Locked Loop With Multiple Complex Resonators for Both Single- and Three-Phase Grid Synchronization. <i>IEEE Access</i> , 2017 , 5, 24810-24818	3.5	10
8	Load modeling method for EV charging stations based on trip chain 2017 ,		5

7	An Improved Capacitor Voltage-Balancing Method for Five-Level Diode-Clamped Converters With High Modulation Index and High Power Factor. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 3189-3202	7.2	32
6	A simplified balance factor based midpoint voltage deviation eliminating method for T-type three-level inverter 2016 ,		3
5	Safe-triggering-region control scheme for suppressing cross current in static transfer switch. <i>Electric Power Systems Research</i> , 2015 , 125, 245-253	3.5	7
4	Design of a Four-Branch LCL-Type Grid-Connecting Interface for a Three-Phase, Four-Leg Active Power Filter. <i>Energies</i> , 2015 , 8, 1606-1627	3.1	9
3	Modeling of the Tapped Inductor SEPIC converter by the TIS-SFG approach 2015 ,		4
2	An improved DC capacitor voltage balancing strategy for PWM cascaded H-bridge converter-based STATCOM 2013 ,		1
1	A novel low voltage ride through strategy of two-stage grid-connected photovoltaic inverter 2013 ,		4