

Hongcheng You

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.

119 papers	1,604 citations	17 h-index	36 g-index
155 ext. papers	2,273 ext. citations	4.5 avg, IF	5.61 L-index

#	Paper	IF	Citations
119	Oscillation Propagation Analysis of Hybrid AC/DC Grids with High Penetration Renewables. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	2
118	Power Loss Reduction Control for Modular Multilevel Converters based on Resistor Controllable Submodule. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	1
117	Control of a Hybrid Modular Solid-State Transformer for Uninterrupted Power Supply under MVdc Short-Circuit Fault. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
116	Operation and Control of Bipolar-Type Modular Solid State Transformer with Active Circulating Current Injection and Arm Voltage Adjusting Method. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	
115	Monopolar Fault Reconfiguration of Bipolar Half Bridge Converter for Reliable Load Supply in DC Distribution System. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	0
114	Lumped Thermal Coupling Model of Multi-chip Power Module Enabling Case Temperature as Reference Node. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	2
113	Artificial Neural Network-based Pole-tracking Method for Online Stabilization Control of Grid-tied VSC. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
112	Modified LLC Resonant Converter with LC Anti-resonant Circuit in Parallel Branch for Wide Voltage Range Application. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	0
111	Approach to Inertial Compensation of HVDC Offshore Wind Farms by MMC with Ultracapacitor Energy Storage Integration. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	0
110	Mission Profile Emulation for Flexible Number of Submodules in Modular Multilevel Converters with Nearest Level Modulation. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
109	Submodule Open-Circuit Fault Detection for Modular Multilevel Converters under Light Load Condition with Rearranged Bleeding Resistor Circuit. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	3
108	Temperature-Balancing Control for Modular Multilevel Converters under Unbalanced Grid Voltages. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	5
107	Optimal short-circuit current control of the grid-forming converter during grid fault condition. <i>IET Renewable Power Generation</i> , 2021 , 15, 2185-2194	2.9	3
106	Bidirectional speed range extension of DFIG-based WECS with dynamic minimum dc-bus voltage. <i>IET Generation, Transmission and Distribution</i> , 2021 , 15, 2943	2.5	
105	AC Grid Emulations for Advanced Testing of Grid-Connected Converters—An Overview. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1626-1645	7.2	16
104	Design and Control of Power Fluctuation Delivery for Cell Capacitance Optimization in Multiport Modular Solid-State Transformers. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1412-1427	7.2	13
103	Energy Storage Sizing Optimization for Large-Scale PV Power Plant. <i>IEEE Access</i> , 2021 , 9, 75599-75607	3.5	4

102	Distributed-Diode-Rectifiers-Based Offshore Wind Power MVDC Direct-Transmission System. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	1
101	Large-Signal Grid-synchronization Stability Analysis of PLL-based VSCs Using Lyapunovs Direct Method. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	7
100	A Complete Impedance Model of a PMSG-Based Wind Energy Conversion System and Its Effect on the Stability Analysis of MMC-HVDC Connected Offshore Wind Farms. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	2
99	Block Diagonal Dominance-Based Model Reduction Method Applied to MMC Asymmetric Stability Analysis. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 2438-2451	5.4	4
98	Flexible Nearest Level Modulation for Modular Multilevel Converter. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 13686-13696	7.2	4
97	Reverse Blocking Devices Based Three-Level MMC Sub-Module Topology With DC Side Fault Blocking Capability. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	1
96	Impedance Modelling Mechanisms and Stability Issues of Single Phase Inverter with SISO Structure and Frequency Coupling Effect. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	1
95	Quantitative Analysis and Performance Comparison of DC PV Power Collection Network with Different Configurations 2020 ,		1
94	A Step-Up Nonisolated Modular Multilevel DCDC Converter With Self-Voltage Balancing and Soft Switching. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 13017-13030	7.2	8
93	Modular Interline DC Power Flow Controller. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 11707-11719	7.2	8
92	Optimal Inertia Reserve and Inertia Control Strategy for Wind Farms. <i>Energies</i> , 2020 , 13, 1067	3.1	2
91	Generalized MIMO Sequence Impedance Modeling and Stability Analysis of MMC-HVDC With Wind Farm Considering Frequency Couplings. <i>IEEE Access</i> , 2020 , 8, 55602-55618	3.5	13
90	Output-Series Modular DCDC Converter With Self-Voltage Balancing for Integrating Variable Energy Sources. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 11321-11327	7.2	10
89	Coordinated Power Control for Distributed Hybrid Energy Storage in DC PV Power Collection System 2020 ,		1
88	Composite DC Power Flow Controller. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 3530-3542	7.2	9
87	Topology Analysis and Validation of Novel Modular DC-DC Auto-Transformer 2020 ,		1
86	A Comprehensive Study on Impedance Models of Grid-Tied Voltage-Source Converters 2020 ,		3
85	Self-Adaptation Control of Second-Life Battery Energy Storage System Based on Cascaded H-Bridge Converter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1428-1441	5.6	9

84	Cascaded MVDC Integration Interface for Multiple DERs With Enhanced Wide-Range Operation Capability: Concepts and Small-Signal Analysis. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 1182-1188	7.2	13
83	Input-Independent and Output-Series Connected Modular DCDC Converter With Intermodule Power Balancing Units for MVdc Integration of Distributed PV. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 1622-1636	7.2	21
82	Stability Enhancement and Direct Speed Control of DFIG Inertia Emulation Control Strategy. <i>IEEE Access</i> , 2019 , 7, 120089-120105	3.5	8
81	DC Substation for DC Grid Part I: Comparative Evaluation of DC Substation Configurations. <i>IEEE Transactions on Power Electronics</i> , 2019 , 1-1	7.2	12
80	Equivalent Modeling and Comprehensive Evaluation of Inertia Emulation Control Strategy for DFIG Wind Turbine Generator. <i>IEEE Access</i> , 2019 , 7, 64798-64811	3.5	19
79	Frequency domain analysis of wind farm on the damping characteristics of a nearby synchronous generator. <i>IEEE Transactions on Electrical and Electronic Engineering</i> , 2019 , 14, 1164-1171	1	
78	Control of a Type-IV Wind Turbine With the Capability of Robust Grid-Synchronization and Inertial Response for Weak Grid Stable Operation. <i>IEEE Access</i> , 2019 , 7, 58553-58569	3.5	17
77	Frequency-domain modelling and stability analysis of a DFIG-based wind energy conversion system under non-compensated AC grids: impedance modelling effects and consequences on stability. <i>IEEE Transactions on Power Electronics</i> , 2019 , 12, 907-914	2.2	24
76	Thermal Characterization Method of Power Semiconductors Based on H-Bridge Testing Circuit. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 8268-8273	7.2	15
75	Suppression of Reactive Power in Isolated Modular Multilevel DCDC Converter Under Quasi Square-Wave Modulation. <i>IEEE Access</i> , 2019 , 7, 23940-23950	3.5	6
74	Reconfigurable Control for Fault-Tolerant of Parallel Converters in PMSG Wind Energy Conversion System. <i>IEEE Transactions on Sustainable Energy</i> , 2019 , 10, 604-614	8.2	14
73	Harmonic State-Space Based Small-Signal Impedance Modeling of a Modular Multilevel Converter With Consideration of Internal Harmonic Dynamics. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 2134-2148	7.2	110
72	On the Impedance Modeling and Equivalence of AC/DC-Side Stability Analysis of a Grid-Tied Type-IV Wind Turbine System. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 1000-1009	5.4	32
71	A New Hybrid Modular Multilevel Converter With Integrated Energy Storage. <i>IEEE Access</i> , 2019 , 7, 172981-172993	3.5	17
70	Impedance Readjusting Method of Grid-Connected Inverter Cluster with PR Control Strategy 2019 ,		1
69	Impedance Characteristics Analysis of Modular Multilevel Converter with Direct Modulation and Compensated Modulation 2019 ,		2
68	Effects of DC Power Flow Controller On DC Power Network Loss 2019 ,		1
67	Influence of Parasitic Parameters on DCDC Converters and Their Method of Suppression in High Frequency Link 35 kV PV Systems. <i>Energies</i> , 2019 , 12, 3743	3.1	1

66	LPV-based Cascade Control for Three Mode Non-inverting Buck-Boost Converter 2019 ,		1
65	An Overview of the Photovoltaic Industry Status and Perspective in China. <i>IEEE Access</i> , 2019 , 7, 181051-181060	3.5	1068
64	An optimal power-decoupling control strategy between torque and pitch controllers for variable-speed pitch-regulated wind turbines. <i>International Transactions on Electrical Energy Systems</i> , 2019 , 29, e2808	2.2	1
63	DC Substation for DC Grid Part II: Hierarchical Control Strategy and Verifications. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 8682-8696	7.2	14
62	Adaptive Control Strategy for Improving the Efficiency and Reliability of Parallel Wind Power Converters by Optimizing Power Allocation. <i>IEEE Access</i> , 2018 , 6, 6138-6148	3.5	16
61	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 1540-1552	5.6	10
60	Optimal Design of Controller Parameters for Improving the Stability of MMC-HVDC for Wind Farm Integration. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 40-53	5.6	76
59	Bumpless transfer of non-inverting buck boost converter among multiple working modes 2018 ,		5
58	. <i>IEEE Access</i> , 2018 , 6, 25448-25462	3.5	14
57	Sequence Domain SISO Equivalent Models of a Grid-Tied Voltage Source Converter System for Small-Signal Stability Analysis. <i>IEEE Transactions on Energy Conversion</i> , 2018 , 33, 741-749	5.4	102
56	A Novel Power-Voltage Control Strategy for the Grid-Tied Inverter to Raise the Rated Power Injection Level in a Weak Grid. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 219-232	5.6	35
55	Low-cost post power switch open-circuit fault operation approach for an IPMSM drive. <i>Journal of Engineering</i> , 2018 , 2018, 552-557	0.7	
54	Impedance analysis and stabilization control of the LCL-type wind power inverter under weak grid conditions. <i>Journal of Renewable and Sustainable Energy</i> , 2018 , 10, 035301	2.5	
53	A Novel DC-Side-Port Impedance Modeling of Modular Multilevel Converters Based on Harmonic State Space Method 2018 ,		1
52	Comparison of Harmonic Linearization and Harmonic State Space Methods for Impedance Modeling of Modular Multilevel Converter 2018 ,		3
51	Fluctuating characteristic and power smoothing strategies of WECS. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 4568-4576	2.5	3
50	DC Fault Analysis of Modular DC/DC Converter Employing a New Submodule With Damping-Resistor. <i>IEEE Access</i> , 2018 , 1-1	3.5	2
49	Autonomous grid-synchronising control of VSC-HVDC with real-time frequency mirroring capability for wind farm integration. <i>IET Renewable Power Generation</i> , 2018 , 12, 1572-1580	2.9	12

48	Optimized Design and Control for Hybrid MMC With Reduced Capacitance Requirements. <i>IEEE Access</i> , 2018 , 6, 51069-51083	3.5	14
47	. <i>IEEE Access</i> , 2018 , 1-1	3.5	2
46	Parallel operation of distributed voltage balancers for bipolar DC system with improved reliability and efficiency 2017 ,		5
45	Combination strategy of DC power flow controller for multi-terminal HVDC system. <i>Journal of Engineering</i> , 2017 , 2017, 1441-1446	0.7	6
44	Multi-bus flexible interconnection scheme for balancing power transformers in low-voltage distribution systems 2017 ,		2
43	On the Equivalence and Impact on Stability of Impedance Modeling of Power Electronic Converters in Different Domains. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017 , 5, 1444-1454	5.6	62
42	Concept of unified mode control for non-inverting Buck-Boost converter 2017 ,		5
41	Properties and physical interpretation of the dynamic interactions between voltage source converters and grid: electrical oscillation and its stability control. <i>IET Power Electronics</i> , 2017 , 10, 894-902	2.2	33
40	. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 5978-5990	7.2	17
39	Analysis and Fault Control of Hybrid Modular Multilevel Converter With Integrated Battery Energy Storage System. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017 , 5, 64-78	5.6	47
38	Interfacing technique and hardware-in-loop simulation of real-time co-simulation platform for wind energy conversion system. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 3030-3038	2.5	19
37	DC bus current optimization control strategy in DFIG wind power systems with current source converter 2017 ,		1
36	Optimal power generation control of wind turbines based on dynamically updated torque limit values. <i>International Transactions on Electrical Energy Systems</i> , 2017 , 27, e2432	2.2	2
35	Breaking performance limit of asynchronous control for non-inverting buck boost converter 2017 ,		5
34	DC power collection system for PV station based on impedance-source multi-module DCDC step-up converter. <i>Journal of Engineering</i> , 2017 , 2017, 1734-1739	0.7	6
33	Space vector modulation for six-phase open-end winding PMSM motor drives with common mode voltage suppression 2017 ,		2
32	Soft-Switching Operation of Isolated Modular DC/DC Converters for Application in HVDC Grids. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 2753-2766	7.2	76
31	Frequency-dependent source and load impedances in power systems based on power electronic converters 2016 ,		2

30	Topology and operation mechanism of monopolar-to-bipolar DC-DC converter interface for DC grid 2016 ,		2
29	Configuration and operation of DC microgrid cluster linked through DC-DC converter 2016 ,		11
28	A Modified Sequence-Domain Impedance Definition and Its Equivalence to the dq-Domain Impedance Definition for the Stability Analysis of AC Power Electronic Systems. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2016 , 4, 1383-1396	5.6	230
27	Frequency Domain Stability Analysis of MMC-Based HVdc for Wind Farm Integration. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2016 , 4, 141-151	5.6	138
26	Bifurcate modular multilevel converter for low-modulation-ratio applications. <i>IET Power Electronics</i> , 2016 , 9, 145-154	2.2	6
25	Voltage balancing control of isolated modular multilevel dc/dc converter for use in dc grids with zero voltage switching. <i>IET Power Electronics</i> , 2016 , 9, 270-280	2.2	35
24	Guest Editorial Converters and Semiconductor Circuit Breakers for HVDC and DC grids. <i>IET Power Electronics</i> , 2016 , 9, 143-144	2.2	1
23	Circulating current control strategy for parallel full-scale wind power converters. <i>IET Power Electronics</i> , 2016 , 9, 639-647	2.2	8
22	An electrolytic capacitor-less IPMSM drive with input current shaping based on the predictive control 2015 ,		2
21	Improved asynchronous voltage regulation strategy of non-inverting Buck-Boost converter for renewable energy integration 2015 ,		7
20	Wide voltage range operation of isolated modular multilevel DC-DC converter 2015 ,		12
19	Control implementation of the full-scale wind power converter without grid voltage sensors 2014 ,		4
18	Optimized Control of the Doubly Fed Induction Generator System Based on input-output Linearizing Scheme. <i>Wind Engineering</i> , 2014 , 38, 101-108	1.2	8
17	Subsynchronous oscillation of large DFIG-based wind farms integration through MMC-based HVDC 2014 ,		4
16	Thermal control method based on reactive circulating current for anti-condensation of wind power converter under wind speed variations 2014 ,		5
15	Medium-voltage level dynamic voltage restorer compensation strategy by positive and negative sequence extractions in multiple reference frames. <i>IET Power Electronics</i> , 2014 , 7, 1747-1758	2.2	32
14	Modeling and close-loop control strategies of Switched Z-source Isolated Bidirectional DC-DC Converter 2014 ,		2
13	Adaptive thermal control for power fluctuation to improve lifetime of IGBTs in multi-MW medium voltage wind power converter 2014 ,		7

12	Space vector pulse-width modulation theory and solution for Z-source inverters with maximum constant boost control. <i>International Journal of Circuit Theory and Applications</i> , 2014 , 42, 127-145	2	4
11	Optimization of the LC filter based on double impact factors for cascaded H-bridge DVR 2013 ,		1
10	Adaptive digital gate control for series connected IGBTs 2013 ,		3
9	Grid integration of offshore wind farms and offshore oil/gas platforms 2012 ,		1
8	Control strategy of series DC wind farm based on Z-source DC/DC converter 2012 ,		1
7	Improvement of the Low-Voltage Ride-through Capability of Doubly Fed Induction Generator Wind Turbines. <i>Wind Engineering</i> , 2012 , 36, 535-551	1.2	6
6	Overview of multi-terminal VSC HVDC transmission for large offshore wind farms 2011 ,		2
5	Sliding Mode Control for Wind Energy Grid-Connected Converter with LCL Filter. <i>Wind Engineering</i> , 2011 , 35, 703-714	1.2	2
4	A Novel Multi-level Medium Voltage Converter Designed for Medium Voltage Wind Power Generation System 2010 ,		4
3	Control of offshore wind turbine simulators for real time using layering models 2009 ,		1
2	Dynamic Responses of DFIG Fault Currents Under Constant AC Excitation Condition 2009 ,		8
1	Decoupled control of active and reactive power for a grid-connected doubly-fed induction generator 2008 ,		2