Hongcheng You

List of Publications by Citations

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	A Modified Sequence-Domain Impedance Definition and Its Equivalence to the dq-Domain Impedance Definition for the Stability Analysis of AC Power Electronic Systems. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2016**, 4, 1383-1396	5.6	230
118	Frequency Domain Stability Analysis of MMC-Based HVdc for Wind Farm Integration. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2016**, 4, 141-151	5.6	138
117	Harmonic State-Space Based Small-Signal Impedance Modeling of a Modular Multilevel Converter With Consideration of Internal Harmonic Dynamics. *IEEE Transactions on Power Electronics*, **2019**, 34, 2134-2148	7.2	110
116	Sequence Domain SISO Equivalent Models of a Grid-Tied Voltage Source Converter System for Small-Signal Stability Analysis. *IEEE Transactions on Energy Conversion*, **2018**, 33, 741-749	5.4	102
115	Soft-Switching Operation of Isolated Modular DC/DC Converters for Application in HVDC Grids. *IEEE Transactions on Power Electronics*, **2016**, 31, 2753-2766	7.2	76
114	Optimal Design of Controller Parameters for Improving the Stability of MMC-HVDC for Wind Farm Integration. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2018**, 6, 40-53	5.6	76
113	On the Equivalence and Impact on Stability of Impedance Modeling of Power Electronic Converters in Different Domains. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2017**, 5, 1444-1454	5.6	62
112	Analysis and Fault Control of Hybrid Modular Multilevel Converter With Integrated Battery Energy Storage System. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2017**, 5, 64-78	5.6	47
111	A Novel Power-Voltage Control Strategy for the Grid-Tied Inverter to Raise the Rated Power Injection Level in a Weak Grid. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2018**, 6, 219-232	5.6	35
110	Voltage balancing control of isolated modular multilevel dc□dc converter for use in dc grids with zero voltage switching. *IET Power Electronics*, **2016**, 9, 270-280	2.2	35
109	Properties and physical interpretation of the dynamic interactions between voltage source converters and grid: electrical oscillation and its stability control. *IET Power Electronics*, **2017**, 10, 894-902	2.2	33
108	On the Impedance Modeling and Equivalence of AC/DC-Side Stability Analysis of a Grid-Tied Type-IV Wind Turbine System. *IEEE Transactions on Energy Conversion*, **2019**, 34, 1000-1009	5.4	32
107	Medium-voltage level dynamic voltage restorer compensation strategy by positive and negative sequence extractions in multiple reference frames. *IET Power Electronics*, **2014**, 7, 1747-1758	2.2	32
106	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. *IET Power Electronics*, **2019**, 12, 907-914	2.2	24
105	Input-Independent and Output-Series Connected Modular DC□DC Converter With Intermodule Power Balancing Units for MVdc Integration of Distributed PV. *IEEE Transactions on Power Electronics*, **2020**, 35, 1622-1636	7.2	21
104	Equivalent Modeling and Comprehensive Evaluation of Inertia Emulation Control Strategy for DFIG Wind Turbine Generator. *IEEE Access*, **2019**, 7, 64798-64811	3.5	19
103	Interfacing technique and hardware-in-loop simulation of real-time co-simulation platform for wind energy conversion system. *IET Generation, Transmission and Distribution*, **2017**, 11, 3030-3038	2.5	19

102	Control of a Type-IV Wind Turbine With the Capability of Robust Grid-Synchronization and Inertial Response for Weak Grid Stable Operation. *IEEE Access*, **2019**, 7, 58553-58569	3.5	17
101	. *IEEE Transactions on Power Electronics*, **2017**, 32, 5978-5990	7.2	17
100	Adaptive Control Strategy for Improving the Efficiency and Reliability of Parallel Wind Power Converters by Optimizing Power Allocation. *IEEE Access*, **2018**, 6, 6138-6148	3.5	16
99	AC Grid Emulations for Advanced Testing of Grid-Connected Converters: An Overview. *IEEE Transactions on Power Electronics*, **2021**, 36, 1626-1645	7.2	16
98	Thermal Characterization Method of Power Semiconductors Based on H-Bridge Testing Circuit. *IEEE Transactions on Power Electronics*, **2019**, 34, 8268-8273	7.2	15
97	. *IEEE Access*, **2018**, 6, 25448-25462	3.5	14
96	Reconfigurable Control for Fault-Tolerant of Parallel Converters in PMSG Wind Energy Conversion System. *IEEE Transactions on Sustainable Energy*, **2019**, 10, 604-614	8.2	14
95	DC Substation for DC Grid: Part II: Hierarchical Control Strategy and Verifications. *IEEE Transactions on Power Electronics*, **2019**, 34, 8682-8696	7.2	14
94	Optimized Design and Control for Hybrid MMC With Reduced Capacitance Requirements. *IEEE Access*, **2018**, 6, 51069-51083	3.5	14
93	Generalized MIMO Sequence Impedance Modeling and Stability Analysis of MMC-HVDC With Wind Farm Considering Frequency Couplings. *IEEE Access*, **2020**, 8, 55602-55618	3.5	13
92	Cascaded MVDC Integration Interface for Multiple DERs With Enhanced Wide-Range Operation Capability: Concepts and Small-Signal Analysis. *IEEE Transactions on Power Electronics*, **2020**, 35, 1182-1188	7.2	13
91	Design and Control of Power Fluctuation Delivery for Cell Capacitance Optimization in Multiport Modular Solid-State Transformers. *IEEE Transactions on Power Electronics*, **2021**, 36, 1412-1427	7.2	13
90	DC Substation for DC Grid: Part I: Comparative Evaluation of DC Substation Configurations. *IEEE Transactions on Power Electronics*, **2019**, 1-1	7.2	12
89	Wide voltage range operation of isolated modular multilevel DC-DC converter **2015**,		12
88	Autonomous grid-synchronising control of VSC-HVDC with real-time frequency mirroring capability for wind farm integration. *IET Renewable Power Generation*, **2018**, 12, 1572-1580	2.9	12
87	Configuration and operation of DC microgrid cluster linked through DC-DC converter **2016**,		11
86	Output-Series Modular DC–DC Converter With Self-Voltage Balancing for Integrating Variable Energy Sources. *IEEE Transactions on Power Electronics*, **2020**, 35, 11321-11327	7.2	10
85	. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2018**, 6, 1540-1552	5.6	10

84	Composite DC Power Flow Controller. *IEEE Transactions on Power Electronics*, **2020**, 35, 3530-3542	7.2	9
83	Self-Adaptation Control of Second-Life Battery Energy Storage System Based on Cascaded H-Bridge Converter. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 8, 1428-1441	5.6	9
82	Stability Enhancement and Direct Speed Control of DFIG Inertia Emulation Control Strategy. *IEEE Access*, **2019**, 7, 120089-120105	3.5	8
81	A Step-Up Nonisolated Modular Multilevel DC–DC Converter With Self-Voltage Balancing and Soft Switching. *IEEE Transactions on Power Electronics*, **2020**, 35, 13017-13030	7.2	8
80	Modular Interline DC Power Flow Controller. *IEEE Transactions on Power Electronics*, **2020**, 35, 11707-11719	7.2	8
79	Circulating current control strategy for parallel full-scale wind power converters. *IET Power Electronics*, **2016**, 9, 639-647	2.2	8
78	Optimized Control of the Doubly Fed Induction Generator System Based on input-output Linearizing Scheme. *Wind Engineering*, **2014**, 38, 101-108	1.2	8
77	Dynamic Responses of DFIG Fault Currents Under Constant AC Exitation Condition **2009**,		8
76	An Overview of the Photovoltaic Industry Status and Perspective in China. *IEEE Access*, **2019**, 7, 181051-181060	3.5	8
75	A New Hybrid Modular Multilevel Converter With Integrated Energy Storage. *IEEE Access*, **2019**, 7, 172981-172993	3.5	7
74	Improved asynchronous voltage regulation strategy of non-inverting Buck-Boost converter for renewable energy integration **2015**,		7
73	Adaptive thermal control for power fluctuation to improve lifetime of IGBTs in multi-MW medium voltage wind power converter **2014**,		7
72	Large-Signal Grid-synchronization Stability Analysis of PLL-based VSCs Using Lyapunovs Direct Method. *IEEE Transactions on Power Systems*, **2021**, 1-1	7	7
71	Suppression of Reactive Power in Isolated Modular Multilevel DC–DC Converter Under Quasi Square-Wave Modulation. *IEEE Access*, **2019**, 7, 23940-23950	3.5	6
70	Combination strategy of DC power flow controller for multi-terminal HVDC system. *Journal of Engineering*, **2017**, 2017, 1441-1446	0.7	6
69	Bifurcate modular multilevel converter for low-modulation-ratio applications. *IET Power Electronics*, **2016**, 9, 145-154	2.2	6
68	DC power collection system for PV station based on impedance-source multi-module DC–DC step-up converter. *Journal of Engineering*, **2017**, 2017, 1734-1739	0.7	6
67	Improvement of the Low-Voltage Ride-through Capability of Doubly Fed Induction Generator Wind Turbines. *Wind Engineering*, **2012**, 36, 535-551	1.2	6

66	Parallel operation of distributed voltage balancers for bipolar DC system with improved reliability and efficiency **2017**,		5
65	Bumpless transfer of non-inverting buck boost converter among multiple working modes **2018**,		5
64	Concept of unified mode control for non-inverting Buck-Boost converter **2017**,		5
63	Breaking performance limit of asynchronous control for non-inverting buck boost converter **2017**,		5
62	Thermal control method based on reactive circulating current for anti-condensation of wind power converter under wind speed variations **2014**,		5
61	Temperature-Balancing Control for Modular Multilevel Converters under Unbalanced Grid Voltages. *IEEE Transactions on Power Electronics*, **2021**, 1-1	7.2	5
60	Control implementation of the full-scale wind power converter without grid voltage sensors **2014**,		4
59	Subsynchronous oscillation of large DFIG-based wind farms integration through MMC-based HVDC **2014**,		4
58	Space vector pulse-width modulation theory and solution for Z-source inverters with maximum constant boost control. *International Journal of Circuit Theory and Applications*, **2014**, 42, 127-145	2	4
57	A Novel Multi-level Medium Voltage Converter Designed for Medium Voltage Wind Power Generation System **2010**,		4
56	Energy Storage Sizing Optimization for Large-Scale PV Power Plant. *IEEE Access*, **2021**, 9, 75599-75607	3.5	4
55	Block Diagonal Dominance-Based Model Reduction Method Applied to MMC Asymmetric Stability Analysis. *IEEE Transactions on Energy Conversion*, **2021**, 36, 2438-2451	5.4	4
54	Flexible Nearest Level Modulation for Modular Multilevel Converter. *IEEE Transactions on Power Electronics*, **2021**, 36, 13686-13696	7.2	4
53	Adaptive digital gate control for series connected IGBTs **2013**,		3
52	Submodule Open-Circuit Fault Detection for Modular Multilevel Converters under Light Load Condition with Rearranged Bleeding Resistor Circuit. *IEEE Transactions on Power Electronics*, **2021**, 1-1	7.2	3
51	A Comprehensive Study on Impedance Models of Grid-Tied Voltage-Source Converters **2020**,		3
50	Optimal short-circuit current control of the grid-forming converter during grid fault condition. *IET Renewable Power Generation*, **2021**, 15, 2185-2194	2.9	3
49	Comparison of Harmonic Linearization and Harmonic State Space Methods for Impedance Modeling of Modular Multilevel Converter **2018**,		3

48	Fluctuating characteristic and power smoothing strategies of WECS. *IET Generation, Transmission and Distribution*, **2018**, 12, 4568-4576	2.5	3
47	An electrolytic capacitor-less IPMSM drive with input current shaping based on the predictive control **2015**,		2
46	Optimal Inertia Reserve and Inertia Control Strategy for Wind Farms. *Energies*, **2020**, 13, 1067	3.1	2
45	Multi-bus flexible interconnection scheme for balancing power transformers in low-voltage distribution systems **2017**,		2
44	Frequency-dependent source and load impedances in power systems based on power electronic converters **2016**,		2
43	Topology and operation mechanism of monopolarto-bipolar DC-DC converter interface for DC grid **2016**,		2
42	Optimal power generation control of wind turbines based on dynamically updated torque limit values. *International Transactions on Electrical Energy Systems*, **2017**, 27, e2432	2.2	2
41	Space vector modulation for six-phase open-end winding PMSM motor drives with common mode voltage suppression **2017**,		2
40	Modeling and close-loop control strategies of Switched Z-source Isolated Bidirectional DC-DC Converter **2014**,		2
39	Overview of multi-terminal VSC HVDC transmission for large offshore wind farms **2011**,		2
38	Sliding Mode Control for Wind Energy Grid-Connected Converter with LCL Filter. *Wind Engineering*, **2011**, 35, 703-714	1.2	2
37	Decoupled control of active and reactive power for a grid-connected doubly-fed induction generator **2008**,		2
36	Oscillation Propagation Analysis of Hybrid AC/DC Grids with High Penetration Renewables. *IEEE Transactions on Power Systems*, **2022**, 1-1	7	2
35	Impedance Characteristics Analysis of Modular Multilevel Converter with Direct Modulation and Compensated Modulation **2019**,		2
34	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. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	2
33	DC Fault Analysis of Modular DC/DC Converter Employing a New Submodule With Damping-Resistor. *IEEE Access*, **2018**, 1-1	3.5	2
32	. *IEEE Access*, **2018**, 1-1	3.5	2
31	Lumped Thermal Coupling Model of Multi-chip Power Module Enabling Case Temperature as Reference Node. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	2

30	Quantitative Analysis and Performance Comparison of DC PV Power Collection Network with Different Configurations **2020**,		1
29	Guest Editorial Converters and Semiconductor Circuit Breakers for HVDC and DC grids. *IET Power Electronics*, **2016**, 9, 143-144	2.2	1
28	Impedance Readjusting Method of Grid-Connected Inverter Cluster with PR Control Strategy **2019**,		1
27	Optimization of the LC filter based on double impact factors for cascaded H-bridge DVR **2013**,		1
26	DC bus current optimization control strategy in DFIG wind power systems with current source converter **2017**,		1
25	Grid integration of offshore wind farms and offshore oil/gas platforms **2012**,		1
24	Control strategy of series DC wind farm based on Z-source DC/DC converter **2012**,		1
23	Control of offshore wind turbine simulators for real time using layering models **2009**,		1
22	Coordinated Power Control for Distributed Hybrid Energy Storage in DC PV Power Collection System **2020**,		1
21	Artificial Neural Network-based Pole-tracking Method for Online Stabilization Control of Grid-tied VSC. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	1
20	Mission Profile Emulation for Flexible Number of Submodules in Modular Multilevel Converters with Nearest Level Modulation. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	1
19	Topology Analysis and Validation of Novel Modular DC-DC Auto-Transformer **2020**,		1
18	Effects of DC Power Flow Controller On DC Power Network Loss **2019**,		1
17	Influence of Parasitic Parameters on DC–DC Converters and Their Method of Suppression in High Frequency Link 35 kV PV Systems. *Energies*, **2019**, 12, 3743	3.1	1
16	LPV-based Cascade Control for Three Mode Non-inverting Buck-Boost Converter **2019**,		1
15	An optimal power-decoupling control strategy between torque and pitch controllers for variable-speed pitch-regulated wind turbines. *International Transactions on Electrical Energy Systems*, **2019**, 29, e2808	2.2	1
14	Distributed-Diode-Rectifiers-Based Offshore Wind Power MVDC Direct-Transmission System. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	1
13	A Novel DC-Side-Port Impedance Modeling of Modular Multilevel Converters Based on Harmonic State Space Method **2018**,		1

12	Reverse Blocking Devices Based Three-Level MMC Sub-Module Topology With DC Side Fault Blocking Capability. *IEEE Transactions on Power Delivery*, **2021**, 1-1	4.3	1
11	Impedance Modelling Mechanisms and Stability Issues of Single Phase Inverter with SISO Structure and Frequency Coupling Effect. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	1
10	Power Loss Reduction Control for Modular Multilevel Converters based on Resistor Controllable Submodule. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	1
9	Control of a Hybrid Modular Solid-State Transformer for Uninterrupted Power Supply under MVdc Short-Circuit Fault. *IEEE Transactions on Industrial Electronics*, **2022**, 1-1	8.9	1
8	Modified LLC Resonant Converter with LC Anti-resonant Circuit in Parallel Branch for Wide Voltage Range Application. *IEEE Transactions on Power Electronics*, **2021**, 1-1	7.2	0
7	Approach to Inertial Compensation of HVDC Offshore Wind Farms by MMC with Ultracapacitor Energy Storage Integration. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	0
6	Monopolar Fault Reconfiguration of Bipolar Half Bridge Converter for Reliable Load Supply in DC Distribution System. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	0
5	Frequency domain analysis of wind farm on the damping characteristics of a nearby synchronous generator. *IEEJ Transactions on Electrical and Electronic Engineering*, **2019**, 14, 1164-1171	1	
4	Low-cost post power switch open-circuit fault operation approach for an IPMSM drive. *Journal of Engineering*, **2018**, 2018, 552-557	0.7	
3	Impedance analysis and stabilization control of the LCL-type wind power inverter under weak grid conditions. *Journal of Renewable and Sustainable Energy*, **2018**, 10, 035301	2.5	
2	Bidirectional speed range extension of DFIG-based WECS with dynamic minimum dc-bus voltage. *IET Generation, Transmission and Distribution*, **2021**, 15, 2943	2.5	
1	Operation and Control of Bipolar-Type Modular Solid State Transformer with Active Circulating Current Injection and Arm Voltage Adjusting Method. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	