

Rui Li

List of Publications by Year in descending order

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88
papers

2,718
citations

201674

27
h-index

182427

51
g-index

103
all docs

103
docs citations

103
times ranked

2127
citing authors

#	ARTICLE	IF	CITATIONS
1	Circulating Current Suppression Scheme for Interleaved Active Neutral Point Clamped Nine-Level Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 3669-3679.	5.4	3
2	A Novel Current Self-Balancing Method for High-Gain and High-Frequency Converter. IEEE Transactions on Industrial Electronics, 2023, 70, 4922-4930.	7.9	0
3	A Wide Output Voltage Range LLC Resonant Converter Based on Topology Reconfiguration Method. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 969-983.	5.4	10
4	Impedance Modelling and Stability Analysis of Diode-Rectifier based HVDC Connected Offshore Wind Farms. IEEE Transactions on Power Delivery, 2022, 37, 591-602.	4.3	15
5	Reverse Blocking Devices Based Three-Level MMC Sub-Module Topology With DC Side Fault Blocking Capability. IEEE Transactions on Power Delivery, 2022, 37, 1866-1875.	4.3	5
6	An Adaptive Reclosing Scheme Based on Phase Characteristics for MMC-HVDC Systems. IEEE Transactions on Power Delivery, 2022, 37, 2986-2996.	4.3	4
7	Modified LLC Resonant Converter With LC Antiresonant Circuit in Parallel Branch for Wide Voltage Range Application. IEEE Transactions on Power Electronics, 2022, 37, 7387-7399.	7.9	5
8	Approach to Inertial Compensation of HVdc Offshore Wind Farms by MMC With Ultracapacitor Energy Storage Integration. IEEE Transactions on Industrial Electronics, 2022, 69, 12988-12998.	7.9	5
9	An Analog-Device-Based Five-Domain Control Method and Distributed System Configuration for High-Power Spacecraft Power Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 5332-5344.	5.4	1
10	A Review of Power Conversion Systems and Design Schemes of High-Capacity Battery Energy Storage Systems. IEEE Access, 2022, 10, 52030-52042.	4.2	22
11	Energy-Based Virtual Damping Control of FB-MMCs for HVDC Grid. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 7320-7328.	5.4	1
12	Enhanced Control of Offshore Wind Farms Connected to MTDC Network Using Partially Selective DC Fault Protection. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2926-2935.	5.4	13
13	An Integrated Control and Protection Scheme Based on FBSM-MMC Active Current Limiting Strategy for DC Distribution Network. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2632-2642.	5.4	15
14	A Unidirectional Hybrid HVDC Transmission System Based on Diode Rectifier and Full-Bridge MMC. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6974-6984.	5.4	20
15	Study on Half-Bridge Voltage Balancing Circuit with Two Driving Methods. Journal of Electrical Engineering and Technology, 2021, 16, 1505-1516.	2.0	2
16	Optimal short-circuit current control of the grid-forming converter during grid fault condition. IET Renewable Power Generation, 2021, 15, 2185-2194.	3.1	11
17	Simplified Modeling and Control of a GaN Switched-Capacitor Converters With Phase Shift Modulation. IEEE Transactions on Power Electronics, 2021, 36, 14550-14566.	7.9	1
18	Review of MVDC Applications, Technologies, and Future Prospects. Energies, 2021, 14, 8294.	3.1	26

#	ARTICLE	IF	CITATIONS
19	An Improved DC Fault Protection Algorithm for MMC HVDC Grids Based on Modal-Domain Analysis. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 4086-4099.	5.4	40
20	Control of Offshore MMC During Asymmetric Offshore AC Faults for Wind Power Transmission. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1074-1083.	5.4	34
21	A Low Conduction Loss Modular Multilevel Converter Topology With DC Fault Blocking Capability and Reduced Capacitance. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1299-1303.	3.0	13
22	Passive Integration Using FMLF Technique for Integrated Boost Resonant Converters. IEEE Transactions on Industrial Electronics, 2020, 67, 3756-3766.	7.9	12
23	Coordinated Control of Parallel DR-HVDC and MMC-HVDC Systems for Offshore Wind Energy Transmission. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2572-2582.	5.4	52
24	A Hybrid Modular Multilevel Converter With Reduced Full-Bridge Submodules. IEEE Transactions on Power Delivery, 2020, 35, 1876-1885.	4.3	13
25	An Interleaved Active Neutral-Point Clamped Nine-Level Converter. , 2020, , .		5
26	Analysis and Control of Offshore Wind Farms Connected With Diode Rectifier-Based HVDC System. IEEE Transactions on Power Delivery, 2020, 35, 2049-2059.	4.3	20
27	Differentiation Power Control of Modules in Second-Life Battery Energy Storage System Based on Cascaded H-Bridge Converter. IEEE Transactions on Power Electronics, 2020, 35, 6609-6624.	7.9	24
28	A Low Conduction Loss Modular Multilevel Converter Sub-Module Topology with DC Fault blocking Capability. , 2020, , .		4
29	RB-IGBT Based MMC Topologies with DC Fault Blocking Capability. , 2020, , .		0
30	Review of technologies for DC grids " power conversion, flow control and protection. IET Power Electronics, 2019, 12, 1851-1867.	2.1	33
31	A New Hybrid Modular Multilevel Converter With Integrated Energy Storage. IEEE Access, 2019, 7, 172981-172993.	4.2	18
32	Control and Optimization of Residential Photovoltaic Power Generation System With High Efficiency Isolated Bidirectional DC-DC Converter. IEEE Access, 2019, 7, 116107-116122.	4.2	68
33	A Novel Switched-Capacitor Converter With High Voltage Gain. IEEE Access, 2019, 7, 107831-107844.	4.2	31
34	Parallel operation of diode-rectifier based HVDC link and HVAC link for offshore wind power transmission. Journal of Engineering, 2019, 2019, 4713-4717.	1.1	10
35	Hierarchical control of offshore wind farm connected by parallel diode-rectifier-based HVDC and HVAC links. IET Renewable Power Generation, 2019, 13, 1493-1502.	3.1	15
36	Protection and post-fault recovery of large HVDC networks using partitioning and fast-acting DC breakers at strategic locations. Journal of Engineering, 2019, 2019, 2736-2742.	1.1	3

#	ARTICLE	IF	CITATIONS
37	Interoperability assessment of MMC and DRU connected offshore windfarms in meshed multi-terminal dc grids. , 2019, , .		0
38	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	3
39	Operation of a Novel Hybrid Modular Multilevel Energy Storage Converter under Fault Condition. , 2019, , .		1
40	A Novel Switched-Capacitor Converter with Phase Shift Modulation. , 2019, , .		0
41	Offshore AC Fault Protection of Diode Rectifier Unit-Based HVdc System for Wind Energy Transmission. IEEE Transactions on Industrial Electronics, 2019, 66, 5289-5299.	7.9	45
42	Review of DC fault protection for HVDC grids. Wiley Interdisciplinary Reviews: Energy and Environment, 2018, 7, e278.	4.1	15
43	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.	5.4	52
44	Distributed PLL-Based Control of Offshore Wind Turbines Connected With Diode-Rectifier-Based HVDC Systems. IEEE Transactions on Power Delivery, 2018, 33, 1328-1336.	4.3	81
45	An Optimization Method for Minimizing the Submodule Capacitance of Modular Multilevel Converter. , 2018, , .		6
46	Active Control of DC Fault Currents in DC Solid-State Transformers during Ride-Through Operation of Multi-Terminal HVDC Systems. , 2018, , .		0
47	DC Fault Protection of Diode Rectifier Unit Based HVDC System Connecting Offshore Wind Farms. , 2018, , .		13
48	Enhanced AC voltage and frequency control of offshore MMC station for wind farm connection. IET Renewable Power Generation, 2018, 12, 1771-1777.	3.1	24
49	Compact mixed cell modular multilevel converter. , 2018, , .		4
50	Enhanced Flat-Topped Modulation for MMC Control in HVDC Transmission Systems. IEEE Transactions on Power Delivery, 2017, 32, 152-161.	4.3	38
51	A novel MMC control scheme to increase the DC voltage in HVDC transmission systems. Electric Power Systems Research, 2017, 143, 544-553.	3.6	20
52	A novel and reliable modulation strategy for active neutral-point clamped five-level converter. , 2017, , .		6
53	Control of a cascaded STATCOM with battery energy storage system under unbalanced and distorted grid voltage conditions. Journal of Renewable and Sustainable Energy, 2017, 9, .	2.0	1
54	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.	5.4	76

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55	DC Fault Detection and Location in Meshed Multiterminal HVDC Systems Based on DC Reactor Voltage Change Rate. IEEE Transactions on Power Delivery, 2017, 32, 1516-1526.	4.3	278
56	A new hybrid MMC with integrated energy storage. , 2017, , .		4
57	Enhanced AC voltage and frequency control on offshore MMC station for wind farm. Journal of Engineering, 2017, 2017, 1264-1268.	1.1	14
58	Accelerated switching function model of hybrid MMCs for HVDC system simulation. IET Power Electronics, 2017, 10, 2199-2207.	2.1	20
59	AC Voltage Control of DC/DC Converters Based on Modular Multilevel Converters in Multi-Terminal High-Voltage Direct Current Transmission Systems. Energies, 2016, 9, 1064.	3.1	3
60	Submodule configuration of HVDCâ€”DC autotransformer considering DC fault. IET Power Electronics, 2016, 9, 2776-2785.	2.1	8
61	A series HVDC power tap using modular multilevel converters. , 2016, , .		6
62	Influence of third harmonic injection on modular multilevel converter â€”based highâ€”voltage direct current transmission systems. IET Generation, Transmission and Distribution, 2016, 10, 2764-2770.	2.5	62
63	A novel modulation strategy for isolated modular multilevel DC/DC converter's sub-module dc voltage oscillation damping. , 2016, , .		1
64	Hybrid modular multilevel converter with reduced three-level cells in HVDC transmission system. , 2016, , .		0
65	Hybrid modular multilevel converter based multiâ€”terminal DC/DC converter with minimised fullâ€”bridge submodules ratio considering DC fault isolation. IET Renewable Power Generation, 2016, 10, 1587-1596.	3.1	14
66	Energy transfer analysis for capacitor voltage balancing of modular multilevel converters. , 2016, , .		4
67	Active Control of DC Fault Currents in DC Solid-State Transformers During Ride-Through Operation of Multi-Terminal HVDC Systems. IEEE Transactions on Energy Conversion, 2016, 31, 1336-1346.	5.2	46
68	High-Frequency-Link-Based Grid-Tied PV System With Small DC-Link Capacitor and Low-Frequency Ripple-Free Maximum Power Point Tracking. IEEE Transactions on Power Electronics, 2016, 31, 328-339.	7.9	157
69	Review of modular multilevel converter based multi-terminal HVDC systems for offshore wind power transmission. Renewable and Sustainable Energy Reviews, 2016, 61, 572-586.	16.4	54
70	DC fault protection structures at a DCâ€”link node in a radial multiâ€”terminal highâ€”voltage direct current system. IET Renewable Power Generation, 2016, 10, 744-751.	3.1	10
71	Continuous Operation of Radial Multiterminal HVDC Systems Under DC Fault. IEEE Transactions on Power Delivery, 2016, 31, 351-361.	4.3	138
72	A Hybrid Modular Multilevel Converter With Novel Three-Level Cells for DC Fault Blocking Capability. IEEE Transactions on Power Delivery, 2015, 30, 2017-2026.	4.3	99

#	ARTICLE	IF	CITATIONS
73	Optimized Operation of Current-Fed Dual Active Bridge DC-DC Converter for PV Applications. IEEE Transactions on Industrial Electronics, 2015, 62, 6986-6995.	7.9	225
74	Modelling and control of modular multi-level converter based HVDC systems using symmetrical components. , 2015, , .		6
75	Hybrid Cascaded Modular Multilevel Converter With DC Fault Ride-Through Capability for the HVDC Transmission System. IEEE Transactions on Power Delivery, 2015, 30, 1853-1862.	4.3	112
76	A Zero-Voltage Switching Three-Phase Inverter. IEEE Transactions on Power Electronics, 2014, 29, 1200-1210.	7.9	95
77	Novel High-Efficiency Three-Level Stacked-Neutral-Point-Clamped Grid-Tied Inverter. IEEE Transactions on Industrial Electronics, 2013, 60, 3766-3774.	7.9	54
78	Parallel Operation of Full Power Converters in Permanent-Magnet Direct-Drive Wind Power Generation System. IEEE Transactions on Industrial Electronics, 2013, 60, 1619-1629.	7.9	121
79	Control of Parallel Multirectifiers for a Direct-Drive Permanent-Magnet Wind Power Generator. IEEE Transactions on Industry Applications, 2013, 49, 1687-1696.	4.9	15
80	Control strategy of series DC wind farm based on Z-source DC/DC converter. , 2012, , .		1
81	Control of Parallel Multiple Converters for Direct-Drive Permanent-Magnet Wind Power Generation Systems. IEEE Transactions on Power Electronics, 2012, 27, 1259-1270.	7.9	70
82	A ZVS Grid-Connected Three-Phase Inverter. IEEE Transactions on Power Electronics, 2012, 27, 3595-3604.	7.9	60
83	Application of interphase inductors for parallel generator-side converters in direct-drive wind turbine system. , 2012, , .		3
84	A Novel DC-Side Zero-Voltage Switching (ZVS) Three-Phase Boost PWM Rectifier Controlled by an Improved SVM Method. IEEE Transactions on Power Electronics, 2012, 27, 4391-4408.	7.9	37
85	A family of novel zero-voltage switching three-phase PWM converters topology for distributed generation. , 2011, , .		10
86	ZVZCS three-level DC-DC converter using passive clamping circuit. , 2008, , .		4
87	A ZVS DC-DC converter using non-dissipative snubber circuit. , 2008, , .		4
88	A Zero Voltage Switching SVM (ZVS-SVM) Controlled Three-Phase Boost Rectifier. IEEE Transactions on Power Electronics, 2007, 22, 978-986.	7.9	44