

Bin Li

List of Publications by Year in descending order

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107
papers

1,606
citations

279798

23
h-index

361022

35
g-index

110
all docs

110
docs citations

110
times ranked

1181
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on Calculation Method for Steady-State Short-Circuit Current of MMC During a DC Pole-to-Pole Fault. IEEE Transactions on Power Delivery, 2022, 37, 2492-2502.	4.3	3
2	Simplified calculation method of threshold value for the non-unit transient-voltage based protection in multi-terminal VSC-HVDC grid. International Journal of Electrical Power and Energy Systems, 2022, 134, 107435.	5.5	9
3	A reverse travelling wave differential protection scheme for DC lines in MMC-HVDC system with metallic return. International Journal of Electrical Power and Energy Systems, 2022, 135, 107521.	5.5	12
4	Intersystem fault between MMC-HVDC and AC systems and its impact on DC/AC protection. IET Generation, Transmission and Distribution, 2022, 16, 938-948.	2.5	3
5	The improved fault location method based on natural frequency in MMC-HVDC grid by combining FFT and MUSIC algorithms. International Journal of Electrical Power and Energy Systems, 2022, 137, 107816.	5.5	10
6	Mechanism of a novel mechanically operated contactless HTS energy converter. Energy, 2022, 241, 122832.	8.8	10
7	An Improved Hybrid DC Circuit Breaker With Self-Adaptive Fault Current Limiting Capability. IEEE Transactions on Power Electronics, 2022, 37, 4730-4741.	7.9	11
8	Dynamic Resistance of Series-Connected HTS Stacks Considering Electromagnetic and Thermal Coupling. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	11
9	A current-limiting DC circuit breaker with power flow control capability. IET Generation, Transmission and Distribution, 2022, 16, 1877-1889.	2.5	1
10	The Improved Topology and Control Strategy for the HCLC in the Multiterminal Flexible DC Grid. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1795-1807.	5.4	8
11	A Practical DC Fault Ride-Through Method for MMC Based MVDC Distribution Systems. IEEE Transactions on Power Delivery, 2021, 36, 2510-2519.	4.3	23
12	Ultra-fast current differential protection with high-sensitivity for HVDC transmission lines. International Journal of Electrical Power and Energy Systems, 2021, 126, 106580.	5.5	17
13	Research on power flow calculation method of true bipolar VSC-HVDC grids with different operation modes and control strategies. International Journal of Electrical Power and Energy Systems, 2021, 126, 106558.	5.5	21
14	Differential current integral based bipolar short-circuit protection method for DC distribution network with blocking converters. Electric Power Systems Research, 2021, 192, 106977.	3.6	4
15	Unbalanced currents of EHV multi-circuit lines and coordination of zero-sequence overcurrent relays. International Journal of Electrical Power and Energy Systems, 2021, 126, 106607.	5.5	3
16	Novel Reclosing Strategy Based on Transient Operating Voltage in Pseudobipolar DC System With Mechanical DCCB. IEEE Transactions on Power Electronics, 2021, 36, 4125-4133.	7.9	11
17	Investigation on FRT Capability of PMSG-Based Offshore Wind Farm Using the SFCL. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.7	5
18	Research on a current calculation method and characteristics of pole-to-ground faults in true bipolar MMC-HVDC grids considering line coupling. Electric Power Systems Research, 2021, 192, 106985.	3.6	9

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19	Adaptive reclosing strategy for the mechanical DC circuit breaker in VSC-HVDC grid. <i>Electric Power Systems Research</i> , 2021, 192, 107008.	3.6	7
20	The instantaneous dynamic resistance voltage of DC-carrying REBCO tapes to AC magnetic field. <i>Physica C: Superconductivity and Its Applications</i> , 2021, 583, 1353853.	1.2	12
21	Transient fault identification method for bipolar short-circuit fault on MMC-HVDC overhead lines based on hybrid HVDC breaker. <i>High Voltage</i> , 2021, 6, 881-893.	4.7	3
22	Research on the power distribution region and multiple constraint matching of modular multilevel converter. <i>International Transactions on Electrical Energy Systems</i> , 2021, 31, e12960.	1.9	0
23	An improved Fault Current Limiter for self-clearing MMC-based dc distribution network. , 2021, , .		0
24	Research on DC Protection Strategy in Multi-Terminal Hybrid HVDC System. <i>Engineering</i> , 2021, 7, 1064-1075.	6.7	11
25	Continuous operation of LVDC source/load under DC faults in MMC-DC distribution systems. <i>Electric Power Systems Research</i> , 2021, 194, 107065.	3.6	2
26	Short-term wind power prediction based on multidimensional data cleaning and feature reconfiguration. <i>Applied Energy</i> , 2021, 292, 116851.	10.1	51
27	The improved fault location method for flexible direct current grid based on clustering and iterating algorithm. <i>IET Renewable Power Generation</i> , 2021, 15, 3577.	3.1	1
28	An improved protection scheme of the ground electrode line based on two frequency components injection. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 129, 106901.	5.5	1
29	Study on Sustainable Current-Limiting Capability of a Saturation-Based dc I-SFCL Prototype. <i>IEEE Transactions on Applied Superconductivity</i> , 2021, 31, 1-5.	1.7	2
30	Further study of a novel inductive SFCL for multiterminal HVDC systems. <i>Superconductor Science and Technology</i> , 2021, 34, 114002.	3.5	11
31	Dynamic modelling methodology for an HTS energy converter using moving mesh. <i>Superconductor Science and Technology</i> , 2021, 34, 105006.	3.5	21
32	Modularization design methodology for high-voltage mechanical DC circuit breaker with current commutation drive circuit. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 131, 107019.	5.5	5
33	A Novel I-SFCL Concept for Application in Flexible DC Grid Considering the Operation Stability. <i>IEEE Transactions on Applied Superconductivity</i> , 2021, 31, 1-5.	1.7	1
34	Impacts of the Saturated Transformer on the HTS Flux Pump. <i>IEEE Transactions on Applied Superconductivity</i> , 2021, 31, 1-4.	1.7	6
35	Current limiting tests of a prototype 160 kV/1 kA resistive DC superconducting fault current limiter. <i>Superconductor Science and Technology</i> , 2021, 34, 014002.	3.5	16
36	Research on a New Single-End Fault Location Method for Single-Phase Grounding Faults of Transmission Lines Through Transition Resistance. <i>Frontiers in Energy Research</i> , 2021, 9, .	2.3	0

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37	A permanent fault identification method for single-pole grounding fault of overhead transmission lines in VSC-HVDC grid based on fault line voltage. International Journal of Electrical Power and Energy Systems, 2020, 117, 105603.	5.5	22
38	DC Faults Ride-Through and Fast Recovery of MVDC System Based on Improved HB-MMC. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3056-3066.	5.4	11
39	A Novel Current-Commutation-Based FCL for the Flexible DC Grid. IEEE Transactions on Power Electronics, 2020, 35, 591-606.	7.9	36
40	A Novel Method to Determine Droop Coefficients of DC Voltage Control for VSC-MTDC System. IEEE Transactions on Power Delivery, 2020, 35, 2196-2211.	4.3	41
41	A Novel DCCB Reclosing Strategy for the Flexible HVDC Grid. IEEE Transactions on Power Delivery, 2020, 35, 244-257.	4.3	45
42	Study on the distributed-parameter resistance earth model and potential distribution of the monopole-ground-return HVDC. Electric Power Systems Research, 2020, 187, 106478.	3.6	5
43	DC voltage deviationâ€dependent voltage droop control method for VSCâ€MTDC systems under large disturbances. IET Renewable Power Generation, 2020, 14, 891-896.	3.1	10
44	High-speed directional pilot protection for MVDC distribution systems. International Journal of Electrical Power and Energy Systems, 2020, 121, 106141.	5.5	13
45	An Improved Transient Traveling-Wave Based Direction Criterion for Multi-Terminal HVDC Grid. IEEE Transactions on Power Delivery, 2020, 35, 2517-2529.	4.3	35
46	Enabling the Smart and Flexible Management of Energy Prosumers via the Energy Router With Parallel Operation Mode. IEEE Access, 2020, 8, 35038-35047.	4.2	28
47	Modeling of the DC Inductive Superconducting Fault Current Limiter. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	13
48	Research on an Improved Protection Principle Based on Differential Voltage Traveling Wave for VSC-HVDC Transmission Lines. IEEE Transactions on Power Delivery, 2020, 35, 2319-2328.	4.3	33
49	Interaction characteristics between multiâ€port hybrid DC circuit breaker and MVDC distribution system under diversified working conditions. IET Renewable Power Generation, 2020, 14, 2720-2726.	3.1	3
50	R-Q curve based evaluation method for current-limiting performance of DC R-SFCL in high voltage DC system. Superconductor Science and Technology, 2020, 33, 084001.	3.5	3
51	Power quality enhancement and engineering application with high permeability distributed photovoltaic access to low-voltage distribution networks in Australia. Protection and Control of Modern Power Systems, 2020, 5, .	7.5	35
52	Working Principle and Basic Control Strategy of the VSC-HVDC Grid. Power Systems, 2020, , 13-39.	0.5	0
53	Design and parameter configuration of modular multilevel dynamic DC transformer for renewable energy sources. IET Power Electronics, 2020, 13, 4453-4461.	2.1	0
54	DC Fault Current Limiting Technique Based on the H-bridge Topology. Power Systems, 2020, , 155-182.	0.5	0

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55	Traveling-Wave Based Direction Protection for the Multi-terminal HVDC Grid. Power Systems, 2020, , 127-153.	0.5	0
56	DC Fault Current Limiting Technique Based on the Current Commutation. Power Systems, 2020, , 183-213.	0.5	0
57	High-Speed Differential Protection for the VSC-HVDC Grid. Power Systems, 2020, , 103-125.	0.5	0
58	The DCCB Reclosing Strategy in VSC-HVDC Grid. Power Systems, 2020, , 245-274.	0.5	0
59	Restart Control Strategy for the MMC-Based HVDC System. Power Systems, 2020, , 215-243.	0.5	0
60	DC Fault Characteristics of the VSC-HVDC System. Power Systems, 2020, , 41-63.	0.5	0
61	Improved sliding-mode control for MMC in DC power system. IET Renewable Power Generation, 2020, 14, 3035-3042.	3.1	4
62	Circuit Optimization of the HTS Transformer-rectifier Flux Pump. , 2020, , .		0
63	A Novel Solid-State Circuit Breaker With Self-Adapt Fault Current Limiting Capability for LVDC Distribution Network. IEEE Transactions on Power Electronics, 2019, 34, 3516-3529.	7.9	88
64	Study on the Charge Transfer Criterion for the Pole-to-Ground Fault in DC Distribution Networks. IEEE Access, 2019, 7, 102386-102396.	4.2	8
65	A Novel Single-Ended Transient-Voltage-Based Protection Strategy for Flexible DC Grid. IEEE Transactions on Power Delivery, 2019, 34, 1925-1937.	4.3	94
66	Inertia emulation and dynamic voltage support scheme for MMC-based dc systems. IET Renewable Power Generation, 2019, 13, 146-154.	3.1	8
67	Research on system dynamic performances of two/three-level VSC/MVDC distribution systems with different capacitor arrangement schemes. IET Generation, Transmission and Distribution, 2019, 13, 3855-3862.	2.5	3
68	A New Principle of Distance Protection for the UHV GIL-Overhead Hybrid Line Based on Frequency Domain Lossless Transmission Line Equation. Energies, 2019, 12, 4481.	3.1	1
69	Auto-Reclosing Strategy for Mechanical DCCB with Current Commutation Drive Circuit. , 2019, , .		0
70	A review of the protection for the multi-terminal VSC-HVDC grid. Protection and Control of Modern Power Systems, 2019, 4, .	7.5	38
71	Analysis and Experiment of a Micro-Loss Multi-Port Hybrid DCCB for MVDC Distribution System. IEEE Transactions on Power Electronics, 2019, 34, 7933-7941.	7.9	42
72	Research on the Parameter Matching Between Active SI-SFCL and DC Circuit Breaker in DC systems. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	15

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73	Current-limiting characteristics of saturated iron-core fault current limiters in VSC-HVDC systems based on electromagnetic energy conversion mechanism. <i>Journal of Modern Power Systems and Clean Energy</i> , 2019, 7, 412-421.	5.4	10
74	Research on the Coordinated Control of the True Bipolar VSC-HVdc Grid Based on Operating Point Optimization. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 6692-6702.	7.9	17
75	No-Load Dielectric Recovery of the Ultra-Fast Vacuum Switch in Hybrid DC Circuit Breaker. <i>IEEE Transactions on Power Delivery</i> , 2019, 34, 840-847.	4.3	7
76	Computationally efficient modeling method of MMC based on arm equivalent time-variant capacitance. <i>International Transactions on Electrical Energy Systems</i> , 2019, 29, e2732.	1.9	1
77	Scene learning: Deep convolutional networks for wind power prediction by embedding turbines into grid space. <i>Applied Energy</i> , 2019, 238, 249-257.	10.1	58
78	A novel restart control strategy for the MMC-based HVDC transmission system. <i>International Journal of Electrical Power and Energy Systems</i> , 2018, 99, 465-473.	5.5	23
79	Study of the Application of Active Saturated Iron-Core Superconductive Fault Current Limiters in the VSC-HVDC System. <i>IEEE Transactions on Applied Superconductivity</i> , 2018, 28, 1-6.	1.7	25
80	Technical Assessment of Hybrid DCCB With Improved Current Commutation Drive Circuit. <i>IEEE Transactions on Industry Applications</i> , 2018, 54, 5456-5464.	4.9	24
81	Transient Current Interruption Characteristics of a Novel Mechanical DC Circuit Breaker. <i>IEEE Transactions on Power Electronics</i> , 2018, , 1-1.	7.9	36
82	Technical Requirements of the DC Superconducting Fault Current Limiter. <i>IEEE Transactions on Applied Superconductivity</i> , 2018, , 1-1.	1.7	21
83	Study on Dielectric Recovery Strength of High Voltage SF6 Circuit Breaker for no-load Interruption (July 2018). , 2018, , .		1
84	Research on Power Flow Calculation and Optimization Method of Real Bipolar VSC-HVDC Grid under Asymmetrical Mode. , 2018, , .		2
85	Research on Verification Technology of Partial Discharge Ultra High Frequency Detection System of Combined Electric Appliance. , 2018, , .		0
86	Dynamic Analysis of a New Type of Asymmetrical Parallel Mechanism Based on Lagrange Method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 428, 012074.	0.6	0
87	Research on the coordination between the Active SI-SFCL and DC Circuit Breaker in DC systems. , 2018, , .		2
88	Fault Studies and Distance Protection of Transmission Lines Connected to DFIG-Based Wind Farms. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 562.	2.5	23
89	Circuit Breaker Rate-of-Rise Recovery Voltage in Ultra-High Voltage Lines with Hybrid Reactive Power Compensation. <i>Energies</i> , 2018, 11, 100.	3.1	6
90	Analysis of the fault current limiting requirement and design of the bridge-type FCL in the multi-terminal DC grid. <i>IET Power Electronics</i> , 2018, 11, 968-976.	2.1	34

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91	DC fault analysis for modular multilevel converter-based system. Journal of Modern Power Systems and Clean Energy, 2017, 5, 275-282.	5.4	70
92	Design and Application of the SFCL in the Modular Multilevel Converter Based DC System. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.7	34
93	A DC fault handling method of the MMC-based DC system. International Journal of Electrical Power and Energy Systems, 2017, 93, 39-50.	5.5	25
94	The characteristics of secondary arc current in UHV transmission line with hybrid reactive power compensation. , 2017, , .		0
95	Kinematics analysis of a four degree-of-freedom parallel manipulator. , 2017, , .		1
96	Current limiting methods for VSC-based DC distribution systems. Energy Procedia, 2017, 142, 2257-2263.	1.8	2
97	Kinematic and workspace analysis of a novel cable-driven parallel manipulator. , 2017, , .		1
98	Development process and analytical method of the pole-to-pole DC fault in the MMC-MVDC system. IET Power Electronics, 2017, 10, 2085-2091.	2.1	15
99	Research on Saturated Iron-Core Superconductive Fault Current Limiters Applied in VSC-HVDC Systems. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	39
100	Loss-of-field excitation analysis and protection for pumped storage machines during starting. IET Renewable Power Generation, 2016, 10, 71-78.	3.1	12
101	Studies on the Application of R-SFCL in the VSC-Based DC Distribution System. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	72
102	Zero-sequence voltages of UHV untransposed double-circuit lines and their influence on pilot protection. , 2015, , .		1
103	Application Studies on the Active SISFCL in Electric Transmission System and Its Impact on Line Distance Protection. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-9.	1.7	22
104	Short-circuit analysis of pumped storage unit during back-to-back starting. IET Renewable Power Generation, 2015, 9, 99-108.	3.1	6
105	Circulating Unbalanced Currents of EHV/UHV Untransposed Double-Circuit Lines and Their Influence on Pilot Protection. IEEE Transactions on Power Delivery, 2014, 29, 825-833.	4.3	26
106	Novel principle and adaptive scheme of phase correlation line current differential protection. International Transactions on Electrical Energy Systems, 2013, 23, 733-750.	1.9	11
107	Special Problems in Current Differential Protection Based on Bergeron Model. , 2009, , .		8