Bin Li

List of Publications by Year
in descending order

107	1,606	279798	361022
papers	citations	23 h-index	35 g-index

110	110	110	1181
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	DC fault analysis for modular multilevel converter-based system. Journal of Modern Power Systems and Clean Energy, 2017, 5, 275-282.	5.4	70
5	Scene learning: Deep convolutional networks for wind power prediction by embedding turbines into grid space. Applied Energy, 2019, 238, 249-257.	10.1	58
6	Short-term wind power prediction based on multidimensional data cleaning and feature reconfiguration. Applied Energy, 2021, 292, 116851.	10.1	51
7	A Novel DCCB Reclosing Strategy for the Flexible HVDC Grid. IEEE Transactions on Power Delivery, 2020, 35, 244-257.	4.3	45
8	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
9	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
10	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
11	A review of the protection for the multi-terminal VSC-HVDC grid. Protection and Control of Modern Power Systems, 2019, 4, .	7.5	38
12	Transient Current Interruption Characteristics of a Novel Mechanical DC Circuit Breaker. IEEE Transactions on Power Electronics, 2018, , 1-1.	7.9	36
13	A Novel Current-Commutation-Based FCL for the Flexible DC Grid. IEEE Transactions on Power Electronics, 2020, 35, 591-606.	7.9	36
14	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
15	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
16	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
17	Analysis of the fault current limiting requirement and design of the bridgeâ€type FCL in the multiâ€terminal DC grid. IET Power Electronics, 2018, 11, 968-976.	2.1	34
18	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

#	Article	IF	Citations
19	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
20	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
21	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
22	Study of the Application of Active Saturated Iron-Core Superconductive Fault Current Limiters in the VSC-HVDC System. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.	1.7	25
23	Technical Assessment of Hybrid DCCB With Improved Current Commutation Drive Circuit. IEEE Transactions on Industry Applications, 2018, 54, 5456-5464.	4.9	24
24	A novel restart control strategy for the MMC-based HVDC transmission system. International Journal of Electrical Power and Energy Systems, 2018, 99, 465-473.	5.5	23
25	Fault Studies and Distance Protection of Transmission Lines Connected to DFIG-Based Wind Farms. Applied Sciences (Switzerland), 2018, 8, 562.	2.5	23
26	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
27	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
28	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
29	Technical Requirements of the DC Superconducting Fault Current Limiter. IEEE Transactions on Applied Superconductivity, 2018, , 1-1.	1.7	21
30	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
31	Dynamic modelling methodology for an HTS energy converter using moving mesh. Superconductor Science and Technology, 2021, 34, 105006.	3.5	21
32	Research on the Coordinated Control of the True Bipolar VSC-HVdc Grid Based on Operating Point Optimization. IEEE Transactions on Industrial Electronics, 2019, 66, 6692-6702.	7.9	17
33	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
34	Current limiting tests of a prototype 160 kV/1 kA resistive DC superconducting fault current limiter. Superconductor Science and Technology, 2021, 34, 014002.	3.5	16
35	Development process and analytical method of the poleâ€toâ€pole DC fault in the MMCâ€MVDC system. IET Power Electronics, 2017, 10, 2085-2091.	2.1	15
36	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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37	High-speed directional pilot protection for MVDC distribution systems. International Journal of Electrical Power and Energy Systems, 2020, 121, 106141.	5.5	13
38	Modeling of the DC Inductive Superconducting Fault Current Limiter. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	13
39	Lossâ€ofâ€excitation analysis and protection for pumpedâ€storage machines during starting. IET Renewable Power Generation, 2016, 10, 71-78.	3.1	12
40	The instantaneous dynamic resistance voltage of DC-carrying REBCO tapes to AC magnetic field. Physica C: Superconductivity and Its Applications, 2021, 583, 1353853.	1.2	12
41	A reverse travelling wave differential protection scheme for DC lines in MMCâ€“HVDC system with metallic return. International Journal of Electrical Power and Energy Systems, 2022, 135, 107521.	5.5	12
42	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
43	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
44	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
45	Research on DC Protection Strategy in Multi-Terminal Hybrid HVDC System. Engineering, 2021, 7, 1064-1075.	6.7	11
46	Further study of a novel inductive SFCL for multiterminal HVDC systems. Superconductor Science and Technology, 2021, 34, 114002.	3.5	11
47	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
48	Dynamic Resistance of Series-Connected HTS Stacks Considering Electromagnetic and Thermal Coupling. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	11
49	Current-limiting characteristics of saturated iron-core fault current limiters in VSC-HVDC systems based on electromagnetic energy conversion mechanism. Journal of Modern Power Systems and Clean Energy, 2019, 7, 412-421.	5.4	10
50	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
51	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
52	Mechanism of a novel mechanically operated contactless HTS energy converter. Energy, 2022, 241, 122832.	8.8	10
53	Research on a current calculation method and characteristics of pole-to-ground faults in true bipolar MMC-HVDC grids considering line couplingâœ°. Electric Power Systems Research, 2021, 192, 106985.	3.6	9
54	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

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55	Special Problems in Current Differential Protection Based on Bergeron Model. , 2009, , .		8
56	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
57	Inertia emulation and dynamic voltage support scheme for MMCâ€based dc systems. IET Renewable Power Generation, 2019, 13, 146-154.	3.1	8
58	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
59	No-Load Dielectric Recovery of the Ultra-Fast Vacuum Switch in Hybrid DC Circuit Breaker. IEEE Transactions on Power Delivery, 2019, 34, 840-847.	4.3	7
60	Adaptive reclosing strategy for the mechanical DC circuit breaker in VSC-HVDC grid. Electric Power Systems Research, 2021, 192, 107008.	3.6	7
61	Shortâ€circuit analysis of pumped storage unit during backâ€toâ€back starting. IET Renewable Power Generation, 2015, 9, 99-108.	3.1	6
62	Circuit Breaker Rate-of-Rise Recovery Voltage in Ultra-High Voltage Lines with Hybrid Reactive Power Compensation. Energies, 2018, 11, 100.	3.1	6
63	Impacts of the Saturated Transformer on the HTS Flux Pump. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.7	6
64	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
65	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
66	Modularization design methodology for high-voltage mechanical DC circuit breaker with current commutation drive circuit. International Journal of Electrical Power and Energy Systems, 2021, 131, 107019.	5.5	5
67	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
68	Improved slidingâ€mode control for MMC in DC power system. IET Renewable Power Generation, 2020, 14, 3035-3042.	3.1	4
69	Research on system dynamic performances of twoâ€/threeâ€level VSCâ€“MVDC distribution systems with different capacitor arrangement schemes. IET Generation, Transmission and Distribution, 2019, 13, 3855-3862.	2.5	3
70	Unbalanced currents of EHV multi-circuit lines and coordination of zero-sequence overcurrent relayings. International Journal of Electrical Power and Energy Systems, 2021, 126, 106607.	5.5	3
71	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
72	Transient fault identification method for bipolar shortâ€circuit fault on MMCâ€HVDC overhead lines based on hybrid HVDC breaker. High Voltage, 2021, 6, 881-893.	4.7	3

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73	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
74	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
75	Intersystem fault between MMCâ€HVDC and AC systems and its impact on DC/AC protection. IET Generation, Transmission and Distribution, 2022, 16, 938-948.	2.5	3
76	Current limiting methods for VSC-based DC distribution systems. Energy Procedia, 2017, 142, 2257-2263.	1.8	2
77	Research on Power Flow Calculation and Optimization Method of Real Bipolar VSC-HVDC Grid under Asymmetrical Mode. , 2018, , .		2
78	Research on the coordination between the Active SI-SFCL and DC Circuit Breaker in DC systems. , 2018, , .		2
79	Continuous operation of LVDC source/load under DC faults in MMC-DC distribution systems. Electric Power Systems Research, 2021, 194, 107065.	3.6	2
80	Study on Sustainable Current-Limiting Capability of a Saturation-Based dc I-SFCL Prototype. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	2
81	Zero-sequence voltages of UHV untransposed double-circuit lines and their influence on pilot protection. , 2015, , .		1
82	Kinematics analysis of a four degree-of-freedom parallel manipulator. , 2017, , .		1
83	Kinematic and workspace analysis of a novel cable-driven parallel manipulator. , 2017, , .		1
84	Study on Dielectric Recovery Strength of High Voltage SF6 Circuit Breaker for no-load Interruption (July 2018). , 2018, , .		1
85	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
86	Computationally efficient modeling method of MMC based on arm equivalent time-variant capacitance. International Transactions on Electrical Energy Systems, 2019, 29, e2732.	1.9	1
87	The improved fault location method for flexible direct current grid based on clustering and iterating algorithm. IET Renewable Power Generation, 2021, 15, 3577.	3.1	1
88	An improved protection scheme of the ground electrode line based on two frequency components injection. International Journal of Electrical Power and Energy Systems, 2021, 129, 106901.	5.5	1
89	A Novel I-SFCL Concept for Application in Flexible DC Grid Considering the Operation Stability. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	1
90	A currentâ€limiting DC circuit breaker with power flow control capability. IET Generation, Transmission and Distribution, 2022, 16, 1877-1889.	2.5	1

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91	The characteristics of secondary arc current in UHV transmission line with hybrid reactive power compensation. , 2017, , .		0
92	Research on Verification Technology of Partial Discharge Ultra High Frequency Detection System of Combined Electric Appliance. , 2018, , .		0
93	Dynamic Analysis of a New Type of Asymmetrical Parallel Mechanism Based on Lagrange Method. IOP Conference Series: Materials Science and Engineering, 2018, 428, 012074.	0.6	0
94	Auto-Reclosing Strategy for Mechanical DCCB with Current Commutation Drive Circuit. , 2019, , .		0
95	Research on the power distribution region and multiple constraint matching of modular multilevel converter. International Transactions on Electrical Energy Systems, 2021, 31, e12960.	1.9	0
96	An improved Fault Current Limiter for self-clearing MMC-based dc distribution network. , 2021, , .		0
97	Working Principle and Basic Control Strategy of the VSC-HVDC Grid. Power Systems, 2020, , 13-39.	0.5	0
98	Design and parameter configuration of modular multilevel dynamic DC transformer for renewable energy sources. IET Power Electronics, 2020, 13, 4453-4461.	2.1	0
99	DC Fault Current Limiting Technique Based on the H-bridge Topology. Power Systems, 2020, , 155-182.	0.5	0
100	Traveling-Wave Based Direction Protection for the Multi-terminal HVDC Grid. Power Systems, 2020, , 127-153.	0.5	0
101	DC Fault Current Limiting Technique Based on the Current Commutation. Power Systems, 2020, , 183-213.	0.5	0
102	High-Speed Differential Protection for the VSC-HVDC Grid. Power Systems, 2020, , 103-125.	0.5	0
103	The DCCB Reclosing Strategy in VSC-HVDC Grid. Power Systems, 2020, , 245-274.	0.5	0
104	Restart Control Strategy for the MMC-Based HVDC System. Power Systems, 2020, , 215-243.	0.5	0
105	DC Fault Characteristics of the VSC-HVDC System. Power Systems, 2020, , 41-63.	0.5	0
106	Circuit Optimization of the HTS Transformer-rectifier Flux Pump. , 2020, , .		0
107	Research on a New Single-End Fault Location Method for Single-Phase Grounding Faults of Transmission Lines Through Transition Resistance. Frontiers in Energy Research, 2021, 9, .	2.3	0