Lie Xu

List of Publications by Year
in descending order

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79 papers	8,921 citations	87723 38 h-index	114278 63 g-index
81 all docs	81 docs citations	81 times ranked	4946 citing authors

#	Article	IF	Citations
1	MMC Impedance Modeling and Interaction of Converters in Close Proximity. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 7223-7236.	3.7	9
2	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.	3.7	13
3	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.	3.7	20
4	Microgrid design using folded P-f droop and new grid interface unit to minimize the need for communication. International Journal of Electrical Power and Energy Systems, 2021, 130, 106949.	3.3	2
5	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.	3.7	34
6	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.	3.7	52
7	A Novel Method to Determine Droop Coefficients of DC Voltage Control for VSC-MTDC System. IEEE Transactions on Power Delivery, 2020, 35, 2196-2211.	2.9	41
8	Hybrid AC/DC hub for integrating onshore wind power and interconnecting onshore and offshore DC networks. IET Renewable Power Generation, 2020, 14, 1738-1745.	1.7	6
9	Flexible Virtual Synchronous Generator Control for Distributed Generator with Adaptive Inertia. Electric Power Components and Systems, 2019, 47, 128-140.	1.0	16
10	Offshore AC Fault Protection of Diode Rectifier Unit-Based HVdc System for Wind Energy Transmission. IEEE Transactions on Industrial Electronics, 2019, 66, 5289-5299.	5.2	45
11	Detailed quantitative comparison of halfâ€bridge modular multilevel converter modelling methods. Journal of Engineering, 2019, 2019, 1292-1298.	0.6	13
12	Adjustable Inertial Response From the Converter With Adaptive Droop Control in DC Grids. IEEE Transactions on Smart Grid, 2019, 10, 3198-3209.	6.2	54
13	Impact of DC protection strategy of large HVDC network on frequency response of the connected AC system. Journal of Engineering, 2019, 2019, 4031-4035.	0.6	4
14	A Nearest Level PWM Method for the MMC in DC Distribution Grids. IEEE Transactions on Power Electronics, 2018, 33, 9209-9218.	5.4	80
15	Review of DC fault protection for HVDC grids. Wiley Interdisciplinary Reviews: Energy and Environment, 2018, 7, e278.	1.9	15
16	Enhanced Independent Pole Control of Hybrid MMC-HVdc System. IEEE Transactions on Power Delivery, 2018, 33, 861-872.	2.9	73
17	Distributed PLL-Based Control of Offshore Wind Turbines Connected With Diode-Rectifier-Based HVDC Systems. IEEE Transactions on Power Delivery, 2018, 33, 1328-1336.	2.9	81
18	Decoupled TAB converter with energy storage system for HVDC power system of more electric aircraft. Journal of Engineering, 2018, 2018, 593-602.	0.6	20

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19	Enhanced AC voltage and frequency control of offshore MMC station for wind farm connection. IET Renewable Power Generation, 2018, 12, 1771-1777.	1.7	24
20	Enhanced Flat-Topped Modulation for MMC Control in HVDC Transmission Systems. IEEE Transactions on Power Delivery, 2017, 32, 152-161.	2.9	38
21	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.	2.9	278
22	Accelerated switching function model of hybrid MMCs for HVDC system simulation. IET Power Electronics, 2017, 10, 2199-2207.	1.5	20
23	AC and DC Microgrid with Distributed Energy Resources. , 2017, , 39-64.		8
24	Frequency support using multiâ€terminal HVDC systems based on DC voltage manipulation. IET Renewable Power Generation, 2016, 10, 1393-1401.	1.7	16
25	A Novel Grid Connection Method for DFIG Based on Direct Power Control. , 2016, , .		2
26	Protection of large partitioned MTDC Networks Using DC-DC converters and circuit breakers. Protection and Control of Modern Power Systems, 2016, 1, .	4.3	38
27	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.	1.7	14
28	DC fault protection strategy considering DC network partition. , 2016, , .		18
29	A novel method for obtaining virtual inertial response of DFIGâ€based wind turbines. Wind Energy, 2016, 19, 313-328.	1.9	15
30	Analysis and Control of Modular Multilevel Converters under Asymmetric Arm Impedance Conditions. IEEE Transactions on Industrial Electronics, 2016, 63, 71-81.	5.2	47
31	Continuous Operation of Radial Multiterminal HVDC Systems Under DC Fault. IEEE Transactions on Power Delivery, 2016, 31, 351-361.	2.9	138
32	Hybrid HVDC for Integrating Wind Farms With Special Consideration on Commutation Failure. IEEE Transactions on Power Delivery, 2016, 31, 789-797.	2.9	97
33	Modeling and Control of a Multiport Power Electronic Transformer (PET) for Electric Traction Applications. IEEE Transactions on Power Electronics, 2016, 31, 915-927.	5.4	159
34	Active Distribution Power System with Multi-terminal MVDC Links. , 2015, , .		1
35	Analysis of voltage source converterâ€based highâ€voltage direct current under DC lineâ€toâ€earth fault. IET Power Electronics, 2015, 8, 428-438.	1.5	41
36	A Hybrid Modular Multilevel Converter With Novel Three-Level Cells for DC Fault Blocking Capability. IEEE Transactions on Power Delivery, 2015, 30, 2017-2026.	2.9	99

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37	Control of PMSG-Based Wind Turbines for System Inertial Response and Power Oscillation Damping. IEEE Transactions on Sustainable Energy, 2015, 6, 565-574.	5.9	284
38	DC/DC Converters Based on Hybrid MMC for HVDC Grid Interconnection. , 2015, , .		23
39	Precharging and DC Fault Ride-Through of Hybrid MMC-Based HVDC Systems. IEEE Transactions on Power Delivery, 2015, 30, 1298-1306.	2.9	153
40	Design and Operation of a Hybrid Modular Multilevel Converter. IEEE Transactions on Power Electronics, 2015, 30, 1137-1146.	5.4	368
41	An improved modular multilevel converter with DC fault blocking capability. , 2014, , .		36
42	DC microgrid dynamic performance assessment and enhancement based on virtual impedance method. , 2014, , .		2
43	Key technologies of VSC-HVDC and its application on offshore wind farm in China. Renewable and Sustainable Energy Reviews, 2014, 36, 247-255.	8.2	35
44	Slidingâ€mode control of a wind turbineâ€driven doubleâ€fed induction generator under nonâ€ideal grid voltages. IET Renewable Power Generation, 2013, 7, 370-379.	1.7	84
45	Power oscillation damping using wind turbines with energy storage systems. IET Renewable Power Generation, 2013, 7, 449-457.	1.7	41
46	DC Voltage Variation Based Autonomous Control of DC Microgrids. IEEE Transactions on Power Delivery, 2013, 28, 637-648.	2.9	261
47	Autonomous DC Voltage Control of a DC Microgrid With Multiple Slack Terminals. IEEE Transactions on Power Systems, 2012, 27, 1897-1905.	4.6	251
48	Coordinated DC Voltage Control of Wind Turbine With Embedded Energy Storage System. IEEE Transactions on Energy Conversion, 2012, 27, 1036-1045.	3.7	39
49	Direct power control of doubly-fed-induction-generator-based wind turbines under asymmetrical grid voltage dips. , 2012, , .		1
50	DC network stability and dynamic analysis using virtual impedance method. , 2012, , .		16
51	Fault Ride-Through of HVDC Connected Large Offshore Wind Farms. Green Energy and Technology, 2012, , 415-430.	0.4	0
52	Reduced Switching-Frequency Modulation and Circulating Current Suppression for Modular Multilevel Converters. IEEE Transactions on Power Delivery, 2011, 26, 2009-2017.	2.9	1,202
53	Wind turbines with energy storage for power smoothing and FRT enhancement. , 2011, , .		11
54	Control and Operation of a DC Microgrid With Variable Generation and Energy Storage. IEEE Transactions on Power Delivery, 2011, 26, 2513-2522.	2.9	510

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55	Improved rotor current control of wind turbine driven doubly-fed induction generators during network voltage unbalance. Electric Power Systems Research, 2010, 80, 847-856.	2.1	38
56	The Role of Multiterminal HVDC for Wind Power Transmission and AC Network Support. , 2010, , .		7
57	Model-Based Predictive Direct Power Control of Doubly Fed Induction Generators. IEEE Transactions on Power Electronics, 2010, 25, 341-351.	5.4	201
58	Coordinated Control of DFIG and FSIG-Based Wind Farms Under Unbalanced Grid Conditions. IEEE Transactions on Power Delivery, 2010, 25, 367-377.	2.9	82
59	Contribution of VSC-HVDC connected wind farms to grid frequency regulation and power damping. , 2010, , .		12
60	Improved Direct Power Control of Grid-Connected DC/AC Converters. IEEE Transactions on Power Electronics, 2009, 24, 1280-1292.	5.4	177
61	Improved rotor current control of wind turbine driven doubly fed induction generators during network unbalance. , 2009, , .		3
62	Predictive Current Control of Doubly Fed Induction Generators. IEEE Transactions on Industrial Electronics, 2009, 56, 4143-4153.	5.2	93
63	Dynamic modeling and direct power control of wind turbine driven DFIG under unbalanced network voltage conditions. Journal of Zhejiang University: Science A, 2008, 9, 1731-1740.	1.3	20
64	Coordinated Control of DFIG's Rotor and Grid Side Converters During Network Unbalance. IEEE Transactions on Power Electronics, 2008, 23, 1041-1049.	5.4	306
65	Control of an LCC HVDC system for connecting large offshore wind farms with special consideration of grid fault. , 2008, , .		37
66	Multi-terminal DC transmission systems for connecting large offshore wind farms. , 2008, , .		104
67	Enhanced Control and Operation of DFIG-Based Wind Farms During Network Unbalance. IEEE Transactions on Energy Conversion, 2008, 23, 1073-1081.	3.7	191
68	Control of DFIG-based wind farms for network unbalance compensation. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	7
69	Improved operation of DFIG and FSIG-based wind farms during network unbalance. , 2008, , .		2
70	Direct Power Control of DFIG With Constant Switching Frequency and Improved Transient Performance. IEEE Transactions on Energy Conversion, 2007, 22, 110-118.	3.7	350
71	Grid Integration of Large DFIG-Based Wind Farms Using VSC Transmission. IEEE Transactions on Power Systems, 2007, 22, 976-984.	4.6	344
72	VSC Transmission System Using Flying Capacitor Multilevel Converters and Hybrid PWM Control. IEEE Transactions on Power Delivery, 2007, 22, 693-702.	2.9	72

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73	Dynamic Modeling and Control of DFIG-Based Wind Turbines Under Unbalanced Network Conditions. IEEE Transactions on Power Systems, 2007, 22, 314-323.	4.6	517
74	Grid connection of large offshore wind farms using HVDC. Wind Energy, 2006, 9, 371-382.	1.9	140
75	Direct Active and Reactive Power Control of DFIG for Wind Energy Generation. IEEE Transactions on Energy Conversion, 2006, 21, 750-758.	3.7	604
76	VSC Transmission Operating Under Unbalanced AC Conditionsâ€"Analysis and Control Design. IEEE Transactions on Power Delivery, 2005, 20, 427-434.	2.9	188
77	Hybrid HVDC System for Power Transmission to Island Networks. IEEE Transactions on Power Delivery, 2004, 19, 1884-1890.	2.9	123
78	HVDC transmission for large offshore wind farms. Power Engineering Journal, 2002, 16, 135-141.	0.2	214
79	Acoustic noise radiated by PWM-controllel induction machine drives. IEEE Transactions on Industrial Electronics, 2000, 47, 880-889.	5.2	140