

Heng Wu

List of Publications by Year in descending order

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29
papers

2,364
citations

567281

15
h-index

888059

17
g-index

29
all docs

29
docs citations

29
times ranked

1429
citing authors

#	ARTICLE	IF	CITATIONS
1	Small-Signal Modeling and Parameters Design for Virtual Synchronous Generators. IEEE Transactions on Industrial Electronics, 2016, 63, 4292-4303.	7.9	494
2	Impedance Shaping of the Grid-Connected Inverter with LCL Filter to Improve Its Adaptability to the Weak Grid Condition. IEEE Transactions on Power Electronics, 2014, 29, 5795-5805.	7.9	392
3	Grid-Synchronization Stability of Converter-Based Resources—An Overview. IEEE Open Journal of Industry Applications, 2020, 1, 115-134.	6.5	329
4	Design-Oriented Transient Stability Analysis of PLL-Synchronized Voltage-Source Converters. IEEE Transactions on Power Electronics, 2020, 35, 3573-3589.	7.9	228
5	Design-Oriented Transient Stability Analysis of Grid-Connected Converters With Power Synchronization Control. IEEE Transactions on Industrial Electronics, 2019, 66, 6473-6482.	7.9	174
6	A Real-Time Computation Method With Dual Sampling Mode to Improve the Current Control Performance of the LCL-Type Grid-Connected Inverter. IEEE Transactions on Industrial Electronics, 2015, 62, 4563-4572.	7.9	170
7	A Mode-Adaptive Power-Angle Control Method for Transient Stability Enhancement of Virtual Synchronous Generators. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1034-1049.	5.4	96
8	Voltage-Modulated Direct Power Control for a Weak Grid-Connected Voltage Source Inverters. IEEE Transactions on Power Electronics, 2019, 34, 11383-11395.	7.9	77
9	Impedance-Based Stability Analysis of Voltage-Controlled MMCs Feeding Linear AC Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 4060-4074.	5.4	59
10	Transient Stability Impact of the Phase-Locked Loop on Grid-Connected Voltage Source Converters. , 2018, , .		49
11	Dynamic Impact of Zero-Sequence Circulating Current on Modular Multilevel Converters: Complex-Valued AC Impedance Modeling and Analysis. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1947-1963.	5.4	43
12	PLL Synchronization Stability Analysis of MMC-Connected Wind Farms Under High-Impedance AC Faults. IEEE Transactions on Power Systems, 2021, 36, 2251-2261.	6.5	35
13	AC Impedance Modeling of Modular Multilevel Converters and Two-Level Voltage-Source Converters: Similarities and Differences. , 2018, , .		34
14	Suppression of synchronous resonance for VSGs. Journal of Engineering, 2017, 2017, 2574-2579.	1.1	30
15	Transient angle stability analysis of grid-connected converters with the first-order active power loop. , 2018, , .		23
16	Virtual-Flux-Based Passivation of Current Control for Grid-Connected VSCs. IEEE Transactions on Power Electronics, 2020, 35, 12673-12677.	7.9	22
17	Small-Signal Modeling and Controller Parameters Tuning of Grid-Forming VSCs With Adaptive Virtual Impedance-Based Current Limitation. IEEE Transactions on Power Electronics, 2022, 37, 7185-7199.	7.9	21
18	An Adaptive Phase-Locked Loop for the Transient Stability Enhancement of Grid-Connected Voltage Source Converters. , 2018, , .		20

#	ARTICLE	IF	CITATIONS
19	Passivity-Based Dual-Loop Vector Voltage and Current Control for Grid-Forming VSCs. IEEE Transactions on Power Electronics, 2021, 36, 8647-8652.	7.9	18
20	Step-by-step controller design of voltage closed-loop control for virtual synchronous generator. , 2015, , .		15
21	Using virtual impedance network to improve the control performances of LCL-type grid-connected inverter under the weak grid condition. , 2014, , .		11
22	Voltage Stability and Transient Symmetrical Fault Current Control of Voltage-Controlled MMCs. IEEE Transactions on Power Delivery, 2020, 35, 2506-2516.	4.3	7
23	An AC Fault Ride Through Method for MMC-HVDC System in Offshore Applications Including DC Current-Limiting Inductors. IEEE Transactions on Power Delivery, 2022, 37, 2818-2830.	4.3	7
24	A modified grid voltage feedforward method to improve the stability-robustness of the grid-connected voltage source converter under weak grid conditions. , 2016, , .		3
25	Dynamic Impact of Voltage-Dependent Current Injection on Fault-Ride-Through of Grid-Following Converters. , 2021, , .		3
26	Passivity-Based Harmonic Stability Analysis of Voltage Source Converters Considering the Impact of Sequence Decomposition Algorithms. , 2020, , .		3
27	General power control methods for distributed generation sources and its stability analysis based on unified power models. , 2016, , .		1
28	Voltage Stability and Transient Fault Current Limitation of Voltage-Controlled MMCs with L-Filters. , 2019, , .		0
29	Transient Stability Analysis of MMC-Connected PMSGs Under High-impedance Faults. , 2020, , .		0