Chao Wu

List of Publications by Year
in descending order

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48	789	471509 17	552781 26
papers	citations	h-index	g-index

48	48	48	422
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modified Deadbeat Predictive Current Control Method for Single-Phase ACâ€“DC PFC Converter in EV Charging System. IEEE Transactions on Industrial Electronics, 2023, 70, 286-297.	7.9	16
2	Effects of Virtual Resistance on Transient Stability of Virtual Synchronous Generators Under Grid Voltage Sag. IEEE Transactions on Industrial Electronics, 2022, 69, 4754-4764.	7.9	40
3	Resonating Power Decoupling Using Multifunctional Bidirectional DC/DC Converter in Hybrid Railway Traction Application. IEEE Transactions on Power Electronics, 2022, 37, 404-415.	7.9	12
4	A Double-PLLs-Based Impedance Reshaping Method for Extending Stability Range of Grid-Following Inverter Under Weak Grid. IEEE Transactions on Power Electronics, 2022, 37, 4091-4104.	7.9	38
5	Improving the Stability of Standalone MMCs by Shaping the AC Side Impedance Using Insertion Index Compensation. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, 12, 81-89.	3.6	3
6	An Improved Control Scheme for Reducing Circulating Current and Reverse Power of Bidirectional Phase-Shifted Full-Bridge Converter. IEEE Transactions on Power Electronics, 2022, 37, 11620-11635.	7.9	5
7	Flexible Power Regulation and Limitation of Voltage Source Inverters under Unbalanced Grid Faults. CES Transactions on Electrical Machines and Systems, 2022, 6, 153-161.	3.5	6
8	A Novel Power-Angle Control Method of DFIG-DC System Based on Regulating Air Gap Flux Vector. IEEE Transactions on Power Electronics, 2021, 36, 513-521.	7.9	9
9	Direct Power Magnitude Control of DFIG-DC System Without Orientation Control. IEEE Transactions on Industrial Electronics, 2021, 68, 1365-1373.	7.9	10
10	Fractional kVA Rating PWM Converter Doubly Fed Variable Speed Electric Generator Systems: An Overview in 2020. IEEE Access, 2021, 9, 117957-117968.	4.2	14
11	Enhancing Transient Stability of PLL-Synchronized Converters by Introducing Voltage Normalization Control. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2021, 11, 69-78.	3.6	13
12	Impact of Grid Strength and Impedance Characteristics on the Maximum Power Transfer Capability of Grid-Connected Inverters. Applied Sciences (Switzerland), 2021, 11, 4288.	2.5	23
13	Transient Damping Method for Improving the Synchronization Stability of Virtual Synchronous Generators. IEEE Transactions on Power Electronics, 2021, 36, 7820-7831.	7.9	73
14	Beatâ€less algorithm based on dualâ€frequency compensation in railway traction applications. IET Power Electronics, 2021, 14, 1985-1994.	2.1	0
15	An Improved Synchronization Stability Method of Virtual Synchronous Generators Based on Frequency Feedforward on Reactive Power Control Loop. IEEE Transactions on Power Electronics, 2021, 36, 9136-9148.	7.9	54
16	Optimal Controller Design for Transient Stability Enhancement of Grid-Following Converters Under Weak-Grid Conditions. IEEE Transactions on Power Electronics, 2021, 36, 10251-10264.	7.9	21
17	An Optimal Damping Design of Virtual Synchronous Generators for Transient Stability Enhancement. IEEE Transactions on Power Electronics, 2021, 36, 11026-11030.	7.9	31
18	On the Equilibrium Points in Three-Phase PLL Based on the d-axis Voltage Normalization. IEEE Transactions on Power Electronics, 2021, 36, 12146-12150.	7.9	5

#	Article	IF	Citations
19	Characteristics of Parallel Inverters Applying Virtual Synchronous Generator Control. IEEE Transactions on Smart Grid, 2021, 12, 4690-4701.	9.0	25
20	Comparison of Three Small-Signal Stability Analysis Methods for Grid-Following Inverter. , 2021, , .		6
21	Comparison of DC-link Voltage Control Schemes on Grid-side and Machine-side for Type-4 Wind Generation System Under Weak Grid. , 2021, , .		4
22	A Simplified SISO Small-Signal Model for Analyzing Instability Mechanism of Grid-Forming Inverter under Stronger Grid. , 2021, , .		11
23	Impact of Virtual Admittance on Small-Signal Stability of Grid-Forming Inverters. , 2021, , .		11
24	Rotor Current Oriented Control Method of DFIG-DC System Without Stator Side Sensors. IEEE Transactions on Industrial Electronics, 2020, 67, 9958-9962.	7.9	18
25	A Simplified Stator Frequency and Power Control Method of DFIG-DC System Without Stator Voltage and Current Sensors. IEEE Transactions on Power Electronics, 2020, 35, 5562-5566.	7.9	10
26	Damping control of highâ€frequency resonance based on voltage feedforward for voltage source converter under a parallel compensated grid. IET Power Electronics, 2020, 13, 2682-2691.	2.1	2
27	A Novel Stator Frequency Control Method of DFIG-DC System Based on Regulating Air Gap Flux Vector. , 2020, , .		1
28	Eliminating Frequency Coupling of DFIG System Using a Complex Vector PLL. , 2020, , .		4
29	Connection and Control Strategy of PV Converter Integrated into Railway Traction Power Supply System. Energies, 2020, 13, 5989.	3.1	3
30	Voltage Modulated DPC Strategy of DFIG Using Extended Power Theory under Unbalanced Grid Voltage Conditions. Energies, 2020, 13, 6077.	3.1	7
31	Analysis and Reshaping on Impedance Characteristic of DFIG System Based on Symmetrical PLL. IEEE Transactions on Power Electronics, 2020, 35, 11720-11730.	7.9	39
32	Damping Method of High-Frequency Resonance for Stator Current Controlled DFIG System Under Parallel Compensation Grid. IEEE Transactions on Power Electronics, 2020, 35, 10260-10270.	7.9	13
33	Coordinated Derived Current Control of DFIGâ€™s RSC and GSC Without PLL Under Unbalanced Grid Voltage Conditions. IEEE Access, 2020, 8, 64760-64769.	4.2	5
34	A Unified Power Control Method for Standalone and Grid-Connected DFIG-DC System. IEEE Transactions on Power Electronics, 2020, 35, 12663-12667.	7.9	16
35	Variable Stator Frequency Diode Rectifier DFIG for Lower Cost MVDC Interface. , 2020, , .		1
36	An Improved DC Voltage Control Method for Standalone DFIG-DC System Based on Direct Torque Resonant Control. , 2020, , .		3

#	Article	IF	Citations
37	Adaptive Repetitive Control of DFIG-DC System Considering Stator Frequency Variation. IEEE Transactions on Power Electronics, 2019, 34, 3302-3312.	7.9	22
38	Improved Operation of DFIG System under Harmonically Distorted Grid Considering Interharmonics. , 2019, , .		0
39	Improved Direct Resonant Control for Suppressing Torque Ripple and Reducing Harmonic Current Losses of DFIG-DC System. IEEE Transactions on Power Electronics, 2019, 34, 8739-8748.	7.9	17
40	Stator Harmonic Current Suppression for DFIG System Considering Integer Harmonics and Interharmonics. IEEE Transactions on Industrial Electronics, 2019, 66, 7001-7011.	7.9	24
41	An Improved Repetitive Control of DFIG-DC System for Torque Ripple Suppression. IEEE Transactions on Power Electronics, 2018, 33, 7634-7644.	7.9	27
42	Sinusoidal Current Operation of a DFIG-DC System Without Stator Voltage Sensors. IEEE Transactions on Industrial Electronics, 2018, 65, 6250-6258.	7.9	21
43	Stator Harmonic Currents Suppression for DFIG Based on Feed-Forward Regulator Under Distorted Grid Voltage. IEEE Transactions on Power Electronics, 2018, 33, 1211-1224.	7.9	38
44	Modeling and Analysis of Harmonic Currents of GSC Caused by Harmonic Grid Voltage and Dead Time. , 2018, , .		0
45	Harmonic Impedance Modeling of DFIG Considering Dead Time Effect of Rotor Side Converter. , 2018, , .		0
46	Control Scheme of DFIGâ€™s RSC and GSC with Self-synchronization Approach. , 2018, , .		0
47	Direct Stator Current Vector Control Strategy of DFIG Without Phase-Locked Loop During Network Unbalance. IEEE Transactions on Power Electronics, 2017, 32, 284-297.	7.9	43
48	Direct Resonant Control Strategy for Torque Ripple Mitigation of DFIG Connected to DC Link through Diode Rectifier on Stator. IEEE Transactions on Power Electronics, 2017, 32, 6936-6945.	7.9	45