

Weimin Wu

List of Publications by Year in descending order

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3,296
citations

331670

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all docs

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docs citations

78
times ranked

2249
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and Analysis of Harmonic Stability in an AC Power-Electronics-Based Power System. IEEE Transactions on Power Electronics, 2014, 29, 6421-6432.	7.9	731
2	An LLCL Power Filter for Single-Phase Grid-Tied Inverter. IEEE Transactions on Power Electronics, 2012, 27, 782-789.	7.9	428
3	A New Design Method for the Passive Damped LCL and LLCL Filter-Based Single-Phase Grid-Tied Inverter. IEEE Transactions on Industrial Electronics, 2013, 60, 4339-4350.	7.9	385
4	Damping Methods for Resonances Caused by LCL-Filter-Based Current-Controlled Grid-Tied Power Inverters: An Overview. IEEE Transactions on Industrial Electronics, 2017, 64, 7402-7413.	7.9	287
5	A Robust Passive Damping Method for LLCL-Filter-Based Grid-Tied Inverters to Minimize the Effect of Grid Harmonic Voltages. IEEE Transactions on Power Electronics, 2014, 29, 3279-3289.	7.9	201
6	An Efficient and Robust Hybrid Damper for LCL - or $LLCL$ -Based Grid-Tied Inverter With Strong Grid-Side Harmonic Voltage Effect Rejection. IEEE Transactions on Industrial Electronics, 2016, 63, 926-936.	7.9	128
7	Aalborg Inverter - A New Type of α -Buck in Buck, Boost in Boost-Grid-Tied Inverter. IEEE Transactions on Power Electronics, 2015, 30, 4784-4793.	7.9	109
8	A Modified LLCL Filter With the Reduced Conducted EMI Noise. IEEE Transactions on Power Electronics, 2014, 29, 3393-3402.	7.9	78
9	Finite Control Set Model Predictive Control for LCL-Filtered Grid-Tied Inverter With Minimum Sensors. IEEE Transactions on Industrial Electronics, 2020, 67, 9980-9990.	7.9	76
10	Use of Boundary Control With Second-Order Switching Surface to Reduce the System Order for Deadbeat Controller in Grid-Connected Inverter. IEEE Transactions on Power Electronics, 2016, 31, 2638-2653.	7.9	53
11	Active Cancellation of Equivalent Grid Impedance for Improving Stability and Injected Power Quality of Grid-Connected Inverter Under Variable Grid Condition. IEEE Transactions on Power Electronics, 2018, 33, 9387-9398.	7.9	50
12	A Dual-Buck-Boost AC/DC Converter for DC Nanogrid With Three Terminal Outputs. IEEE Transactions on Industrial Electronics, 2017, 64, 295-299.	7.9	46
13	A Modified Multifrequency Passivity-Based Control for Shunt Active Power Filter With Model-Parameter-Adaptive Capability. IEEE Transactions on Industrial Electronics, 2018, 65, 760-769.	7.9	45
14	Step by step design of a high order power filter for three-phase three-wire grid-connected inverter in renewable energy system. , 2013, , .		42
15	Divided DQ Small-Signal Model: A New Perspective for the Stability Analysis of Three-Phase Grid-Tied Inverters. IEEE Transactions on Industrial Electronics, 2019, 66, 6493-6504.	7.9	42
16	Design of PWM-SMC Controller Using Linearized Model for Grid-Connected Inverter With LCL Filter. IEEE Transactions on Power Electronics, 2020, 35, 12773-12786.	7.9	39
17	A Simple Differential Mode EMI Suppressor for the $LLCL$ -Filter-Based Single-Phase Grid-Tied Transformerless Inverter. IEEE Transactions on Industrial Electronics, 2015, 62, 4141-4147.	7.9	38
18	Principle and Robust Impedance-Based Design of Grid-tied Inverter with $LLCL$ -Filter under Wide Variation of Grid-Reactance. IEEE Transactions on Power Electronics, 2019, 34, 4362-4374.	7.9	35

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19	Robust Control Parameters Design of PBC Controller for LCL -Filtered Grid-Tied Inverter. IEEE Transactions on Power Electronics, 2020, 35, 8102-8115.	7.9	35
20	Resonance analysis in parallel voltage-controlled Distributed Generation inverters. , 2013, , .		33
21	Modified Cascaded Boundary-Deadbeat Control for a Virtually-Grounded Three-Phase Grid-Connected Inverter With LCL Filter. IEEE Transactions on Power Electronics, 2017, 32, 8163-8180.	7.9	32
22	Coupled-Inductor-Based Aalborg Inverter With Input DC Energy Regulation. IEEE Transactions on Industrial Electronics, 2018, 65, 3826-3836.	7.9	29
23	Dual-Mode Time-Sharing Cascaded Sinusoidal Inverter. IEEE Transactions on Energy Conversion, 2007, 22, 795-797.	5.2	22
24	Direct Current Tracking Using Boundary Control With Second-Order Switching Surface for Three-Phase Three-Wire Grid-Connected Inverter. IEEE Transactions on Power Electronics, 2017, 32, 5723-5740.	7.9	20
25	A Coupled-Inductor-Based Buck-Boost AC-DC Converter With Balanced DC Output Voltages. IEEE Transactions on Power Electronics, 2019, 34, 151-159.	7.9	20
26	A New Virtual Oscillator Control Without Third-Harmonics Injection For DC/AC Inverter. IEEE Transactions on Power Electronics, 2021, 36, 10879-10888.	7.9	20
27	Modelling of the modified $LLCL$ -filter-based single-phase grid-tied Aalborg inverter. IET Power Electronics, 2017, 10, 151-155.	2.1	19
28	Disturbance Observer-Based Adaptive Current Control With Self-Learning Ability to Improve the Grid-Injected Current for LCL -Filtered Grid-Connected Inverter. IEEE Access, 2019, 7, 105376-105390.	4.2	18
29	Individual Channel Design-Based Precise Analysis and Design for Three-Phase Grid-Tied Inverter With LCL -Filter Under Unbalanced Grid Impedance. IEEE Transactions on Power Electronics, 2020, 35, 5381-5396.	7.9	17
30	An Optimized Parameter Design Method for Passivity-Based Control in a LCL -Filtered Grid-Connected Inverter. IEEE Access, 2020, 8, 189878-189890.	4.2	14
31	Stability Analysis and Active Damping for $LLCL$ -Filter-Based Grid-Connected Inverters. IEEE Journal of Industry Applications, 2015, 4, 187-195.	1.1	13
32	Dermatopontin Regulates Fibrin Formation and Its Biological Activity. Journal of Investigative Dermatology, 2014, 134, 256-263.	0.7	12
33	Finite Control Set Model Predictive Control for an LCL -Filtered Grid-Tied Inverter with Full Status Estimations under Unbalanced Grid Voltage. Energies, 2019, 12, 2691.	3.1	12
34	A novel control method for dual mode time-sharing grid-connected inverter. , 2010, , .		11
35	Finite Control Set Model Predictive Control with Model Parameter Correction for Power Conversion System in Battery Energy Storage Applications. IEEE Transactions on Electrical and Electronic Engineering, 2020, 15, 1109-1120.	1.4	11
36	A Modified Aalborg Inverter Extracting Maximum Power From One PV Array Source. CPSS Transactions on Power Electronics and Applications, 2019, 4, 109-118.	4.4	10

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37	Modified dual buck-boost AC/DC converter with self-balanced DC output voltages. IET Power Electronics, 2019, 12, 1170-1178.	2.1	10
38	Observer-Based Sliding Mode Control to Improve Stability of Three-Phase LCL-Filtered Grid-Connected VSIs. Energies, 2019, 12, 1421.	3.1	10
39	Grid Current Feedback Active Damping Control Based on Disturbance Observer for Battery Energy Storage Power Conversion System with LCL Filter. Energies, 2021, 14, 1482.	3.1	10
40	Identification of fibronectin binding sites in dermatopontin and their biological function. Journal of Dermatological Science, 2014, 76, 51-59.	1.9	9
41	A Novel Dual Buck and Boost Transformer-Less Single-Phase Grid-Tied Inverter. IEEE Transactions on Power Electronics, 2022, 37, 4211-4224.	7.9	9
42	Autoidentification Method of the "Trouble Maker(s)" for Internal Instability in Multiparalleled Inverters System. IEEE Transactions on Industrial Electronics, 2022, 69, 18-28.	7.9	8
43	Finite control set model predictive control integrated with disturbance observer for battery energy storage power conversion system. Journal of Power Electronics, 2021, 21, 342-353.	1.5	7
44	A New Type of Three-Phase Asymmetric-LCL Power Filter for Grid-Tied Voltage Source Inverter With Step-Up Transformer. IEEE Transactions on Industrial Electronics, 2022, 69, 11936-11945.	7.9	7
45	Functional peptide of dermatopontin produces fibrinogen fibrils and modifies its biological activity. Journal of Dermatological Science, 2014, 76, 34-43.	1.9	6
46	Improved Sliding Mode Control Method of Single-Phase LCL Filtered VSI. , 2018, , .		6
47	LLCL-filter based single-phase grid-tied aalborg inverter. , 2014, , .		5
48	Model-Based Discrete Sliding Mode Control with Disturbance Observer for Three-Phase LCL Filtered Grid-Connected Inverters. IEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 1520-1529.	1.4	5
49	Using Kalman Filter to Achieve Online Estimation of Equivalent Grid Impedance and High Bandwidth Control for LCL-Filtered Grid-tied Inverters. , 2020, , .		5
50	A New Kalman-Filter-Based Harmonic Current Suppression Method for the Virtual Oscillator Controlled Grid-Tied Inverter. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, 12, 251-259.	3.6	5
51	Wideband Series Harmonic Voltage Compensator for Enhancing Stability of Microgrids. IEEE Transactions on Power Electronics, 2022, 37, 9687-9702.	7.9	5
52	Voltage Balance Control Based Aalborg Inverter with Single Source in Photovoltaic System. , 2018, , .		4
53	A high control bandwidth design method for aalborg inverter under weak grid condition. , 2017, , .		3
54	Design of Observer-Based Active Damping Using Disturbance Observer for Grid-Connected Inverter with LCL Filter. , 2018, , .		3

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55	A New Buck-Boost AC/DC Converter with Two-Terminal Output Voltage for DC Nano-Grid. <i>Energies</i> , 2019, 12, 3808.	3.1	3
56	Multi-Frequency Single Loop Passivity-Based Control for LC-Filtered Stand-Alone Voltage Source Inverter. <i>Energies</i> , 2019, 12, 4548.	3.1	2
57	Kalman-Filter-Estimation Based Sliding Mode Control of Three-Phase LCL-Filtered Grid-Tied Inverter Using only Grid-Injected Current Sensors. , 2020, , .		2
58	Finite Control Set - Model Predictive Control Based on Deadbeat Control for LCL-Type Grid-connected Inverters. , 2021, , .		2
59	An Improved Three-Level Cascaded Control for LCL-Filtered Grid-Connected Inverter in Complex Grid Impedance Condition. <i>IEEE Access</i> , 2022, 10, 65485-65495.	4.2	2
60	A moving pole-placement compensation design method to increase the bandwidth of RC-damper-based dual "Buck-Boost" AC/DC converter. , 2017, , .		1
61	Finite Control Set Model Predictive Control for LCL-Filter-Based Grid-Tied NPC Inverter. , 2018, , .		1
62	A Modified PBC Controller Using Dynamic Damping Injection for LCL-Filtered Grid-Tied Inverter with Zero Steady State Error. , 2019, , .		1
63	A Novel Non-isolated Micro-inverter with Active Power Decoupling. , 2021, , .		1
64	A Simplified Finite Control Set Model Predictive Control for T-Type Three-Level Power Conversion System Based on LCL Filter. <i>Journal of Control Science and Engineering</i> , 2021, 2021, 1-16.	1.0	1
65	Active Disturbance Rejection Control Based on Extended State Observer for Three-Phase Battery Energy Storage Power Conversion System with LCL Filter. <i>Journal of Electrical Engineering and Technology</i> , 2022, 17, 1169-1182.	2.0	1
66	Synchronous Reference Frame current control of Aalborg-type PV inverters. , 2021, , .		1
67	Series Harmonic Voltage Canceller for Mitigating Effect of Grid Impedance on the Stability of Microgrids. , 2019, , .		0
68	An Enhanced Passivity-Based Control of Grid-Connected Voltage Source Inverter with LCL-filter. , 2021, , .		0
69	Modified Kalman Filtering Method to Reduce the Error of Power Grid Impedance Online Estimation. , 2021, , .		0
70	A New Type of Three-phase Asymmetric LCL Power filter for Grid-Tied Voltage Source Inverter. , 2021, , .		0
71	A Novel Third-Harmonic Elimination Method for VOC-Based Three-Phase DC/AC Inverter. , 2020, , .		0
72	A Novel State-Observer-Based PBC Controller for LCL-Filtered Grid-Tied Inverter with Less Sensors and Zero Steady-State Error. , 2020, , .		0

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73	A Novel Method to Identify the "Trouble Maker" of Internal Instability in Multi-paralleled Inverters System. , 2020, , .		0
74	A New Kalman-Filter-Based Harmonic Current Suppression Method for the Virtual Oscillator Controlled Voltage Source Converters with LCL Filter. , 2021, , .		0
75	Simplified Finite Control Set Model Predictive Control Strategy Based on Historical Data. , 2021, , .		0
76	Finite Control Set Model Predictive Control with Kalman Filter Estimation for LCL-type Grid-Tied Inverter. , 2021, , .		0
77	Identification of "Trouble Maker(s)" Caused by the PLL in Multi-paralleled Inverters Systems. , 2022, , .		0
78	Simplified Finite Set Model Predictive Control for T-type Three-Level Battery Energy Storage Power Conversion System. , 2022, , .		0