

# Weimin Wu

## List of Publications by Year in descending order

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papers

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331670

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docs citations

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2249  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Active Disturbance Rejection Control Based on Extended State Observer for Three-Phase Battery Energy Storage Power Conversion System with LCL Filter. Journal of Electrical Engineering and Technology, 2022, 17, 1169-1182.	2.0	1
5	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
6	Wideband Series Harmonic Voltage Compensator for Enhancing Stability of Microgrids. IEEE Transactions on Power Electronics, 2022, 37, 9687-9702.	7.9	5
7	Identification of "Trouble Maker(s)" Caused by the PLL in Multi-paralleled Inverters Systems. , 2022, , .		0
8	An Improved Three-Level Cascaded Control for LCL-Filtered Grid-Connected Inverter in Complex Grid Impedance Condition. IEEE Access, 2022, 10, 65485-65495.	4.2	2
9	Simplified Finite Set Model Predictive Control for T-type Three-Level Battery Energy Storage Power Conversion System. , 2022, , .		0
10	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
11	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
12	An Enhanced Passivity-Based Control of Grid-Connected Voltage Source Inverter with LCL-filter. , 2021, , .		0
13	Modified Kalman Filtering Method to Reduce the Error of Power Grid Impedance Online Estimation. , 2021, , .		0
14	A Novel Non-isolated Micro-inverter with Active Power Decoupling. , 2021, , .		1
15	A Simplified Finite Control Set Model Predictive Control for T-Type Three-Level Power Conversion System Based on LCL Filter. Journal of Control Science and Engineering, 2021, 2021, 1-16.	1.0	1
16	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
17	A New Type of Three-phase Asymmetric LCL Power filter for Grid-Tied Voltage Source Inverter. , 2021, , .		0
18	A New Kalman-Filter-Based Harmonic Current Suppression Method for the Virtual Oscillator Controlled Voltage Source Converters with LCL Filter. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
19	Simplified Finite Control Set Model Predictive Control Strategy Based on Historical Data. , 2021, , .		0
20	Finite Control Set Model Predictive Control with Kalman Filter Estimation for LCL-type Grid-Tied Inverter. , 2021, , .		0
21	Finite Control Set - Model Predictive Control Based on Deadbeat Control for LCL-Type Grid-connected Inverters. , 2021, , .		2
22	Synchronous Reference Frame current control of Aalborg-type PV inverters. , 2021, , .		1
23	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
24	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
25	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
26	Model-Based Discrete Sliding Mode Control with Disturbance Observer for Three-Phase $LCL$ -Filtered Grid-Connected Inverters. IEEE Transactions on Electrical and Electronic Engineering, 2020, 15, 1520-1529.	1.4	5
27	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
28	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
29	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
30	Using Kalman Filter to Achieve Online Estimation of Equivalent Grid Impedance and High Bandwidth Control for $LCL$ -Filtered Grid-tied Inverters. , 2020, , .		5
31	A Novel Third-Harmonic Elimination Method for VOC-Based Three-Phase DC/AC Inverter. , 2020, , .		0
32	A Novel State-Observer-Based PBC Controller for $LCL$ -Filtered Grid-Tied Inverter with Less Sensors and Zero Steady-State Error. , 2020, , .		0
33	Kalman-Filter-Estimation Based Sliding Mode Control of Three-Phase $LCL$ -Filtered Grid-Tied Inverter Using only Grid-Injected Current Sensors. , 2020, , .		2
34	A Novel Method to Identify the "Trouble Maker" of Internal Instability in Multi-paralleled Inverters System. , 2020, , .		0
35	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
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

#	ARTICLE	IF	CITATIONS
37	Finite Control Set Model Predictive Control for an LCL-Filtered Grid-Tied Inverter with Full Status Estimations under Unbalanced Grid Voltage. <i>Energies</i> , 2019, 12, 2691.	3.1	12
38	Disturbance Observer-Based Adaptive Current Control With Self-Learning Ability to Improve the Grid-Injected Current for LCL-Filtered Grid-Connected Inverter. <i>IEEE Access</i> , 2019, 7, 105376-105390.	4.2	18
39	Modified dual buck-boost AC/DC converter with self-balanced DC output voltages. <i>IET Power Electronics</i> , 2019, 12, 1170-1178.	2.1	10
40	Observer-Based Sliding Mode Control to Improve Stability of Three-Phase LCL-Filtered Grid-Connected VSIs. <i>Energies</i> , 2019, 12, 1421.	3.1	10
41	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
42	A Modified PBC Controller Using Dynamic Damping Injection for LCL-Filtered Grid-Tied Inverter with Zero Steady State Error. , 2019, , .		1
43	Series Harmonic Voltage Canceller for Mitigating Effect of Grid Impedance on the Stability of Microgrids. , 2019, , .		0
44	Multi-Frequency Single Loop Passivity-Based Control for LC-Filtered Stand-Alone Voltage Source Inverter. <i>Energies</i> , 2019, 12, 4548.	3.1	2
45	Divided DQ Small-Signal Model: A New Perspective for the Stability Analysis of Three-Phase Grid-Tied Inverters. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 6493-6504.	7.9	42
46	A Coupled-Inductor-Based Buck-Boost AC-DC Converter With Balanced DC Output Voltages. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 151-159.	7.9	20
47	Active Cancellation of Equivalent Grid Impedance for Improving Stability and Injected Power Quality of Grid-Connected Inverter Under Variable Grid Condition. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 9387-9398.	7.9	50
48	Coupled-Inductor-Based Aalborg Inverter With Input DC Energy Regulation. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 3826-3836.	7.9	29
49	A Modified Multifrequency Passivity-Based Control for Shunt Active Power Filter With Model-Parameter-Adaptive Capability. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 760-769.	7.9	45
50	Improved Sliding Mode Control Method of Single-Phase LCL Filtered VSI. , 2018, , .		6
51	Design of Observer-Based Active Damping Using Disturbance Observer for Grid-Connected Inverter with LCL Filter. , 2018, , .		3
52	Finite Control Set Model Predictive Control for LCL-Filter-Based Grid-Tied NPC Inverter. , 2018, , .		1
53	Voltage Balance Control Based Aalborg Inverter with Single Source in Photovoltaic System. , 2018, , .		4
54	Damping Methods for Resonances Caused by LCL-Filter-Based Current-Controlled Grid-Tied Power Inverters: An Overview. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 7402-7413.	7.9	287

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55	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
56	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
57	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
58	Modelling of the modified LLCL-filter based single-phase grid-tied Aalborg inverter. IET Power Electronics, 2017, 10, 151-155.	2.1	19
59	A high control bandwidth design method for aalborg inverter under weak grid condition. , 2017, , .		3
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	An Efficient and Robust Hybrid Damper for LLCL-Filter-Based Grid-Tied Inverter With Strong Grid-Side Harmonic Voltage Effect Rejection. IEEE Transactions on Industrial Electronics, 2016, 63, 826-836.	7.9	128
62	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
63	Stability Analysis and Active Damping for LLCL-Filter-Based Grid-Connected Inverters. IEEE Journal of Industry Applications, 2015, 4, 187-195.	1.1	13
64	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
65	Aalborg Inverter - A New Type of Buck in Buck, Boost in Boost Grid-Tied Inverter. IEEE Transactions on Power Electronics, 2015, 30, 4784-4793.	7.9	109
66	LLCL-filter based single-phase grid-tied aalborg inverter. , 2014, , .		5
67	Dermatopontin Regulates Fibrin Formation and Its Biological Activity. Journal of Investigative Dermatology, 2014, 134, 256-263.	0.7	12
68	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
69	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
70	Identification of fibronectin binding sites in dermatopontin and their biological function. Journal of Dermatological Science, 2014, 76, 51-59.	1.9	9
71	Functional peptide of dermatopontin produces fibrinogen fibrils and modifies its biological activity. Journal of Dermatological Science, 2014, 76, 34-43.	1.9	6
72	A Modified LLCL Filter With the Reduced Conducted EMI Noise. IEEE Transactions on Power Electronics, 2014, 29, 3393-3402.	7.9	78

#	ARTICLE	IF	CITATIONS
73	Step by step design of a high order power filter for three-phase three-wire grid-connected inverter in renewable energy system. , 2013, , .		42
74	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
75	Resonance analysis in parallel voltage-controlled Distributed Generation inverters. , 2013, , .		33
76	An LLCL Power Filter for Single-Phase Grid-Tied Inverter. IEEE Transactions on Power Electronics, 2012, 27, 782-789.	7.9	428
77	A novel control method for dual mode time-sharing grid-connected inverter. , 2010, , .		11
78	Dual-Mode Time-Sharing Cascaded Sinusoidal Inverter. IEEE Transactions on Energy Conversion, 2007, 22, 795-797.	5.2	22