

Weimin

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83
papers

2,057
citations

19
h-index

44
g-index

111
ext. papers

3,048
ext. citations

4.8
avg, IF

5.37
L-index

#	Paper	IF	Citations
83	Modeling and Analysis of Harmonic Stability in an AC Power-Electronics-Based Power System. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 6421-6432	7.2	452
82	A New Design Method for the Passive Damped LCL and LLCL Filter-Based Single-Phase Grid-Tied Inverter. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 4339-4350	8.9	256
81	An LLCL Power Filter for Single-Phase Grid-Tied Inverter. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 782-789	7.2	255
80	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	8.9	171
79	A Robust Passive Damping Method for LLCL-Filter-Based Grid-Tied Inverters to Minimize the Effect of Grid Harmonic Voltages. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 3279-3289	7.2	107
78	An Efficient and Robust Hybrid Damper for $\$LCL\$$ - or $\$LLCL\$$ -Based Grid-Tied Inverter With Strong Grid-Side Harmonic Voltage Effect Rejection. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 926-938	8.9	79
77	Aalborg Inverter - A New Type of Buck in Buck, Boost in Boost Grid-Tied Inverter. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 4784-4793	7.2	71
76	A Modified LLCL Filter With the Reduced Conducted EMI Noise. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 3393-3402	7.2	53
75	Use of Boundary Control With Second-Order Switching Surface to Reduce the System Order for Deadbeat Controller in Grid-Connected Inverter. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 2638-2653	7.2	36
74	A Transformer-Less Unified Power Quality Conditioner with Fast Dynamic Control. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 3926-3937	7.2	33
73	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	8.9	32
72	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	8.9	29
71	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	7.2	27
70	Finite Control Set Model Predictive Control for LCL-Filtered Grid-Tied Inverter With Minimum Sensors. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 9980-9990	8.9	27
69	New Passive Filter Design Method for Overvoltage Suppression and Bearing Currents Mitigation in a Long Cable Based PWM Inverter-Fed Motor Drive System. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 7882-7893	7.2	25
68	Step by step design of a high order power filter for three-phase three-wire grid-connected inverter in renewable energy system 2013 ,		23
67	Principle and Robust Impedance-Based Design of Grid-tied Inverter with LLCL-Filter under Wide Variation of Grid-Reactance. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 4362-4374	7.2	22

66	Resonance analysis in parallel voltage-controlled Distributed Generation inverters 2013 ,		21
65	Modified Cascaded Boundary-Deadbeat Control for a Virtually-Grounded Three-Phase Grid-Connected Inverter With LCL Filter. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 8163-8180	7.2	19
64	Coupled-Inductor-Based Aalborg Inverter With Input DC Energy Regulation. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 3826-3836	8.9	17
63	Modelling of the modified-LLCL-filter-based single-phase grid-tied Aalborg inverter. <i>IET Power Electronics</i> , 2017 , 10, 151-155	2.2	16
62	Direct Current Tracking Using Boundary Control With Second-Order Switching Surface for Three-Phase Three-Wire Grid-Connected Inverter. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 5723-5740	7.2	14
61	Electromagnetic Lead Screw for Potential Wave Energy Application. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	14
60	Permanent Magnet Flux Online Estimation Based on Zero-Voltage Vector Injection Method. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 6506-6509	7.2	13
59	Variant Enhanced Dynamic Frame Slotted ALOHA Algorithm for Fast Object Identification in RFID System 2007 ,		13
58	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	3.5	11
57	An Improved Anisotropic Vector Preisach Hysteresis Model Taking Account of Rotating Magnetic Fields. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-4	2	11
56	Stability analysis and active damping for LLCL-filter based grid-connected inverters 2014 ,		11
55	A Coupled-Inductor-Based BuckBoost ACDC Converter With Balanced DC Output Voltages. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 151-159	7.2	11
54	Design of PWM-SMC Controller Using Linearized Model for Grid-Connected Inverter With LCL Filter. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 12773-12786	7.2	10
53	Individual Channel Design-Based Precise Analysis and Design for Three-Phase Grid-Tied Inverter With LCL-Filter Under Unbalanced Grid Impedance. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 5381-5396	7.2	10
52	New Helical-Shape Magnetic Pole Design for Magnetic Lead Screw Enabling Structure Simplification. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	9
51	Stability Analysis and Active Damping for LLCL-Filter-Based Grid-Connected Inverters. <i>IEEJ Journal of Industry Applications</i> , 2015 , 4, 187-195	0.7	8
50	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	7
49	Modeling and analysis of harmonic resonance in a power electronics based AC power system 2013 ,		7

48	A novel control method for dual mode time-sharing grid-connected inverter 2010 ,		7
47	Robust Control Parameters Design of PBC Controller for LCL-Filtered Grid-Tied Inverter. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 8102-8115	7.2	7
46	A New Virtual Oscillator Control Without Third-Harmonics Injection For DC/AC Inverter. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 10879-10888	7.2	7
45	Performance analysis of new type grid-tied inverter-Aalborg Inverter 2014 ,		6
44	Extensible Z-Source Inverter Architecture: Modular Construction and Analysis. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1742-1763	7.2	6
43	Observer-Based Sliding Mode Control to Improve Stability of Three-Phase LCL-Filtered Grid-Connected VSIs. <i>Energies</i> , 2019 , 12, 1421	3.1	5
42	High Torque Density Transverse Flux Machine Without the Need to Use SMC Material for 3-D Flux Paths. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	5
41	Finite Control Set Model Predictive Control with Model Parameter Correction for Power Conversion System in Battery Energy Storage Applications. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2020 , 15, 1109-1120	1	5
40	A Modified Aalborg Inverter Extracting Maximum Power From One PV Array Source. <i>CPSS Transactions on Power Electronics and Applications</i> , 2019 , 4, 109-118	3.5	5
39	A hybrid damping method for LLCL-filter based grid-tied inverter with a digital filter and an RC parallel passive damper 2013 ,		5
38	Generalized Cockcroft-Walton Multiplier Voltage Z-Source Inverters. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 7175-7190	7.2	5
37	An Optimized Parameter Design Method for Passivity-Based Control in a LCL-Filtered Grid-Connected Inverter. <i>IEEE Access</i> , 2020 , 8, 189878-189890	3.5	5
36	Modified dual buckBoost AC/DC converter with self-balanced DC output voltages. <i>IET Power Electronics</i> , 2019 , 12, 1170-1178	2.2	4
35	Efficiency analysis on a two-level three-phase quasi-soft-switching inverter 2013 ,		4
34	A novel three-phase Quasi-soft-Switching DC/AC inverter 2010 ,		4
33	A Flower Pollination Method Based Global Maximum Power Point Tracking Strategy for Point-Absorbing Type Wave Energy Converters. <i>Energies</i> , 2019 , 12, 1343	3.1	3
32	A modified two-level three-phase quasi-soft-switching inverter 2014 ,		3
31	Single-stage MPPT control realization for Aalborg inverter in photovoltaic system 2017 ,		3

30	LLCL-filter based single-phase grid-tied aalborg inverter 2014 ,		3
29	Design and experiment of a magnetic lead screw for the point-absorbing wave energy conversion system. <i>IET Electric Power Applications</i> , 2020 , 14, 2146-2153	1.8	3
28	Grid Current Feedback Active Damping Control Based on Disturbance Observer for Battery Energy Storage Power Conversion System with LCL Filter. <i>Energies</i> , 2021 , 14, 1482	3.1	3
27	MOSFET-Switch-Based Transformerless Single-Phase Grid-tied Inverter for PV Systems. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	3
26	Finite control set model predictive control integrated with disturbance observer for battery energy storage power conversion system. <i>Journal of Power Electronics</i> , 2021 , 21, 342-353	0.9	3
25	Improved Sliding Mode Control Method of Single-Phase LCL Filtered VSI 2018 ,		3
24	A high control bandwidth design method for aalborg inverter under weak grid condition 2017 ,		2
23	A Novel Dual Buck and Boost Transformer-Less Single-Phase Grid-Tied Inverter. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 4211-4224	7.2	2
22	Multi-Frequency Single Loop Passivity-Based Control for LC-Filtered Stand-Alone Voltage Source Inverter. <i>Energies</i> , 2019 , 12, 4548	3.1	2
21	Finite Control Set Model Predictive Control for LCL-Filter-Based Grid-Tied Inverter with Computational Delay Compensation 2018 ,		2
20	Design of Observer-Based Active Damping Using Disturbance Observer for Grid-Connected Inverter with LCL Filter 2018 ,		2
19	Extremum-seeking Control of Wave Energy Converters using Two-objective Flower Pollination Algorithm 2018 ,		2
18	Autoidentification Method of the Trouble Maker(s) For Internal Instability in Multiparalleled Inverters System. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	2
17	Optimized Series Dynamic Braking Resistor for LVRT of Doubly-Fed Induction Generator With Uncertain Fault Scenarios. <i>IEEE Access</i> , 2022 , 10, 22533-22546	3.5	2
16	Modelling and control design of a dual Buck-Boost AC/DC converter used in the DC Nano-grid 2016 ,		1
15	Aalborg inverter [A new type of Buck in Buck, Boost in Boost]grid-tied inverter 2013 ,		1
14	A moving pole-placement compensation design method to increase the bandwidth of RC-damper-based dual Buck-Boost AC/DC converter 2017 ,		1
13	A New Kalman-Filter-Based Harmonic Current Suppression Method for the Virtual Oscillator Controlled Grid-tied Inverter. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2022 , 1-1	5.2	1

12	Model-Based Discrete Sliding Mode Control with Disturbance Observer for Three-Phase LCL-Filtered Grid-Connected Inverters. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2020 , 15, 1520-1529	1	1
11	An Improved Anisotropic Vector Preisach Model for Nonoriented Electrical Steel Sheet Based on Iron Loss Separation Theory. <i>Mathematical Problems in Engineering</i> , 2020 , 2020, 1-8	1.1	1
10	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	1.2	1
9	A New Buck-Boost AC/DC Converter with Two-Terminal Output Voltage for DC Nano-Grid. <i>Energies</i> , 2019 , 12, 3808	3.1	1
8	Voltage Balance Control Based Aalborg Inverter with Single Source in Photovoltaic System 2018 ,		1
7	Wideband Series Harmonic Voltage Compensator for Enhancing Stability of Microgrids. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	1
6	A New Type of Three-phase Asymmetric-LCL Power filter for Grid-Tied Voltage Source Inverter with Step-up Transformer. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	0
5	Design Optimization of a Reluctance Lead Screw for Wave Energy Conversion. <i>Energies</i> , 2020 , 13, 5388	3.1	
4	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	1.4	
3	A Preisach-Based Magnetostriction Model for Highly Grain-Oriented Electrical Steel Under Rotating Magnetic Field. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	
2	Stabilization Design of Three-Phase LCL-Filtered Grid-Connected Inverter Using IDA-PBC Controller. <i>International Transactions on Electrical Energy Systems</i> , 2022 , 2022, 1-14	2.2	
1	A New Stability Enhancement Method Using KF Estimation for the PWM-SMC-Based Grid-Tied Inverter under Weak Grid Condition. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2022 , 1-1	5.6	