

Weimin

List of Publications by Year in Descending Order

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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 | 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 | |
| 82 | 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 |
| 81 | 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 |
| 80 | 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 |
| 79 | Wideband Series Harmonic Voltage Compensator for Enhancing Stability of Microgrids. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1 | 7.2 | 1 |
| 78 | 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 | |
| 77 | 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 | |
| 76 | 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 | |
| 75 | 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 |
| 74 | 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 |
| 73 | 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 |
| 72 | Extensible Z-Source Inverter Architecture: Modular Construction and Analysis. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1742-1763 | 7.2 | 6 |
| 71 | 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 |
| 70 | 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 |
| 69 | 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 |
| 68 | 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 |
| 67 | Design Optimization of a Reluctance Lead Screw for Wave Energy Conversion. <i>Energies</i> , 2020 , 13, 5388 | 3.1 | |

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| 66 | 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 |
| 65 | 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 |
| 64 | 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 |
| 63 | 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 |
| 62 | 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 |
| 61 | Generalized Cockcroft-Walton Multiplier Voltage Z-Source Inverters. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 7175-7190 | 7.2 | 5 |
| 60 | 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 |
| 59 | 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 |
| 58 | 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 |
| 57 | 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, 5387-5396 ¹⁰ | 7.2 | 5 |
| 56 | 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 |
| 55 | Modified dual buckBoost AC/DC converter with self-balanced DC output voltages. <i>IET Power Electronics</i> , 2019 , 12, 1170-1178 | 2.2 | 4 |
| 54 | 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 |
| 53 | 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 |
| 52 | 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 |
| 51 | 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 |
| 50 | 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 |
| 49 | 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 |

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| 48 | 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 |
| 47 | Multi-Frequency Single Loop Passivity-Based Control for LC-Filtered Stand-Alone Voltage Source Inverter. <i>Energies</i> , 2019 , 12, 4548 | 3.1 | 2 |
| 46 | 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 |
| 45 | 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 |
| 44 | 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 |
| 43 | Coupled-Inductor-Based Aalborg Inverter With Input DC Energy Regulation. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 3826-3836 | 8.9 | 17 |
| 42 | 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 |
| 41 | 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 |
| 40 | Improved Sliding Mode Control Method of Single-Phase LCL Filtered VSI 2018 , | | 3 |
| 39 | Finite Control Set Model Predictive Control for LCL-Filter-Based Grid-Tied Inverter with Computational Delay Compensation 2018 , | | 2 |
| 38 | Design of Observer-Based Active Damping Using Disturbance Observer for Grid-Connected Inverter with LCL Filter 2018 , | | 2 |
| 37 | Extremum-seeking Control of Wave Energy Converters using Two-objective Flower Pollination Algorithm 2018 , | | 2 |
| 36 | Voltage Balance Control Based Aalborg Inverter with Single Source in Photovoltaic System 2018 , | | 1 |
| 35 | 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 |
| 34 | 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 |
| 33 | 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 |
| 32 | 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 |
| 31 | 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 |

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|----|---|-----|-----|
| 30 | Single-stage MPPT control realization for Aalborg inverter in photovoltaic system 2017 , | | 3 |
| 29 | A high control bandwidth design method for aalborg inverter under weak grid condition 2017 , | | 2 |
| 28 | A moving pole-placement compensation design method to increase the bandwidth of RC-damper-based dual Buck-Boost AC/DC converter 2017 , | | 1 |
| 27 | 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 |
| 26 | Modelling and control design of a dual Buck-Boost AC/DC converter used in the DC Nano-grid 2016 , | | 1 |
| 25 | An Efficient and Robust Hybrid Damper for LLCL- or LCL-Based Grid-Tied Inverter With Strong Grid-Side Harmonic Voltage Effect Rejection. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 926-936 | 8.9 | 79 |
| 24 | 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 |
| 23 | 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 |
| 22 | 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 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | A modified two-level three-phase quasi-soft-switching inverter 2014 , | | 3 |
| 17 | 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 |
| 16 | A Modified LLCL Filter With the Reduced Conducted EMI Noise. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 3393-3402 | 7.2 | 53 |
| 15 | Performance analysis of new type grid-tied inverter-Aalborg Inverter 2014 , | | 6 |
| 14 | Electromagnetic Lead Screw for Potential Wave Energy Application. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4 | 2 | 14 |
| 13 | Stability analysis and active damping for LLCL-filter based grid-connected inverters 2014 , | | 11 |

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| 12 | LLCL-filter based single-phase grid-tied aalborg inverter 2014 , | | 3 |
| 11 | Aalborg inverter [A new type of Buck in Buck, Boost in Boost]grid-tied inverter 2013 , | | 1 |
| 10 | Efficiency analysis on a two-level three-phase quasi-soft-switching inverter 2013 , | | 4 |
| 9 | Step by step design of a high order power filter for three-phase three-wire grid-connected inverter in renewable energy system 2013 , | | 23 |
| 8 | A hybrid damping method for LLCL-filter based grid-tied inverter with a digital filter and an RC parallel passive damper 2013 , | | 5 |
| 7 | 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 |
| 6 | Modeling and analysis of harmonic resonance in a power electronics based AC power system 2013 , | | 7 |
| 5 | Resonance analysis in parallel voltage-controlled Distributed Generation inverters 2013 , | | 21 |
| 4 | An LLCL Power Filter for Single-Phase Grid-Tied Inverter. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 782-789 | 7.2 | 255 |
| 3 | A novel control method for dual mode time-sharing grid-connected inverter 2010 , | | 7 |
| 2 | A novel three-phase Quasi-soft-Switching DC/AC inverter 2010 , | | 4 |
| 1 | Variant Enhanced Dynamic Frame Slotted ALOHA Algorithm for Fast Object Identification in RFID System 2007 , | | 13 |