

Xiaoming Zha

List of Publications by Year in descending order

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145
papers

1,497
citations

393982

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docs citations

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times ranked

1197
citing authors

| # | ARTICLE | IF | CITATIONS |
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| 1 | A Novel Fault Ride-Through Topology With High Efficiency and Fast Fault Clearing Capability for MVdc PV System. IEEE Transactions on Industrial Electronics, 2023, 70, 1501-1511. | 5.2 | 4 |
| 2 | A Peak Current Reducing Method for Input-Independent and Output-Series Modular Converters With LC-Branch-Based Power Balancing Unit. IEEE Transactions on Industrial Electronics, 2023, 70, 418-429. | 5.2 | 4 |
| 3 | A Novel Voltage Balance Topology With High Efficiency and Low Current Stress for MVdc Interface of Distributed PV. IEEE Transactions on Industrial Electronics, 2023, 70, 3867-3877. | 5.2 | 4 |
| 4 | A Current-Sharing Method for Interleaved High-Frequency LLC Converter With Partial Energy Phase Shift Regulation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 760-772. | 3.7 | 12 |
| 5 | A Synchronous Auxiliary Resonant Commutated Pole Soft-Switching Inverter With Improved Load Adaptability. IEEE Transactions on Power Electronics, 2022, 37, 3073-3084. | 5.4 | 11 |
| 6 | Hamilton-Based Stability Criterion and Attraction Region Estimation for Grid-Tied Inverters Under Large-Signal Disturbances. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 413-423. | 3.7 | 21 |
| 7 | Impact Analysis of Fast Dynamics on Stability of Grid-Tied Inverter Based on Oscillator Model and Damping Torque Analysis. IEEE Transactions on Power Systems, 2022, 37, 1881-1892. | 4.6 | 2 |
| 8 | A Novel Low-Loss Bidirectional T-Source Circuit Breaker With Physical Isolation for Low-Voltage DC Distribution Network. IEEE Transactions on Industrial Electronics, 2022, 69, 6892-6902. | 5.2 | 7 |
| 9 | Decoupling Capacitor Minimization of an MMC-Based Photovoltaic System With Three-Winding Power Channel. IEEE Transactions on Power Electronics, 2022, 37, 1012-1026. | 5.4 | 5 |
| 10 | CDSC-Based Adaptive Impedance Measurement Method for Grid-Tied Inverter System Under Adverse Grid Voltage Conditions. IEEE Transactions on Industrial Electronics, 2022, 69, 11210-11220. | 5.2 | 6 |
| 11 | Robust Stability Assessment of Single-Phase Inverter With Multiparameter Distributions. IEEE Transactions on Power Electronics, 2022, 37, 6062-6073. | 5.4 | 6 |
| 12 | A Weighted Efficiency Enhancement Method for Coupled Inductor Filter-Based H-Bridge Inverters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4456-4468. | 3.7 | 1 |
| 13 | Optimization of DC-Link Capacitance Based on the Power Loss Modeling of IGBT for Inverters Under Swing Bus Operation. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2022, 12, 73-80. | 2.7 | 0 |
| 14 | Frequency-Dependent Network Analysis and Stability Enhanced Design for Voltage-Source Converters Under Weak Grid Conditions. IEEE Transactions on Power Delivery, 2022, 37, 4593-4602. | 2.9 | 4 |
| 15 | An Improved Negative-Sequence Current Compensation Method for Star-Connected CHB STATCOM. IEEE Transactions on Power Delivery, 2022, 37, 4786-4795. | 2.9 | 8 |
| 16 | An Improved Equal Area Criterion for Transient Stability Analysis of Converter-Based Microgrid Considering Nonlinear Damping Effect. IEEE Transactions on Power Electronics, 2022, 37, 11272-11284. | 5.4 | 26 |
| 17 | Optimal Virtual Inertia Design for VSG-based Motor Starting Systems to Improve Motor Loading Capacity. IEEE Transactions on Energy Conversion, 2022, , 1-1. | 3.7 | 3 |
| 18 | Cascading Synchronization Instability in Multi-VSC Grid-Connected System. IEEE Transactions on Power Electronics, 2022, 37, 7572-7576. | 5.4 | 17 |

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| 19 | An Online Monitoring Method for Single Aluminum Electrolytic Capacitor in the DC Bank of Single-Phase Inverter Based on the Rogowski Coil. IEEE Transactions on Power Electronics, 2022, 37, 12647-12658. | 5.4 | 4 |
| 20 | A New Efficient Bidirectional T-Source Circuit Breaker for Flexible DC Distribution Networks. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 7056-7065. | 3.7 | 11 |
| 21 | An Integral Fault Location Algorithm Based on a Modified T-Source Circuit Breaker for Flexible DC Distribution Networks. IEEE Transactions on Power Delivery, 2021, 36, 2861-2871. | 2.9 | 4 |
| 22 | An Improved Impedance Measurement Method for Grid-Connected Inverter Systems Considering the Background Harmonics and Frequency Deviation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4236-4247. | 3.7 | 16 |
| 23 | Emulation of Multi-Inverter Integrated Weak Grid via Interaction-Preserved Aggregation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4153-4164. | 3.7 | 7 |
| 24 | Nonlinear and Transient Stability Analysis of Phase-Locked Loops in Grid-Connected Converters. IEEE Transactions on Power Electronics, 2021, 36, 1018-1029. | 5.4 | 85 |
| 25 | Short-Circuit Fault-Tolerant Topology for Multiport Cascaded DC/DC Converter in Photovoltaic Power Generation System. IEEE Transactions on Power Electronics, 2021, 36, 549-561. | 5.4 | 16 |
| 26 | Speed-Sensorless and Motor Parameters-Free Starting Method for Large-Capacity Synchronous Machines Based on Virtual Synchronous Generator Technology. IEEE Transactions on Industrial Electronics, 2021, 68, 6607-6618. | 5.2 | 6 |
| 27 | Bidirectional Buck-Boost and Series LC-Based Power Balancing Units for Photovoltaic DC Collection System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6726-6738. | 3.7 | 6 |
| 28 | A Multi-port DC Solid-state Transformer for MVDC Integration Interface of Multiple Distributed Energy Sources and DC Loads in Distribution Network. IEEE Transactions on Power Electronics, 2021, , 1-1. | 5.4 | 11 |
| 29 | Clustering-Based Modeling and Interaction Analysis of Multiple Differently Parameterized Grid-Side Inverters in PMSC Wind Turbines. IEEE Transactions on Energy Conversion, 2021, 36, 3031-3043. | 3.7 | 6 |
| 30 | Resilient Power Converter: A Grid-Connected Converter With Disturbance/Attack Resiliency via Multi-Timescale Current Limiting Scheme. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2021, 11, 59-68. | 2.7 | 6 |
| 31 | A Novel Node Flexibility Evaluation Method of Active Distribution Network for SNOPI Integration. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2021, 11, 188-198. | 2.7 | 17 |
| 32 | A Digital Adaptive Voltage Positioning Technique for 48-1V ISOP-LLC Converter based on Bang-Bang Charge Control. , 2021, , . | | 2 |
| 33 | A Novel MMC Topology for Decoupling Capacitance Minimization with an Integrated Three-Port Coupling Transformer. , 2021, , . | | 0 |
| 34 | A Leakage Current Eliminated and Power Oscillation Suppressed Single-Phase Single-Stage Nonisolated Photovoltaic Grid-Tied Inverter and Its Improved Control Strategy. IEEE Transactions on Power Electronics, 2021, 36, 6738-6749. | 5.4 | 17 |
| 35 | A Multiport Modular DC-DC Converter With Low-Loss Series LC Power Balancing Unit for MVDC Interface of Distributed Photovoltaics. IEEE Transactions on Power Electronics, 2021, 36, 7736-7749. | 5.4 | 23 |
| 36 | Large-Signal Stability of Grid-Forming and Grid-Following Controls in Voltage Source Converter: A Comparative Study. IEEE Transactions on Power Electronics, 2021, 36, 7832-7840. | 5.4 | 117 |

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| 37 | Energy-based large-signal stability analysis of DC microgrid considering dynamic interactions between multiple converters. , 2021, , . | | 1 |
| 38 | Overview of recent progress in condition monitoring for insulated gate bipolar transistor modules: Detection, estimation, and prediction. High Voltage, 2021, 6, 967-977. | 2.7 | 5 |
| 39 | Stability and Multiconstraint Operating Region of Grid-Connected Modular Multilevel Converter Under Grid Phase Disturbance. IEEE Transactions on Power Electronics, 2021, 36, 12551-12564. | 5.4 | 7 |
| 40 | Hybrid Control Strategy for an Integrated DABâ€“LLCâ€“DCX DCâ€“DC Converter to Achieve Full-Power-Range Zero-Voltage Switching. IEEE Transactions on Power Electronics, 2021, 36, 14383-14397. | 5.4 | 14 |
| 41 | Topology Simplification and Parameter Design of Z/TÎ”-Source Circuit Breakers. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 7066-7077. | 3.7 | 3 |
| 42 | Transient Modeling of Phase-Locked Loop and its Applications in a Multi-VSCs Grid-connected System. , 2021, , . | | 3 |
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| 44 | Transient Stability Analysis for Grid-tied Virtual Synchronous Generator Based on T-S Fuzzy Modeling and LMI Approach. , 2021, , . | | 0 |
| 45 | Research on Improvement Mechanism of Transient Stability of Droop Converter Based on SVG Compensation. , 2021, , . | | 0 |
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| 47 | An Improved Control Strategy for A Single-Phase Non-Isolated Photovoltaic Grid-Tied Inverter. , 2020, , . | | 0 |
| 48 | IGBT Remaining Useful Life Prediction Based on Particle Filter With Fusing Precursor. IEEE Access, 2020, 8, 154281-154289. | 2.6 | 13 |
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| 51 | Nonlinear Analysis of PLL Damping Characteristics in Weak-Grid-Tied Inverters. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2752-2756. | 2.2 | 31 |
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| 56 | Multiple Time-scales Node Flexibility Evaluation and Partitioning Method of the Distribution Network Oriented to SNOP Integration. , 2020, , . | | 1 |
| 57 | Voltage Balancing Scheme Based on Active Voltage Cross Control for Series-Connected IGBTs. , 2020, , . | | 0 |
| 58 | Lifetime Estimation for Aluminum Electrolytic Capacitors in Active Power Filter. , 2020, , . | | 0 |
| 59 | Short-Circuit Current Estimation of Modular Multilevel Converter Using Discrete-Time Modeling. IEEE Transactions on Power Electronics, 2019, 34, 40-45. | 5.4 | 17 |
| 60 | An Integrated Dual Voltage Loop Control for Capacitance Reduction in CHB-Based Regenerative Motor Drive Systems. IEEE Transactions on Industrial Electronics, 2019, 66, 3369-3379. | 5.2 | 19 |
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| 63 | A Voltage-Balancer-Based Cascaded DCâ€“DC Converter With a Novel Power Feedforward Control for the Medium-Voltage DC Grid Interface of Photovoltaic Systems. IEEE Access, 2019, 7, 178094-178107. | 2.6 | 20 |
| 64 | Reliability evaluation of MMC system considering working conditions. Journal of Engineering, 2019, 2019, 1877-1881. | 0.6 | 5 |
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| 69 | A Multiport Circuit Breaker-Based Multiterminal DC System Fault Protection. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 118-128. | 3.7 | 40 |
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| 79 | A Partial Energy Input Based Three-Port Cascade Multi-level Hexverter and Its Loop Current Control. , 2018, , . | | 2 |
| 80 | Large Signal Modeling and Stability Analysis of Photovoltaic-Battery Hybrid Power System. , 2018, , . | | 2 |
| 81 | Modular Multilevel Converter DC Bipolar Short-Circuit Current Calculation on Discrete-Time Model. , 2018, , . | | 3 |
| 82 | Transient Stability Analysis of Grid-Connected VSIs via PLL Interaction. , 2018, , . | | 10 |
| 83 | Influence of DC Link Capacitance on Power Efficiency of Single-Phase Inverter. , 2018, , . | | 1 |
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| 85 | Bifurcation-Based Stability Analysis of Photovoltaic-Battery Hybrid Power System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 1055-1067. | 3.7 | 40 |
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| 87 | A segmented power distribution control system based on hybrid regenerative cascaded multilevel converter. , 2017, , . | | 1 |
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| 89 | Bifurcation and Large-Signal Stability Analysis of Three-Phase Voltage Source Converter Under Grid Voltage Dips. IEEE Transactions on Power Electronics, 2017, 32, 8868-8879. | 5.4 | 108 |
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| 92 | Performance analysis of RCD and MOV snubber circuits in low-voltage DC microgrid system. , 2017, , . | | 11 |
| 93 | Individual DC voltage balancing method at zero current mode for cascaded H-bridge based static synchronous compensator. , 2017, , . | | 2 |
| 94 | Reliability-Oriented Optimization of the LC Filter in a Buck DC-DC Converter. IEEE Transactions on Power Electronics, 2017, 32, 6323-6337. | 5.4 | 35 |
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| 107 | Gradient-reference-current control for tri-state buck converter to improve dynamic response over wide load range. , 2016, , . | | 2 |
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| 110 | A composite compensation method of a grid-connected AC/DC converter to improve robustness under weak grid conditions. , 2015, , . | | 5 |
| 111 | Asymmetrical phase-shifting carrier pulse-width modulation for harmonics suppression in cascaded multilevel converter under unbalanced DC-link voltages. , 2015, , . | | 10 |
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| 119 | Cascaded multilevel converter for medium-voltage motor drive capable of regenerating with part of cells. IET Power Electronics, 2014, 7, 1313-1320. | 1.5 | 30 |
| 120 | High frequency harmonic analysis and suppression of converters paralleled by multiwinding transformer. , 2014, , . | | 1 |
| 121 | Coordinate control system for photovoltaic-based DC microgrid. , 2013, , . | | 2 |
| 122 | Current control for single-phase grid-connected inverters by splitting the elements of LLCL filter. , 2013, , . | | 0 |
| 123 | Discrete-time one cycle control of VIENNA rectifiers considering the dc-link neutral-point voltage balance. , 2013, , . | | 3 |
| 124 | A regenerative cascaded multilevel converter with reduced active front ends. , 2013, , . | | 4 |
| 125 | Reliability Analysis of Smart Distribution Grid Communication System Based on EPON. , 2012, , . | | 4 |
| 126 | Notice of Retraction Research on wave energy generation instructive device. , 2011, , . | | 0 |

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| 130 | Small Signal Stability Fuzzy Analysis of Microgrid Based on Credibility Theory. , 2010, , . | | 2 |
| 131 | Parallel operation of active power filters based on Boost Converter Control. , 2010, , . | | 0 |
| 132 | The study on the application of repetitive control in STATCOM. , 2010, , . | | 2 |
| 133 | Realization and improvement of repetitive control in rotating frame for active power filter system. , 2010, , . | | 3 |
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| 136 | Aggregating wind farm with DFIG in power system online analysis. , 2009, , . | | 11 |
| 137 | Probabilistic analysis of small signal stability of microgrid using point estimate method. , 2009, , . | | 6 |
| 138 | Design and research on parameter of LCL filter in three-phase grid-connected inverter. , 2009, , . | | 34 |
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| 140 | Time Domain Aggregation of Generating Units for Shipboard Power Systems. , 2009, , . | | 0 |
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| 142 | A novel Active Power Filter topology based on coordinate transformation. , 2009, , . | | 4 |
| 143 | Research on control strategy combining pole-assignment and pr control in three-phase grid-connected inverter. , 2009, , . | | 8 |
| 144 | The iterative learning control strategy for hybrid active filter to dampen harmonic resonance in industrial power system. , 0, , . | | 5 |

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| 145 | An integrated learning control method for PWM-VSI based hybrid filter to dampen harmonic resonance in industrial power system. , 0, , . | | 0 |