

Kai Sun

List of Publications by Year in descending order

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168
papers

6,550
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168
docs citations

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4596
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | An Improved Droop Control Method for DC Microgrids Based on Low Bandwidth Communication With DC Bus Voltage Restoration and Enhanced Current Sharing Accuracy. IEEE Transactions on Power Electronics, 2014, 29, 1800-1812. | 7.9 | 837 |
| 2 | State-of-Charge Balance Using Adaptive Droop Control for Distributed Energy Storage Systems in DC Microgrid Applications. IEEE Transactions on Industrial Electronics, 2014, 61, 2804-2815. | 7.9 | 603 |
| 3 | A Distributed Control Strategy Based on DC Bus Signaling for Modular Photovoltaic Generation Systems With Battery Energy Storage. IEEE Transactions on Power Electronics, 2011, 26, 3032-3045. | 7.9 | 559 |
| 4 | A Family of Neutral Point Clamped Full-Bridge Topologies for Transformerless Photovoltaic Grid-Tied Inverters. IEEE Transactions on Power Electronics, 2013, 28, 730-739. | 7.9 | 343 |
| 5 | H6 Transformerless Full-Bridge PV Grid-Tied Inverters. IEEE Transactions on Power Electronics, 2014, 29, 1229-1238. | 7.9 | 339 |
| 6 | Hierarchical Control of Parallel AC-DC Converter Interfaces for Hybrid Microgrids. IEEE Transactions on Smart Grid, 2014, 5, 683-692. | 9.0 | 327 |
| 7 | Double-Quadrant State-of-Charge-Based Droop Control Method for Distributed Energy Storage Systems in Autonomous DC Microgrids. IEEE Transactions on Smart Grid, 2015, 6, 147-157. | 9.0 | 282 |
| 8 | Online Identification of Permanent Magnet Flux Based on Extended Kalman Filter for IPMSM Drive With Position Sensorless Control. IEEE Transactions on Industrial Electronics, 2012, 59, 4169-4178. | 7.9 | 249 |
| 9 | A Modular Grid-Connected Photovoltaic Generation System Based on DC Bus. IEEE Transactions on Power Electronics, 2011, 26, 523-531. | 7.9 | 228 |
| 10 | Topology Derivation of Nonisolated Three-Port DC-DC Converters From DIC and DOC. IEEE Transactions on Power Electronics, 2013, 28, 3297-3307. | 7.9 | 226 |
| 11 | Full-Bridge Three-Port Converters With Wide Input Voltage Range for Renewable Power Systems. IEEE Transactions on Power Electronics, 2012, 27, 3965-3974. | 7.9 | 125 |
| 12 | Adaptive protection combined with machine learning for microgrids. IET Generation, Transmission and Distribution, 2019, 13, 770-779. | 2.5 | 115 |
| 13 | Improved Modeling of Medium Voltage SiC MOSFET Within Wide Temperature Range. IEEE Transactions on Power Electronics, 2014, 29, 2229-2237. | 7.9 | 100 |
| 14 | Parallel Operation of Bidirectional Interfacing Converters in a Hybrid AC/DC Microgrid Under Unbalanced Grid Voltage Conditions. IEEE Transactions on Power Electronics, 2017, 32, 1872-1884. | 7.9 | 84 |
| 15 | Low-Voltage Ride-Through Operation of Power Converters in Grid-Interactive Microgrids by Using Negative-Sequence Droop Control. IEEE Transactions on Power Electronics, 2017, 32, 3128-3142. | 7.9 | 83 |
| 16 | An Overmodulation Method for PWM-Inverter-Fed IPMSM Drive With Single Current Sensor. IEEE Transactions on Industrial Electronics, 2010, 57, 3395-3404. | 7.9 | 73 |
| 17 | Power control of DC microgrid using DC bus signaling. , 2011, , . | | 67 |
| 18 | Improved Modulation Mechanism of Parallel-Operated T-Type Three-Level PWM Rectifiers for Neutral-Point Potential Balancing and Circulating Current Suppression. IEEE Transactions on Power Electronics, 2018, 33, 7466-7479. | 7.9 | 67 |

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| 19 | An Improved Modulation Scheme of Current-Fed Bidirectional DC-DC Converters For Loss Reduction. IEEE Transactions on Power Electronics, 2018, 33, 4441-4457. | 7.9 | 64 |
| 20 | SoC-based droop method for distributed energy storage in DC microgrid applications. , 2012, , . | | 62 |
| 21 | A Three-Port Converter Based Distributed DC Grid Connected PV System With Autonomous Output Voltage Sharing Control. IEEE Transactions on Power Electronics, 2019, 34, 325-339. | 7.9 | 60 |
| 22 | A Distributed Power Control of Series-Connected Module-Integrated Inverters for PV Grid-Tied Applications. IEEE Transactions on Power Electronics, 2018, 33, 7698-7707. | 7.9 | 59 |
| 23 | Bidirectional Soft-Switching Series-Resonant Converter With Simple PWM Control and Load-Independent Voltage-Gain Characteristics for Energy Storage System in DC Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 995-1007. | 5.4 | 52 |
| 24 | Active Power Quality Improvement Strategy for Grid-Connected Microgrid Based on Hierarchical Control. IEEE Transactions on Smart Grid, 2018, 9, 3486-3495. | 9.0 | 48 |
| 25 | A Family of Five-Level Dual-Buck Full-Bridge Inverters for Grid-tied Applications. IEEE Transactions on Power Electronics, 2015, , 1-1. | 7.9 | 47 |
| 26 | A System-Level Control Strategy of Photovoltaic Grid-Tied Generation Systems for European Efficiency Enhancement. IEEE Transactions on Power Electronics, 2014, 29, 3445-3453. | 7.9 | 42 |
| 27 | A High Step-Down Multiple Output Converter With Wide Input Voltage Range Based on Quasi Two-Stage Architecture and Dual-Output <i>LLC</i> Resonant Converter. IEEE Transactions on Power Electronics, 2015, 30, 1793-1796. | 7.9 | 41 |
| 28 | A Non-Segmented PSpice Model of SiC mosfet With Temperature-Dependent Parameters. IEEE Transactions on Power Electronics, 2019, 34, 4603-4612. | 7.9 | 41 |
| 29 | Space Vector Modulation Method for Simultaneous Common Mode Voltage and Circulating Current Reduction in Parallel Three-Level Inverters. IEEE Transactions on Power Electronics, 2019, 34, 3053-3066. | 7.9 | 41 |
| 30 | A Novel Commutation Method of Matrix Converter Fed Induction Motor Drive Using RB-IGBT. IEEE Transactions on Industry Applications, 2007, 43, 777-786. | 4.9 | 36 |
| 31 | A Unified State-Space Modeling Method for a Phase-Shift Controlled Bidirectional Dual-Active Half-Bridge Converter. IEEE Transactions on Power Electronics, 2020, 35, 3254-3265. | 7.9 | 36 |
| 32 | Parallel Three-Phase Interfacing Converters Operation Under Unbalanced Voltage in Hybrid AC/DC Microgrid. IEEE Transactions on Smart Grid, 2018, 9, 1310-1322. | 9.0 | 35 |
| 33 | Improved ZVS Three-Level DC-DC Converter With Reduced Circulating Loss. IEEE Transactions on Power Electronics, 2016, 31, 6394-6404. | 7.9 | 32 |
| 34 | A photovoltaic generation system based on wide voltage-gain DC-DC converter and differential power processors for DC microgrids. Chinese Journal of Electrical Engineering, 2017, 3, 84-95. | 3.4 | 32 |
| 35 | SoC-based dynamic power sharing method with AC-bus voltage restoration for microgrid applications. , 2012, , . | | 31 |
| 36 | Evaluation on High-Efficiency Thermoelectric Generation Systems Based on Differential Power Processing. IEEE Transactions on Industrial Electronics, 2018, 65, 699-708. | 7.9 | 31 |

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| 37 | A Flexible Power Control for PV-Battery Hybrid System Using Cascaded H-Bridge Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 2184-2195. | 5.4 | 31 |
| 38 | Multi-Port DC-AC Converter With Differential Power Processing DC-DC Converter and Flexible Power Control for Battery ESS Integrated PV Systems. IEEE Transactions on Industrial Electronics, 2022, 69, 4879-4889. | 7.9 | 31 |
| 39 | Quasi-Two-Stage Multifunctional Photovoltaic Inverter With Power Quality Control and Enhanced Conversion Efficiency. IEEE Transactions on Power Electronics, 2020, 35, 7073-7085. | 7.9 | 29 |
| 40 | A Thermoelectric Generation System and Its Power Electronics Stage. Journal of Electronic Materials, 2012, 41, 1043-1050. | 2.2 | 26 |
| 41 | A crossed pack-to-cell equalizer based on quasi-resonant LC converter with adaptive fuzzy logic equalization control for series-connected lithium-ion battery strings. , 2015, , . | | 25 |
| 42 | Three-Level Bidirectional DC-DC Converter With an Auxiliary Inductor in Adaptive Working Mode for Full-Operation Zero-Voltage Switching. IEEE Transactions on Power Electronics, 2018, 33, 8537-8552. | 7.9 | 24 |
| 43 | Impact on ZVS Operation by Splitting Inductance to Both Sides of Transformer for 1-MHz GaN Based DAB Converter. IEEE Transactions on Power Electronics, 2020, 35, 11988-12002. | 7.9 | 23 |
| 44 | Virtual impedance based stability improvement for DC microgrids with constant power loads. , 2014, , . | | 22 |
| 45 | Control of parallel-connected bidirectional AC-DC converters in stationary frame for microgrid application. , 2011, , . | | 21 |
| 46 | Virtual SVPWM-Based Flexible Power Control for Dual-DC-Port DC-AC Converters in PV-Battery Hybrid Systems. IEEE Transactions on Power Electronics, 2021, 36, 11431-11443. | 7.9 | 21 |
| 47 | A phase-shift-based synchronous rectification scheme for bi-directional high-step-down CLLC resonant converters. , 2018, , . | | 20 |
| 48 | Parameter Identification of the Series Inductance in DAB Converters. IEEE Transactions on Power Electronics, 2021, 36, 7395-7399. | 7.9 | 20 |
| 49 | A full-bridge three-port converter for renewable energy application. , 2014, , . | | 19 |
| 50 | Lithium-ion batteries under pulsed current operation to stabilize future grids. Cell Reports Physical Science, 2022, 3, 100708. | 5.6 | 19 |
| 51 | Analysis and Control of Three-Phase Modular Multilevel Converters Under the Single Arm Fault Condition. IEEE Transactions on Power Electronics, 2019, 34, 8293-8298. | 7.9 | 18 |
| 52 | Resonance propagation of parallel-operated DC-AC converters with LCL filters. , 2012, , . | | 17 |
| 53 | Active Power Oscillation Cancellation With Peak Current Sharing in Parallel Interfacing Converters Under Unbalanced Voltage. IEEE Transactions on Power Electronics, 2018, 33, 10200-10214. | 7.9 | 17 |
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| 58 | A Multi-Port Bidirectional Power Conversion System for Reversible Solid Oxide Fuel Cell Applications. , 2018, , . | | 16 |
| 59 | Hybrid Connected Unified Power Quality Conditioner Integrating Distributed Generation With Reduced Power Capacity and Enhanced Conversion Efficiency. IEEE Transactions on Industrial Electronics, 2021, 68, 12340-12352. | 7.9 | 16 |
| 60 | Priority-Driven Self-Optimizing Power Control Scheme for Interlinking Converters of Hybrid AC/DC Microgrid Clusters in Decentralized Manner. IEEE Transactions on Power Electronics, 2022, 37, 5970-5983. | 7.9 | 16 |
| 61 | Analysis and control of input power factor in indirect matrix converter. , 2009, , . | | 15 |
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| 64 | Droop-control-based state-of-charge balancing method for charging and discharging process in autonomous DC microgrids. , 2014, , . | | 14 |
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| 66 | A Battery Charging Method with Natural Synchronous Rectification Features for Full-bridge CLLC Converters. IEEE Transactions on Power Electronics, 2021, , 1-1. | 7.9 | 14 |
| 67 | A TEG Efficiency Booster with Buck-Boost Conversion. Journal of Electronic Materials, 2013, 42, 1737-1744. | 2.2 | 13 |
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| 86 | A transformation method from conventional three phases full-bridge topology to conergy NPC topology. , 2011, , . | | 8 |
| 87 | A high efficiency step-up DC-DC converter for thermoelectric generator with wide input voltage range. , 2012, , . | | 8 |
| 88 | An optimized common mode voltage reduction PWM strategy for T-type three phase three level photovoltaic grid-tied inverter. , 2013, , . | | 8 |
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| 95 | Instantaneous power calculation based on intrinsic frequency of single-phase virtual synchronous generator. Journal of Modern Power Systems and Clean Energy, 2017, 5, 970-978. | 5.4 | 7 |
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| 99 | A systematic topology generation method for dual-buck inverters. , 2016, , . | | 6 |
| 100 | Unified state-space modeling method for dual-active-bridge converters considering bidirectional phase shift. , 2018, , . | | 6 |
| 101 | A Temperature-dependent PSpice Short-circuit Model of SiC MOSFET. , 2019, , . | | 6 |
| 102 | A Hybrid Compensation Scheme for the Gate Drive Delay in CLLC Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1119-1132. | 5.4 | 6 |
| 103 | A High Step-Up Modular Isolated DC-DC Converter for Large Capacity Photovoltaic Generation System Integrated into MVDC Grids. , 2019, , . | | 6 |
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| 107 | Performance evaluation of a non-isolated bidirectional three-port power converter for energy storage applications. , 2016, , . | | 5 |
| 108 | PCC voltage power quality restoring strategy based on the droop controlled gridâ€“connecting microgrid. Journal of Engineering, 2017, 2017, 1399-1403. | 1.1 | 5 |

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| 109 | Analysis and design of enhanced DFT-based controller for selective harmonic compensation in active power filters. , 2018, , . | | 5 |
| 110 | Bi-Directional Grid-Connected Modular Multilevel Converters With Direct Digital Control and D-Î Processes. IEEE Transactions on Power Electronics, 2019, 34, 11290-11299. | 7.9 | 5 |
| 111 | Fault Current Mitigation and Voltage Support Provision by Microgrids With Synchronous Generators. IEEE Transactions on Smart Grid, 2020, 11, 2816-2831. | 9.0 | 5 |
| 112 | A Hybrid Voltage/Current Control Scheme With Low-Communication Burden for Grid-Connected Series-Type Inverters in Decentralized Manner. IEEE Transactions on Power Electronics, 2022, 37, 920-931. | 7.9 | 5 |
| 113 | Speed control of induction motors using a nonlinear auto-disturbance rejection controller. , 0, , . | | 4 |
| 114 | An Improved Matrix Converter Fed Induction Motor Vector Control Drive with Output Voltage Error Cancellation. IEEE Applied Power Electronics Conference and Exposition, 2007, , . | 0.0 | 4 |
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| 117 | A PV generation system based on centralized-distributed structure and cascaded power balancing mechanism for DC microgrids. , 2015, , . | | 4 |
| 118 | Three-level dual active bridge with auxiliary inductor for wide zero voltage switching for energy storage system in DC microgrid. , 2017, , . | | 4 |
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| 120 | An Inner Phase Shift Control Scheme for the CLLC Converter. , 2022, , . | | 4 |
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| 122 | A nonlinear robust controller for matrix converter fed induction motor drives. , 2005, , . | | 3 |
| 123 | A novel safe shutdown strategy for matrix converter even under fault condition. , 0, , . | | 3 |
| 124 | Single current sensor control for PWM inverter fed AC motor drives under over-modulation mode. , 2009, , . | | 3 |
| 125 | A specific analysis model of three-level NPC inverter fed adjustable speed drive system with high accuracy. , 2014, , . | | 3 |
| 126 | Negative sequence droop method based hierarchical control for low voltage ride-through in grid-interactive microgrids. , 2015, , . | | 3 |

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| 127 | Three level DC-DC converter based on cascaded dual half-bridge converter for circulating loss reduction. , 2016, , . | | 3 |
| 128 | Control strategy for parallel-operated virtual synchronous generators. , 2016, , . | | 3 |
| 129 | A non-segmented PSpice model of SiC MOSFETs. , 2017, , . | | 3 |
| 130 | Comparison of High Power DC-DC Converters for Photovoltaic Generation Integrated into Medium Voltage DC Grids. , 2018, , . | | 3 |
| 131 | Optimization of Cell Voltage and Circulating Current With Zero-Mean Current Command Injection in Modular Multilevel Converters. IEEE Transactions on Industrial Electronics, 2020, 67, 9429-9438. | 7.9 | 3 |
| 132 | A novel method to enhance the voltage transfer ratio of matrix converter. , 0, , . | | 2 |
| 133 | An improved driving and protection circuit for reverse blocking IGBT. , 0, , . | | 2 |
| 134 | A novel commutation method of matrix converter fed induction motor drive using RB-IGBT. , 0, , . | | 2 |
| 135 | A grid-connected hybrid cascaded H-bridge inverter. , 2011, , . | | 2 |
| 136 | High performance vector control of IPMSM drive fed by indirect matrix converter. , 2011, , . | | 2 |
| 137 | A Fuzzy logic based parameter auto-tuning method in MRAS for sensorless interior permanent magnet synchronous motor drives with cyclic fluctuating load. , 2013, , . | | 2 |
| 138 | Cost effective capacitor voltage balancing control for five-level grid-tied inverters. , 2016, , . | | 2 |
| 139 | The frequency fluctuation impact analysis for droop controlled grid-connecting inverter in microgrid. , 2016, , . | | 2 |
| 140 | A smooth switch method for battery energy storage systems between Vf mode and PQ mode by utilizing electromagnetic relay. , 2016, , . | | 2 |
| 141 | An isolated soft-switching buck-boost converter utilizing two transformers and embedded bidirectional switches on secondary-side for wide voltage applications. , 2016, , . | | 2 |
| 142 | A High Efficiency Quasi-Single-Stage Unified Power Quality Conditioner Integrating Distributed Generation. , 2019, , . | | 2 |
| 143 | Topologies for Reduction of Second Harmonic Ripple in Battery Energy Storage Systems. , 2019, , . | | 2 |
| 144 | An Improved Decentralized Control of Cascaded Inverters with Robust Stability against Grid-Voltage Variation. IEEE Transactions on Energy Conversion, 2021, , 1-1. | 5.2 | 2 |

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| 145 | An interleaved-series/parallel forward converter with wide input voltage range. , 2012, , . | | 1 |
| 146 | A dual-active-bridge converter-based high step-up converter with voltage-multiplier for high-efficiency PV application. , 2015, , . | | 1 |
| 147 | Voltage support for industrial distribution network by using positive/negative sequence passivity-based control. , 2016, , . | | 1 |
| 148 | Modeling and decoupled control of a non-isolated high step-up/down bidirectional DC-DC converter. , 2016, , . | | 1 |
| 149 | Small signal analysis of photovoltaic-energy storage integrated virtual synchronous generator. , 2017, , . | | 1 |
| 150 | Circulating Current Suppression for Modular Multi-level Converters with Direct Digital Control. , 2018, , . | | 1 |
| 151 | A Constant Current Control Method with Improved Dynamic Performance for CLLC Converters. , 2021, , . | | 1 |
| 152 | A combined controller for induction motor fed by matrix converter. , 0, , . | | 0 |
| 153 | A novel driving and protection circuit for reverse blocking IGBT used in matrix converter. , 0, , . | | 0 |
| 154 | RB-IGBT gate drive circuit and its application in two-stage matrix converter. , 2005, , . | | 0 |
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| 156 | Utility power supply based on indirect matrix converter for electromagnetic stirrer. , 2009, , . | | 0 |
| 157 | Control strategy of high performance IPMSM drive in wide speed range. , 2011, , . | | 0 |
| 158 | A weighted efficiency enhancement control for modular grid-tied photovoltaic generation system. , 2011, , . | | 0 |
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| 160 | An improved rotor speed estimation method of IPMSM drives with cyclic fluctuating load. , 2012, , . | | 0 |
| 161 | A high light-load efficiency dual active bridge converter with split inductors. , 2014, , . | | 0 |
| 162 | Peak current-based control of parallel three-phase interfacing converters operation under unbalanced voltage. , 2016, , . | | 0 |

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| 163 | Circulating current reduced three level DC-DC converter with two transformers for battery chargers. , 2016, , . | | 0 |
| 164 | Cascaded power balancing mechanism based on resonant switched capacitor topology for photovoltaic systems. , 2016, , . | | 0 |
| 165 | Analysis and suppression of circulating currents in parallel-operated T-type three-level PWM rectifiers. , 2017, , . | | 0 |
| 166 | Guest Editorial Special Section on Energy Internet. IEEE Transactions on Industrial Informatics, 2019, 15, 1753-1755. | 11.3 | 0 |
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| 168 | Comparison of Neutral-Point Balancing Mechanism in Parallel-Operated T-Type Three-Level PWM AC/DC Interface Converters. , 2021, , . | | 0 |