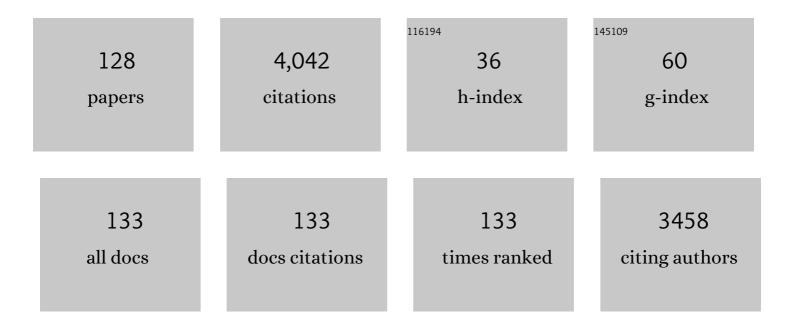
## **Zhikang Shuai**

List of Publications by Year in descending order

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ΖΗΙΚΑΝΟ ΣΗΠΑΙ

| #  | Article   | IF  | CITATIONS |
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| 1  | Transient Stabilization Control of Electric Synchronous Machine for Preventing the Collapse of DC-Link Voltage. IEEE Transactions on Smart Grid, 2023, 14, 82-93.   | 6.2 | 5         |
| 2  | Dynamic Stability Improvement and Accurate Power Regulation of Single-Phase Virtual Oscillator<br>Based Microgrids. IEEE Transactions on Sustainable Energy, 2022, 13, 277-289.   | 5.9 | 6         |
| 3  | A Unified Model of Voltage-Controlled Inverter for Transient Angle Stability Analysis. IEEE<br>Transactions on Power Delivery, 2022, 37, 2275-2288.   | 2.9 | 13        |
| 4  | Dynamical Reconfigurable Master–Slave Control Architecture (DRMSCA) for Voltage Regulation in<br>Islanded Microgrids. IEEE Transactions on Power Electronics, 2022, 37, 249-263.  | 5.4 | 7         |
| 5  | Detection and Identification of Power Device Failures Using Discrete Fourier Transform for<br>Fault-Tolerant Operation of Flying Capacitor Multilevel Converters. IEEE Journal of Emerging and<br>Selected Topics in Power Electronics, 2022, 10, 5081-5091.              | 3.7 | 1         |
| 6  | Vector Analysis Based Multiobjective-Modulated Model Predictive Control for Four-Switching-State<br>Multilevel Converters. IEEE Transactions on Industrial Electronics, 2022, 69, 12999-13010.  | 5.2 | 4         |
| 7  | Single-Phase to Ground Fault Line Identification for Medium Voltage Islanded Microgrids With<br>Neutral Ineffectively Grounded Modes. IEEE Transactions on Smart Grid, 2022, 13, 4312-4326.   | 6.2 | 7         |
| 8  | Transient Synchronization Stability Analysis and Enhancement of Paralleled Converters Considering<br>Different Current Injection Strategies. IEEE Transactions on Sustainable Energy, 2022, 13, 1957-1968.  | 5.9 | 14        |
| 9  | A Multilateral Transactive Energy Framework of Hybrid Charging Stations for Low-Carbon<br>Energy-Transport Nexus. IEEE Transactions on Industrial Informatics, 2022, 18, 8270-8281.   | 7.2 | 9         |
| 10 | Wideband <i>dq</i> -Frame Impedance Modeling of Load-Side Virtual Synchronous Machine and Its<br>Stability Analysis in Comparison With Conventional PWM Rectifier in Weak Grid. IEEE Journal of<br>Emerging and Selected Topics in Power Electronics, 2021, 9, 2440-2451. | 3.7 | 19        |
| 11 | Transient Stability and Current Injection Design of Paralleled Current-Controlled VSCs and Virtual Synchronous Generators. IEEE Transactions on Smart Grid, 2021, 12, 1118-1134.  | 6.2 | 41        |
| 12 | Stability Analysis and Location Optimization Method for Multiconverter Power Systems Based on<br>Nodal Admittance Matrix. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9,<br>529-538.   | 3.7 | 32        |
| 13 | Power Management for Islanded Hybrid AC/DC Microgrid With Low-bandwidth Communication. IEEE Transactions on Energy Conversion, 2021, 36, 2646-2658.   | 3.7 | 12        |
| 14 | Small-Signal Stability Analysis Method for Hybrid AC–DC Systems With Multiple DC Buses. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2021, 11, 17-27.  | 2.7 | 14        |
| 15 | Waveform Difference Feature-Based Protection Scheme for Islanded Microgrids. IEEE Transactions on Smart Grid, 2021, 12, 1939-1952.  | 6.2 | 13        |
| 16 | Flexible Control Strategy for Enhancing Power Injection Capability of Three-Phase Four-Wire Inverter<br>During Asymmetrical Grid Faults. IEEE Transactions on Power Electronics, 2021, 36, 9592-9608.   | 5.4 | 11        |
| 17 | Impedance Analysis and Stabilization of Virtual Synchronous Generators With Different DC-Link<br>Voltage Controllers Under Weak Grid. IEEE Transactions on Power Electronics, 2021, 36, 11397-11408.  | 5.4 | 38        |
| 18 | Transient Voltage Stability of Paralleled Synchronous and Virtual Synchronous Generators With<br>Induction Motor Loads. IEEE Transactions on Smart Grid, 2021, 12, 4983-4999.   | 6.2 | 14        |

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| 19 | A Table Segmentation and Text Information Extraction Method for Power Work Ticket. , 2021, , .  |     | 1         |
| 20 | Fault Ride Through Control Methods of VSG Controlled IIDGs. , 2021, , 81-100.   |     | 0         |
| 21 | Spatial-Scale Model Reduction of Multi-Microgrid Based on Dynamic Equivalent Theory. , 2021, , 161-184.   |     | Ο         |
| 22 | Modeling and Stability Analysis of Asymmetrical Microgrid Based on Dynamic Phasor Theory. , 2021, ,<br>185-216.   |     | 0         |
| 23 | Asymmetrical Voltage Support Control of Three- Phase Four-Wire Inverters with Zero Active Power<br>Oscillation during Grid Faults. , 2021, , .  |     | 1         |
| 24 | Transient Angle Stability Prediction of Virtual Synchronous Generator Using LSTM Neural Network. , 2021, , .  |     | 4         |
| 25 | Analysis and Control of Modular Multi-terminal DC Power Flow Controller with Fault Current<br>Limiting Function. Journal of Modern Power Systems and Clean Energy, 2021, 9, 1375-1385.    | 3.3 | 5         |
| 26 | Analysis of An Abnormal Overcurrent Phenomenon of Fault Ride-Through of Virtual Synchronous<br>Generator. , 2021, , .   |     | 0         |
| 27 | Active Power Oscillation and Suppression Techniques Between Two Parallel Synchronverters During Load Fluctuations. IEEE Transactions on Power Electronics, 2020, 35, 4127-4142.           | 5.4 | 75        |
| 28 | Modeling and Stability Analysis of Inverter-Based Microgrid Under Harmonic Conditions. IEEE Transactions on Smart Grid, 2020, 11, 1330-1342.  | 6.2 | 50        |
| 29 | Performance Improvement of the Unbalanced Voltage Compensation in Islanded Microgrid Based on<br>Small-Signal Analysis. IEEE Transactions on Industrial Electronics, 2020, 67, 5531-5542. | 5.2 | 30        |
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| 31 | General High-Frequency-Link Analysis and Application of Dual Active Bridge Converters. IEEE<br>Transactions on Power Electronics, 2020, 35, 8673-8688.                                    | 5.4 | 11        |
| 32 | Robust Control Parameters Design of PBC Controller for <i>LCL</i> -Filtered Grid-Tied Inverter. IEEE<br>Transactions on Power Electronics, 2020, 35, 8102-8115.                           | 5.4 | 35        |
| 33 | Asymmetrical Fault Current Calculation Method and Coupling Effect Analysis in N-Paralleled Droop-Controlled Inverters. , 2020, , .  |     | 1         |
| 34 | Modeling and Analysis of Low-Frequency Oscillation in PETT-based Train-network System. , 2020, , .  |     | 0         |
| 35 | Power Oscillation Control of Grid-Feeding Converter Considering Next Generation Grid Code During Asymmetrical Faults. , 2020, , .   |     | 0         |
| 36 | Comparison of Transient Angle Stability Between Virtual Synchronous Generator and<br>Droop-controlled Inverter. , 2020, , .   |     | 5         |

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| 37 | A New PFC Design With Interleaved MHz-Frequency GaN Auxiliary Active Filter Phase and<br>Low-Frequency Base Power Si Phase. IEEE Journal of Emerging and Selected Topics in Power<br>Electronics, 2020, 8, 557-566.               | 3.7 | 18        |
| 38 | A Novel Harmonic Suppression Traction Transformer with Integrated Filtering Inductors for Railway Systems. Energies, 2020, 13, 473.   | 1.6 | 9         |
| 39 | Transient Angle Stability of Paralleled Synchronous and Virtual Synchronous Generators in Islanded<br>Microgrids. IEEE Transactions on Power Electronics, 2020, 35, 8751-8765.  | 5.4 | 121       |
| 40 | Coordinated Control for Power Balance Based on Per-Unit Voltage for Multivoltage-Level DC<br>Microgrid. , 2020, , .   |     | 1         |
| 41 | An Active Clamping Control Method for DC Solid State Circuit Breaker Based on Cascaded SiC JFETs. , 2020, , .   |     | 1         |
| 42 | Transient Response Analysis of Inverter-Based Microgrids Under Unbalanced Conditions Using a Dynamic Phasor Model. IEEE Transactions on Industrial Electronics, 2019, 66, 2868-2879.  | 5.2 | 65        |
| 43 | Frequency Shifting and Filtering Algorithm for Power System Harmonic Estimation. IEEE Transactions on Industrial Informatics, 2019, 15, 1554-1565.  | 7.2 | 26        |
| 44 | Dynamic Equivalent Modeling for Multi-Microgrid Based on Structure Preservation Method. IEEE<br>Transactions on Smart Grid, 2019, 10, 3929-3942.  | 6.2 | 51        |
| 45 | Robust Circuit Parameters Design for the CLLC-Type DC Transformer in the Hybrid AC–DC Microgrid.<br>IEEE Transactions on Industrial Electronics, 2019, 66, 1906-1918.   | 5.2 | 102       |
| 46 | A Maximum Power Loading Factor (MPLF) Control Strategy for Distributed Secondary Frequency Regulation of Islanded Microgrid. IEEE Transactions on Power Electronics, 2019, 34, 2275-2291.   | 5.4 | 35        |
| 47 | Comparative Study of Short-Circuit Fault Characteristics for VSC-Based DC Distribution Networks<br>With Different Distributed Generators. IEEE Journal of Emerging and Selected Topics in Power<br>Electronics, 2019, 7, 528-540. | 3.7 | 40        |
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| 51 | Control Techniques for Bidirectional Interlinking Converters in Hybrid Microgrids: Leveraging the advantages of both ac and dc. IEEE Power Electronics Magazine, 2019, 6, 39-47.  | 0.6 | 33        |
| 52 | Modulated Model Predictive Control for Modular Multilevel AC/AC Converter. IEEE Transactions on Power Electronics, 2019, 34, 10359-10372.   | 5.4 | 26        |
| 53 | The Impact of Ramp-Induced Data Attacks on Power System Operational Security. IEEE Transactions on Industrial Informatics, 2019, 15, 5064-5075.   | 7.2 | 4         |
| 54 | Transient Characteristics of Synchronverters Subjected to Asymmetric Faults. IEEE Transactions on Power Delivery, 2019, 34, 1171-1183.  | 2.9 | 29        |

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| 55 | Secondary Power Sharing Regulation Strategy for a DC Microgrid via Maximum Loading Factor. IEEE<br>Transactions on Power Electronics, 2019, 34, 11856-11867.  | 5.4 | 19        |
| 56 | A SiC JFET-Based Solid State Circuit Breaker With Digitally Controlled Current-Time Profiles. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1556-1565.                                      | 3.7 | 36        |
| 57 | Stability Analysis of Low-Frequency Oscillation in Train-Network System Using RLC Circuit Model. IEEE Transactions on Transportation Electrification, 2019, 5, 502-514.   | 5.3 | 16        |
| 58 | Parameter Stability Region Analysis of Islanded Microgrid Based on Bifurcation Theory. IEEE<br>Transactions on Smart Grid, 2019, 10, 6580-6591.   | 6.2 | 49        |
| 59 | A Notch Filter-Based Active Damping Control Method for Low-Frequency Oscillation Suppression in Train–Network Interaction Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 2417-2427. | 3.7 | 17        |
| 60 | Short-Circuit Fault Analysis of Energy Storage System Converter with Different Control in DC Microgrid. , 2019, , .   |     | 3         |
| 61 | Comparison of Transient Angle Stability Between Different Virtual Synchronous Generators. , 2019, , .   |     | 0         |
| 62 | Power Electronic Traction Transformer Based on No Phase-locked Loop Control. , 2019, , .  |     | 0         |
| 63 | 5-Level Flying Capacitor Bridgeless PFC Converter Using Cost-Effective Low-Voltage GaN Transistors. ,<br>2019, , .  |     | 5         |
| 64 | A Calculation Method of Asymmetric Faults Current in Three-Phase Four-Wire Synchronverter. , 2019, ,  |     | 0         |
| 65 | An Asymmetrical Fault Current Iterative Algorithm of Droop-controlled Inverter. , 2019, , .   |     | 1         |
| 66 | Re-synchronization Capability Analysis of Virtual Synchronous Generators in Microgrids. , 2019, , .   |     | 2         |
| 67 | A 400V/300A Ultra-Fast Intelligent DC Solid State Circuit Breaker Using Parallel Connected SiC JFETs. , 2019, , .   |     | 2         |
| 68 | A 2 kV Intelligent DC Solid State Circuit Breaker Using Series Connected SiC JFETs. , 2019, , .   |     | 2         |
| 69 | Optimal Transmission Overloads Mitigation Following Disturbances in Power Systems. IEEE<br>Transactions on Industrial Informatics, 2019, 15, 2592-2604.   | 7.2 | 14        |
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| 71 | Dual-Functional Dynamic Voltage Restorer to Limit Fault Current. IEEE Transactions on Industrial Electronics, 2019, 66, 5300-5309.  | 5.2 | 60        |
| 72 | Overcurrent and its Restraining Method of PQ-Controlled Three-Phase Four-Wire Converter Under<br>Asymmetrical Grid Fault. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7,<br>2057-2069.       | 3.7 | 21        |

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| 75 | Lowâ€frequency harmonic resonance analysis and suppression method of modular multilevel converter. IET Power Electronics, 2018, 11, 755-763.  | 1.5 | 9         |
| 76 | Fault Analysis of Inverter-Interfaced Distributed Generators With Different Control Schemes. IEEE Transactions on Power Delivery, 2018, 33, 1223-1235.  | 2.9 | 176       |
| 77 | Eigenvalue Sensitivity of Stability Analysis for a Droop Controlled Inverter. , 2018, , .   |     | 4         |
| 78 | A Deep Neural Network Based Predictive Control Strategy for High Frequency Multilevel Converters. , 2018, , .   |     | 7         |
| 79 | Fast inrush voltage and current restraining method for droop controlled inverter during grid fault clearance in distribution network. IET Generation, Transmission and Distribution, 2018, 12, 4597-4604.           | 1.4 | 6         |
| 80 | Dynamic-Phasor Modeling and Transient Analysis of Inverter-Based Microgrid Under Unbalanced and Harmonic Condition. , 2018, , .   |     | 3         |
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| 82 | Cyber Cascades Screening Considering the Impacts of False Data Injection Attacks. IEEE Transactions on Power Systems, 2018, 33, 6545-6556.  | 4.6 | 66        |
| 83 | A Flexible Power Control Strategy for Hybrid AC/DC Zones of Shipboard Power System With<br>Distributed Energy Storages. IEEE Transactions on Industrial Informatics, 2018, 14, 5496-5508.                           | 7.2 | 58        |
| 84 | Dynamic Stability Analysis of Synchronverter-Dominated Microgrid Based on Bifurcation Theory. IEEE<br>Transactions on Industrial Electronics, 2017, 64, 7467-7477.  | 5.2 | 150       |
| 85 | Characteristics and Restraining Method of Fast Transient Inrush Fault Currents in Synchronverters.<br>IEEE Transactions on Industrial Electronics, 2017, 64, 7487-7497.   | 5.2 | 158       |
| 86 | Reduced order modeling method of inverter-based microgrid for stability analysis. , 2017, , .   |     | 13        |
| 87 | Cyber Attacks Against the Economic Operation of Power Systems: A Fast Solution. IEEE Transactions on Smart Grid, 2017, 8, 1023-1025.  | 6.2 | 73        |
| 88 | A New Proportional Base Drive Technique for SiC Bipolar Junction Transistor. IEEE Transactions on Power Electronics, 2017, 32, 4600-4606.   | 5.4 | 14        |
| 89 | Bifurcation analysis of the islanded microâ€grid with constant power loads. Journal of Engineering, 2017, 2017, 1912-1917.  | 0.6 | 1         |
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| 98  | Simulation Study of an Insulated Gate Bipolar Transistor With Pinched-Off N-Type Pillar. IEEE Journal of the Electron Devices Society, 2016, 4, 144-148.   | 1.2 | 4         |
| 99  | Droop control method for load share and voltage regulation in high-voltage microgrids. Journal of<br>Modern Power Systems and Clean Energy, 2016, 4, 76-86.  | 3.3 | 38        |
| 100 | A Railway Traction Power Conditioner Using Modular Multilevel Converter and Its Control Strategy<br>for High-Speed Railway System. IEEE Transactions on Transportation Electrification, 2016, 2, 96-109. | 5.3 | 107       |
| 101 | Multilevel Cascaded-Type Dynamic Voltage Restorer With Fault Current-Limiting Function. IEEE<br>Transactions on Power Delivery, 2016, 31, 1261-1269.   | 2.9 | 44        |
| 102 | An Improved Control Method for Multiple Bidirectional Power Converters in Hybrid AC/DC Microgrid. IEEE Transactions on Smart Grid, 2016, 7, 340-347.   | 6.2 | 131       |
| 103 | An Insulated-Gate Bipolar Transistor With a Collector Trench Electron Extraction Channel. IEEE<br>Electron Device Letters, 2015, 36, 935-937.  | 2.2 | 11        |
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| 105 | Largeâ€scale photovoltaic plant harmonic transmission model and analysis on resonance characteristics. IET Power Electronics, 2015, 8, 565-573.  | 1.5 | 20        |
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| 109 | A self-powered bidirectional DC solid state circuit breaker using two normally-on SiC JFETs. , 2015, , .  |     | 21        |
| 110 | Design Considerations of a Fault Current Limiting Dynamic Voltage Restorer (FCL-DVR). IEEE<br>Transactions on Smart Grid, 2015, 6, 14-25.   | 6.2 | 78        |
| 111 | Feasibility of high voltage SiC thyristor in HVDC transmission. , 2014, , .   |     | 9         |
| 112 | Voltage ripple analysis of simplified active power compensator for negative sequence and reactive power compensation. IET Power Electronics, 2014, 7, 2582-2594.                              | 1.5 | 9         |
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| 116 | An Improved Reactive Current Detection and Power Control Method for Single-Phase Photovoltaic<br>Grid-Connected DG System. IEEE Transactions on Energy Conversion, 2013, 28, 823-831.         | 3.7 | 69        |
| 117 | Development and Application of the Two-Phase Orthogonal Power Supply for Electromagnetic Stirring. IEEE Transactions on Power Electronics, 2013, 28, 3438-3446.                               | 5.4 | 6         |
| 118 | Robust predictive dualâ€loop control strategy with reactive power compensation for singleâ€phase<br>gridâ€connected distributed generation system. IET Power Electronics, 2013, 6, 1320-1328. | 1.5 | 36        |
| 119 | Power Electronic Hybrid System for Load Balancing Compensation and Frequency-Selective Harmonic Suppression. IEEE Transactions on Industrial Electronics, 2012, 59, 723-732.                  | 5.2 | 89        |
| 120 | Railway Static Power Conditioners for High-speed Train Traction Power Supply Systems Using<br>Three-phase V/V Transformers. IEEE Transactions on Power Electronics, 2011, 26, 2844-2856.      | 5.4 | 118       |
| 121 | Harmonic Prediction Control for Time Delay Canceling and its Realization in Distribution Static<br>Synchronous Compensator. , 2009, , .   |     | 1         |
| 122 | Combined System for Harmonic Suppression and Reactive Power Compensation. IEEE Transactions on Industrial Electronics, 2009, 56, 418-428.   | 5.2 | 183       |
| 123 | Study on a Novel Hybrid Active Power Filter Applied to a High-Voltage Grid. IEEE Transactions on Power Delivery, 2009, 24, 2344-2352.   | 2.9 | 42        |
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| 125 | Integrated mathematical model and closed loop control characteristic analysis of hybrid active power filter. , 2009, , .  |     | 0         |
| 126 | Design Considerations for Maintaining DC-Side Voltage of Hybrid Active Power Filter With Injection<br>Circuit. IEEE Transactions on Power Electronics, 2009, 24, 75-84.                       | 5.4 | 68        |

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| 127 | Configuration of a Novel Hybrid Active Power Filter and its Control Method. , 2009, , .                    |    | 1         |
| 128 | Development of a comprehensive power quality controlling device for power distribution system. , 2008, , . |    | 1         |