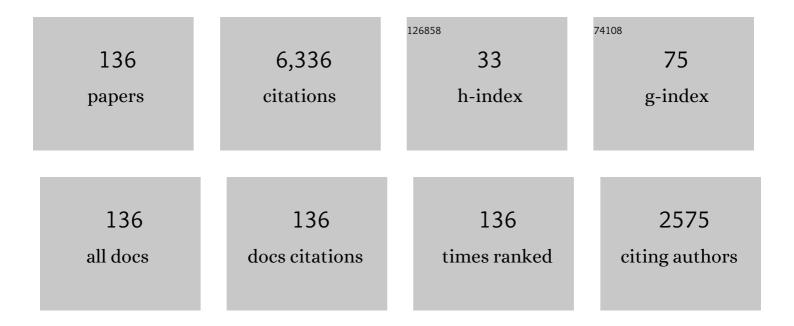
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List of Publications by Year in descending order

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| #  | Article  | IF  | CITATIONS |
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| 1  | Step-Up DC–DC Converters: A Comprehensive Review of Voltage-Boosting Techniques, Topologies, and Applications. IEEE Transactions on Power Electronics, 2017, 32, 9143-9178.                                | 5.4 | 1,348     |
| 2  | Impedance-Source Networks for Electric Power Conversion Part I: A Topological Review. IEEE<br>Transactions on Power Electronics, 2015, 30, 699-716.  | 5.4 | 641       |
| 3  | Impedance-Source Networks for Electric Power Conversion Part II: Review of Control and Modulation Techniques. IEEE Transactions on Power Electronics, 2015, 30, 1887-1906.                                 | 5.4 | 349       |
| 4  | High-Efficiency High Step-Up DC–DC Converter With Dual Coupled Inductors for Grid-Connected Photovoltaic Systems. IEEE Transactions on Power Electronics, 2018, 33, 5967-5982.                             | 5.4 | 323       |
| 5  | Transformerless Inverter Topologies for Single-Phase Photovoltaic Systems: A Comparative Review.<br>IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 805-835.                   | 3.7 | 248       |
| 6  | Common-Ground-Type Transformerless Inverters for Single-Phase Solar Photovoltaic Systems. IEEE<br>Transactions on Industrial Electronics, 2018, 65, 2100-2111.   | 5.2 | 246       |
| 7  | Y-Source Impedance Network. IEEE Transactions on Power Electronics, 2014, 29, 3250-3254.   | 5.4 | 195       |
| 8  | New Magnetically Coupled Impedance (Z-) Source Networks. IEEE Transactions on Power Electronics, 2016, 31, 7419-7435.  | 5.4 | 118       |
| 9  | A Novel Seven-Level Active Neutral-Point-Clamped Converter With Reduced Active Switching Devices and DC-Link Voltage. IEEE Transactions on Power Electronics, 2019, 34, 10492-10508.                       | 5.4 | 111       |
| 10 | Y-Source Boost DC/DC Converter for Distributed Generation. IEEE Transactions on Industrial Electronics, 2015, 62, 1059-1069.   | 5.2 | 109       |
| 11 | Single Switch Nonisolated Ultra-Step-Up DC–DC Converter With an Integrated Coupled Inductor for<br>High Boost Applications. IEEE Transactions on Power Electronics, 2017, 32, 8544-8558.                   | 5.4 | 107       |
| 12 | Comparison of Impedance-Source Networks for Two and Multilevel Buck–Boost Inverter Applications.<br>IEEE Transactions on Power Electronics, 2016, 31, 7564-7579.   | 5.4 | 95        |
| 13 | Six-Switch Step-Up Common-Grounded Five-Level Inverter With Switched-Capacitor Cell for<br>Transformerless Grid-Tied PV Applications. IEEE Transactions on Industrial Electronics, 2021, 68,<br>1374-1387. | 5.2 | 92        |
| 14 | A New Switched-Capacitor Five-Level Inverter Suitable for Transformerless Grid-Connected Applications. IEEE Transactions on Power Electronics, 2020, 35, 8140-8153.  | 5.4 | 83        |
| 15 | Quasi-Y-Source Boost DC–DC Converter. IEEE Transactions on Power Electronics, 2015, 30, 6514-6519.   | 5.4 | 79        |
| 16 | Switched Capacitor Integrated (2 <i>n</i> + 1)-Level Step-Up Single-Phase Inverter. IEEE Transactions on<br>Power Electronics, 2020, 35, 8248-8260.  | 5.4 | 75        |
| 17 | A Novel Generalized Common-Ground Switched-Capacitor Multilevel Inverter Suitable for<br>Transformerless Grid-Connected Applications. IEEE Transactions on Power Electronics, 2021, 36,<br>10293-10306.    | 5.4 | 73        |
| 18 | A Fault-Tolerant Hybrid Cascaded H-Bridge Multilevel Inverter. IEEE Transactions on Power<br>Electronics, 2020, 35, 12702-12715.   | 5.4 | 72        |

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| 20 | Analysis and Design of a Novel Six-Switch Five-Level Active Boost Neutral Point Clamped Inverter. IEEE<br>Transactions on Industrial Electronics, 2020, 67, 10485-10496.                                    | 5.2 | 67        |
| 21 | Effects of Leakage Inductances on Magnetically Coupled Y-Source Network. IEEE Transactions on Power Electronics, 2014, 29, 5662-5666.   | 5.4 | 63        |
| 22 | New Semiquadratic High Step-Up DC/DC Converter for Renewable Energy Applications. IEEE<br>Transactions on Power Electronics, 2021, 36, 433-446.   | 5.4 | 59        |
| 23 | Highâ€voltage boost quasiâ€Zâ€source isolated DC/DC converter. IET Power Electronics, 2014, 7, 2387-2395.   | 1.5 | 55        |
| 24 | A new six-switch five-level boost-active neutral point clamped (5L-Boost-ANPC) inverter. , 2018, , .  |     | 50        |
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| 26 | A-Source Impedance Network. IEEE Transactions on Power Electronics, 2016, , 1-1.  | 5.4 | 48        |
| 27 | Dual-T-Type Five-Level Cascaded Multilevel Inverter With Double Voltage Boosting Gain. IEEE<br>Transactions on Power Electronics, 2020, 35, 9522-9529.  | 5.4 | 44        |
| 28 | Design, Control, and Analysis of a Novel Grid-Interfaced Switched-Boost Dual T-Type Five-Level<br>Inverter With Common-Ground Concept. IEEE Transactions on Industrial Electronics, 2021, 68,<br>8193-8206. | 5.2 | 44        |
| 29 | A Common Grounded Type Dual-Mode Five-Level Transformerless Inverter for Photovoltaic<br>Applications. IEEE Transactions on Industrial Electronics, 2021, 68, 9742-9754.                                    | 5.2 | 43        |
| 30 | A New High-Gain, High-Efficiency SEPIC-Based DC–DC Converter for Renewable Energy Applications.<br>IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2021, 2, 567-578.                | 3.0 | 42        |
| 31 | A Novel Single-Stage Five-Level Common-Ground-Boost-Type Active Neutral-Point-Clamped (5L-CGBT-ANPC) Inverter. IEEE Transactions on Power Electronics, 2021, 36, 6192-6196.                                 | 5.4 | 41        |
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| 35 | A Novel Full Soft-Switching High-Gain DC/DC Converter Based on Three-Winding Coupled-Inductor.<br>IEEE Transactions on Power Electronics, 2021, 36, 12656-12669.  | 5.4 | 38        |
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| 37 | Small-Signal Modeling and Comprehensive Analysis of Magnetically Coupled Impedance-Source Converters. IEEE Transactions on Power Electronics, 2016, 31, 7621-7641.  | 5.4 | 34        |
| 38 | Design of FPGA-controlled power electronics and drives using MATLAB Simulink. , 2013, , .   |     | 33        |
| 39 | Y-source impedance network. , 2014, , .   |     | 33        |
| 40 | A Trans-Inverse Coupled-Inductor Semi-SEPIC DC/DC Converter With Full Control Range. IEEE Transactions on Power Electronics, 2019, 34, 10398-10402.   | 5.4 | 31        |
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| 42 | A Novel Boost Cascaded Multilevel Inverter. IEEE Transactions on Industrial Electronics, 2021, 68, 8072-8080.   | 5.2 | 30        |
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| 48 | A survey on voltage boosting techniques for step-up DC-DC converters. , 2016, , .   |     | 26        |
| 49 | Nine-Level Nine-Switch Common-Ground Switched-Capacitor Inverter Suitable for High-Frequency AC-Microgrid Applications. IEEE Transactions on Power Electronics, 2022, 37, 6132-6143.  | 5.4 | 26        |
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| 53 | Switched-Capacitor-Based Five-Level T-Type Inverter (SC-5TI) With Soft-Charging and Enhanced DC-Link<br>Voltage Utilization. IEEE Transactions on Power Electronics, 2021, 36, 13958-13967.   | 5.4 | 23        |
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| 56 | Generalized diamondâ€ŧype single DCâ€source switchedâ€capacitor based multilevel inverter with stepâ€up<br>and natural voltage balancing capabilities. IET Power Electronics, 2021, 14, 1208-1218.                        | 1.5 | 20        |
| 57 | High Step-Up SEPIC-Based Trans-Inverse DC–DC Converter With Quasi-Resonance Operation for<br>Renewable Energy Applications. IEEE Transactions on Industrial Electronics, 2023, 70, 485-497.                               | 5.2 | 20        |
| 58 | Improved modulation Technique for voltage fed quasi-Z-source DC/DC converter. , 2014, , .   |     | 19        |
| 59 | Switchedâ€capacitor multilevel inverter with selfâ€voltageâ€balancing for highâ€frequency power distribution system. IET Power Electronics, 2020, 13, 1807-1818.  | 1.5 | 19        |
| 60 | A Single-Phase Common-Ground Five-Level Transformerless Inverter With Low Component Count for PV Applications. IEEE Transactions on Industrial Electronics, 2023, 70, 2662-2674.  | 5.2 | 19        |
| 61 | An Active-Neutral-Point-Clamped Switched-Capacitor Multilevel Inverter With Quasi-Resonant<br>Capacitor Charging. IEEE Transactions on Power Electronics, 2022, 37, 14888-14901.  | 5.4 | 19        |
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| 63 | An Improved PWM Technique to Achieve Continuous Input Current in Common-Ground<br>Transformerless Boost Inverter. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67,<br>3133-3136.                   | 2.2 | 18        |
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| 66 | Power Electronics Converters—An Overview. , 2018, , 3-29.   |     | 15        |
| 67 | Generalized Switch Current Stress Reduction Technique for Coupled-Inductor-Based Single-Switch<br>High Step-Up Boost Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics,<br>2021, 9, 1863-1875. | 3.7 | 15        |
| 68 | A Method of Seamless Transitions Between Different Operating Modes for Three-Port DC-DC<br>Converters. IEEE Access, 2021, 9, 59184-59195.   | 2.6 | 15        |
| 69 | A New Six-Level Transformer-Less Grid-Connected Solar Photovoltaic Inverter With Less Leakage<br>Current. IEEE Access, 2022, 10, 63736-63753.   | 2.6 | 15        |
| 70 | S4 grid-connected single-phase transformerless inverter for PV application. , 2016, , .   |     | 14        |
| 71 | Coupled-Inductor Bidirectional DC-DC Converter for EV Charging Applications with Wide Voltage<br>Conversion Ratio and Low Parts Count. , 2019, , .  |     | 14        |
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| 75 | Ultra-step-up DC-DC converter with integrated autotransformer and coupled inductor. , 2016, , .   |     | 11        |
| 76 | Common-mode voltage reduction techniques of three-phase Quasi Z-Source Inverter for AC drives. , 2013, , .  |     | 10        |
| 77 | Novel High Efficiency H-Bridge Transformerless Inverter for Grid-Connected Single-Phase<br>Photovoltaic Systems. , 2018, , .  |     | 10        |
| 78 | A New Unity-Gain 5-Level Active Neutral-Point-Clamped (UG-5L-ANPC) Inverter. , 2019, , .  |     | 10        |
| 79 | Synthesis and Analysis of Three-Port DC/DC Converters with Two Bidirectional Ports Based on Power Flow Graph Technique. Energies, 2021, 14, 5751.   | 1.6 | 10        |
| 80 | H-Bridge Zero-Voltage Switch-Controlled Rectifier Transformerless Midpoint-Clamped Inverter for<br>Photovoltaic Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8,<br>4382-4394. | 3.7 | 9         |
| 81 | A Common Ground-type Single-Phase Dual Mode Five-Level Switched-Capacitor Transformerless<br>Inverter. , 2020, , .  |     | 9         |
| 82 | A boost type switchedâ€capacitor multiâ€level inverter for renewable energy sources with Selfâ€Voltage<br>balancing of capacitors. International Journal of Energy Research, 2021, 45, 15217-15230.                     | 2.2 | 9         |
| 83 | Coupled Inductor Based Soft Switched High Gain Bidirectional DC-DC Converter With Reduced Input<br>Current Ripple. IEEE Transactions on Industrial Electronics, 2023, 70, 1431-1443.                                    | 5.2 | 9         |
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| 85 | Quasi Y-source boost DC-DC converter. , 2015, , .   |     | 8         |
| 86 | A Dual Mode 5-Level Inverter with Wide Input Voltage Range. , 2019, , .   |     | 8         |
| 87 | Topology, Modeling and Control Scheme for a new Seven-Level Inverter With Reduced DC-Link<br>Voltage. IEEE Transactions on Energy Conversion, 2021, 36, 2734-2746.  | 3.7 | 8         |
| 88 | A MOSFET SPICE Model With Integrated Electro-Thermal Averaged Modeling, Aging, and Lifetime<br>Estimation. IEEE Access, 2021, 9, 5545-5554.   | 2.6 | 8         |
| 89 | A novel commonâ€ground switchedâ€capacitor fiveâ€level inverter with adaptive hysteresis current<br>control for gridâ€connected applications. IET Power Electronics, 2021, 14, 2084-2098.                               | 1.5 | 8         |
| 90 | Y-source impedance-network-based isolated boost DC/DC converter. , 2014, , .  |     | 7         |

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| 94  | Modeling and Analysis of Thermal Resistances and Thermal Coupling Between Power Devices. IEEE<br>Transactions on Electron Devices, 2019, 66, 4302-4308.   | 1.6 | 6         |
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| 96  | Five-Level Grid-Tied Inverter Employing Switched-Capacitor Cell with Common-Grounded Feature. , 2020, , .   |     | 6         |
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| 98  | Active Utilization of a Full DC-Link Voltage in Multilevel Converter. , 2018, , .   |     | 5         |
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| 100 | A Novel Single-Phase Flying-Inductor Buck-Boost Inverter. , 2019, , .   |     | 5         |
| 101 | A Single-Source Single-Stage Switched-Boost Multilevel Inverter: Operation, Topological Extensions, and Experimental Validation. IEEE Transactions on Power Electronics, 2022, 37, 11258-11271. | 5.4 | 5         |
| 102 | A-source impedance network. , 2016, , .   |     | 4         |
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| 104 | A Classification of Single-Phase Transformerless Inverter Topologies for Photovoltaic Applications. ,<br>2018, , .  |     | 4         |
| 105 | Constant Common-Mode Voltage Transformerless Inverter for Grid-Tied Photovoltaic Application. , 2019, , .   |     | 4         |
| 106 | Improved Cascaded H-Bridge Multilevel Inverters with Voltage-Boosting Capability. Electronics (Switzerland), 2021, 10, 2801.  | 1.8 | 4         |
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| 109 | A high voltage gain quasi Z-source isolated DC/DC converter. , 2014, , .   |     | 3         |
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| 111 | A Fault-Tolerant Hybrid Cascaded H-Bridge Topology. , 2019, , .  |     | 3         |
| 112 | A Common-Ground-Type Single-Stage Buck-Boost Inverter with Sinusoidal Output Voltage. , 2021, , .  |     | 3         |
| 113 | Common-Ground Transformerless Inverter with Virtual DC Bus Concept for Single-Phase PV Systems.<br>IEEJ Journal of Industry Applications, 2020, 9, 538-548.  | 0.9 | 3         |
| 114 | A Novel DC/DC Three Port Converter with Fault-Tolerant Ability. , 2022, , .  |     | 3         |
| 115 | A Five-Level Unity-Gain Active Neutral-Point-Clamped Inverter Designed Using Half-Bridges. , 2022, , .   |     | 3         |
| 116 | A new singleâ€stage continuous input currentâ€based high gain boost inverter: Analysis and implementation. International Journal of Circuit Theory and Applications, 2021, 49, 1659-1677.          | 1.3 | 2         |
| 117 | Maximum Power per Ampere Modulation for Cascaded H-Bridge Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 264-275.  | 3.7 | 2         |
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| 119 | Switched-Boost Common-Ground Five-Level (SBCG5L) Grid-Connected Inverter With Single-Stage Dynamic Voltage Boosting Concept. , 2021, , .   |     | 2         |
| 120 | Timeâ€multiplexed hysteretic control for singleâ€inductor dualâ€input singleâ€output DCâ€DC power<br>converter. International Journal of Circuit Theory and Applications, 0, , .                   | 1.3 | 2         |
| 121 | New PWM Strategy to Enable Dual-Mode Operation Capability in Common-Grounded Transformerless<br>Inverters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 7361-7370. | 3.7 | 2         |
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| 126 | Model Predictive Control of Seven-Level Single-Phase Boost Inverter without weighting factor for<br>Grid-Tied Photovoltaic Applications. , 2020, , .   |     | 1         |

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| 128 | A Novel Single-Source Single-Stage Switched-Boost Five-Level (S5B5L) Inverter With Dynamic Voltage<br>Boosting Feature. , 2021, , .                                |     | 1         |
| 129 | Trans-inverse (Tx <sup>−1</sup> ) high step-up DC-DC converter. , 2015, , .  |     | 0         |
| 130 | Average Current-Mode Control of PWM A-Source Converter. , 2018, , .  |     | 0         |
| 131 | Indirect Model Predictive Control of a Three-Phase Grid-Connected Siwakoti-H Inverter. , 2019, , .   |     | 0         |
| 132 | A novel five-level switched capacitor type inverter topology for grid-tied photovoltaic application. , 2020, , .   |     | 0         |
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| 135 | Evaluation of Thermal Performance of Three-Phase Systems With Zero Sequence Injection. , 2021, , .   |     | 0         |
| 136 | A Dual-Buck-Boost DC–DC/AC Universal Converter. Electronics (Switzerland), 2022, 11, 1973.   | 1.8 | 0         |