

# Yam Prasad Siwakoti

## List of Publications by Citations

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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.

110  
papers

3,252  
citations

23  
h-index

55  
g-index

136  
ext. papers

4,934  
ext. citations

5.4  
avg, IF

6.2  
L-index

#	Paper	IF	Citations
110	Step-Up DCDC Converters: A Comprehensive Review of Voltage-Boosting Techniques, Topologies, and Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 9143-9178	7.2	696
109	. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 699-716	7.2	424
108	. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 1887-1906	7.2	237
107	. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 5967-5982	7.2	168
106	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 2100-2111	8.9	143
105	Y-Source Impedance Network. <i>IEEE Transactions on Power Electronics</i> , <b>2014</b> , 29, 3250-3254	7.2	118
104	Transformerless Inverter Topologies for Single-Phase Photovoltaic Systems: A Comparative Review. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2020</b> , 8, 805-835	5.6	99
103	. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 7419-7435	7.2	86
102	Y-Source Boost DC/DC Converter for Distributed Generation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 1059-1069	8.9	84
101	. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 8544-8558	7.2	81
100	. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 7564-7579	7.2	70
99	A Novel Seven-Level Active Neutral-Point-Clamped Converter With Reduced Active Switching Devices and DC-Link Voltage. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 10492-10508	7.2	58
98	Quasi-Y-Source Boost DCDC Converter. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 6514-6519	7.2	54
97	High-voltage boost quasi-Z-source isolated DC/DC converter. <i>IET Power Electronics</i> , <b>2014</b> , 7, 2387-2395	2.2	45
96	Effects of Leakage Inductances on Magnetically Coupled Y-Source Network. <i>IEEE Transactions on Power Electronics</i> , <b>2014</b> , 29, 5662-5666	7.2	40
95	A New Switched-Capacitor Five-Level Inverter Suitable for Transformerless Grid-Connected Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 8140-8153	7.2	36
94	A-Source Impedance Network. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 1-1	7.2	34

93	Six-Switch Step-Up Common-Grounded Five-Level Inverter With Switched-Capacitor Cell for Transformerless Grid-Tied PV Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 1374-1387	8.9	33
92	High Step-Up Trans-Inverse (Tx $\bar{1}$ ) DC/DC Converter for the Distributed Generation System. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 4278-4291	8.9	31
91	Switched Capacitor Integrated (2n + 1)-Level Step-Up Single-Phase Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 8248-8260	7.2	26
90	New Semiquadratic High Step-Up DC/DC Converter for Renewable Energy Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 433-446	7.2	26
89	A Fault-Tolerant Hybrid Cascaded H-Bridge Multilevel Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 12702-12715	7.2	25
88	A novel flying capacitor transformerless inverter for single-phase grid connected solar photovoltaic system <b>2016</b> ,		24
87	A new six-switch five-level boost-active neutral point clamped (5L-Boost-ANPC) inverter <b>2018</b> ,		23
86	Magnetically coupled high-gain Y-source isolated DC/DC converter. <i>IET Power Electronics</i> , <b>2014</b> , 7, 2817-2824		22
85	Analysis and Design of a Novel Six-Switch Five-Level Active Boost Neutral Point Clamped Inverter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 10485-10496	8.9	21
84	. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 7621-7641	7.2	20
83	Dual-T-Type Five-Level Cascaded Multilevel Inverter With Double Voltage Boosting Gain. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 9522-9529	7.2	19
82	Family of step-up DC/DC converters with fast dynamic response for low power applications. <i>IET Power Electronics</i> , <b>2016</b> , 9, 2665-2673	2.2	19
81	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2019</b> , 7, 1243-1257	5.6	18
80	Y-source impedance network <b>2014</b> ,		18
79	Design, Control, and Analysis of a Novel Grid-Interfaced Switched-Boost Dual T-Type Five-Level Inverter With Common-Ground Concept. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 8193-8206	8.9	17
78	A Novel Generalized Common-Ground Switched-Capacitor Multilevel Inverter Suitable for Transformerless Grid-Connected Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 10293-10306	7.2	16
77	H-Bridge transformerless inverter with common ground for single-phase solar-photovoltaic system <b>2017</b> ,		15
76	. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 7118-7131	7.2	15

75	Three-phase transformerless grid connected Quasi Z-Source Inverter for solar photovoltaic systems with minimal leakage current <b>2012</b> ,		14
74	. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2020</b> , 67, 2044-2048	3.5	14
73	A Common Grounded Type Dual-Mode Five-Level Transformerless Inverter for Photovoltaic Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 9742-9754	8.9	14
72	Y-source inverter <b>2014</b> ,		13
71	Design of FPGA-controlled power electronics and drives using MATLAB Simulink <b>2013</b> ,		13
70	A survey on voltage boosting techniques for step-up DC-DC converters <b>2016</b> ,		13
69	. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 10398-10402	7.2	12
68	Improved modulation Technique for voltage fed quasi-Z-source DC/DC converter <b>2014</b> ,		12
67	A Novel Single-Stage Five-Level Common-Ground-Boost-Type Active Neutral-Point-Clamped (5L-CGBT-ANPC) Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 6192-6196	7.2	11
66	A New High-Gain, High-Efficiency SEPIC-Based DCDC Converter for Renewable Energy Applications. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , <b>2021</b> , 2, 567-578	2.6	11
65	A Switched-Capacitors-Based 13-Level Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 37, 644-658	7.2	11
64	Switched-capacitor multilevel inverter with self-voltage-balancing for high-frequency power distribution system. <i>IET Power Electronics</i> , <b>2020</b> , 13, 1807-1818	2.2	10
63	A Modified Y-Source DCDC Converter With High Voltage-Gains and Low Switch Stresses. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 7716-7720	7.2	10
62	A Novel Full Soft-Switching High-Gain DC/DC Converter Based on Three-Winding Coupled-Inductor. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 12656-12669	7.2	10
61	An Improved PWM Technique to Achieve Continuous Input Current in Common-Ground Transformerless Boost Inverter. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2020</b> , 67, 3133-3136	3.5	8
60	S4 grid-connected single-phase transformerless inverter for PV application <b>2016</b> ,		8
59	A Novel Boost Cascaded Multilevel Inverter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 8072-8080	8.9	8
58	A Disturbance Rejection-Based Control Strategy for Five-Level T-Type Hybrid Power Converters With Ripple Voltage Estimation Capability. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 7364-7374	8.9	7

57	Common-mode voltage reduction techniques of three-phase Quasi Z-Source Inverter for AC drives <b>2013,</b>		7
56	A Single-Stage Multi-Port Buck-Boost Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 7769-7782		7
55	Ultra-step-up DC-DC converter with integrated autotransformer and coupled inductor <b>2016,</b>		7
54	Generalized Switch Current Stress Reduction Technique for Coupled-Inductor-Based Single-Switch High Step-Up Boost Converter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 1863-1875	5.6	7
53	A Novel Common-Ground-Type Nine-Level Dynamic Boost Inverter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1	5.6	7
52	A Novel Dual-Mode Switched-Capacitor Five-Level Inverter With Common-Ground Transformerless Concept. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 13740-13753	7.2	7
51	Switched-Capacitor-Based Five-Level T-Type Inverter (SC-5TI) With Soft-Charging and Enhanced DC-Link Voltage Utilization. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 13958-13967	7.2	7
50	Modeling and Analysis of Thermal Resistances and Thermal Coupling Between Power Devices. <i>IEEE Transactions on Electron Devices</i> , <b>2019</b> , 66, 4302-4308	2.9	6
49	Power Electronics Converters An Overview <b>2018</b> , 3-29		6
48	Performance of distributed DC power system using quasi Z-Source Inverter based DC/DC converters <b>2013,</b>		6
47	Quasi-Y-source inverter <b>2015,</b>		6
46	Y-source impedance-network-based isolated boost DC/DC converter <b>2014,</b>		6
45	Implementation and Analysis of A Novel Switched-Boost Common-Ground Five-Level Inverter Modulated With Model Predictive Control Strategy. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1	5.6	6
44	A Novel Single-Phase Flying-Inductor Buck-Boost Inverter <b>2019,</b>		5
43	A Method of Seamless Transitions Between Different Operating Modes for Three-Port DC-DC Converters. <i>IEEE Access</i> , <b>2021</b> , 9, 59184-59195	3.5	5
42	A New Seven-Level Active Boost Neutral Point Clamped (7L-ABNPC) Inverter <b>2018,</b>		5
41	Quasi Y-source boost DC-DC converter <b>2015,</b>		4
40	Nine-Level Nine-Switch Common-Ground Switched-Capacitor Inverter Suitable for High-Frequency AC-Microgrid Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 1-1	7.2	4

39	A New Unity-Gain 5-Level Active Neutral-Point-Clamped (UG-5L-ANPC) Inverter <b>2019</b> ,		4
38	H-Bridge Zero-Voltage Switch-Controlled Rectifier Transformerless Midpoint-Clamped Inverter for Photovoltaic Applications. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2020</b> , 8, 4382-4394	5.6	4
37	Five-Level Grid-Tied Inverter Employing Switched-Capacitor Cell with Common-Grounded Feature <b>2020</b> ,		3
36	A Common Ground-type Single-Phase Dual Mode Five-Level Switched-Capacitor Transformerless Inverter <b>2020</b> ,		3
35	Effects of leakage inductances on magnetically-coupled impedance-source networks <b>2014</b> ,		3
34	Generalized diamond-type single DC-source switched-capacitor based multilevel inverter with step-up and natural voltage balancing capabilities. <i>IET Power Electronics</i> , <b>2021</b> , 14, 1208-1218	2.2	3
33	A-source impedance network <b>2016</b> ,		3
32	Topology, Modeling and Control Scheme for a New Seven-level Inverter with Reduced DC-Link Voltage. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 1-1	5.4	3
31	Single-Phase Switched-Capacitor Integrated-Boost Five-level Inverter <b>2018</b> ,		3
30	Switched-Capacitor Multilevel Inverters: A Comprehensive Review. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 1-1	7.2	3
29	A New High Efficiency High Step-Up DC/DC Converter for Renewable Energy Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2022</b> , 1-1	8.9	3
28	A novel quasi-SEPIC high-voltage boost DC-DC converter <b>2017</b> ,		2
27	Dual polarity DCDC converter integrated grid-tied single-phase transformer less inverter for solar application. <i>Journal of Engineering</i> , <b>2019</b> , 2019, 3962-3966	0.7	2
26	Multi-Variable Thermal Modeling of Power Devices Considering Mutual Coupling. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 3240	2.6	2
25	A Non-Isolated Three-Port DC/DC Converter with Two Bidirectional Ports and Fewer Components. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 1-1	7.2	2
24	Improved Cascaded H-Bridge Multilevel Inverters with Voltage-Boosting Capability. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 2801	2.6	2
23	A boost type switched-capacitor multi-level inverter for renewable energy sources with Self-Voltage balancing of capacitors. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 15217-15230	4.5	2
22	A novel common-ground switched-capacitor five-level inverter with adaptive hysteresis current control for grid-connected applications. <i>IET Power Electronics</i> , <b>2021</b> , 14, 2084-2098	2.2	2

21	A Dual Mode 5-Level Inverter with Wide Input Voltage Range <b>2019</b> ,		2
20	Active Gate Drive to Increase the Power Capacity of Hard-Switched IGBTs. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 2247-2257	5.6	2
19	A MOSFET SPICE Model With Integrated Electro-Thermal Averaged Modeling, Aging, and Lifetime Estimation. <i>IEEE Access</i> , <b>2021</b> , 9, 5545-5554	3.5	2
18	Novel High Efficiency H-Bridge Transformerless Inverter for Grid-Connected Single-Phase Photovoltaic Systems <b>2018</b> ,		2
17	Active Utilization of a Full DC-Link Voltage in Multilevel Converter <b>2018</b> ,		2
16	A Single-Phase Common-Ground Five-Level Transformerless Inverter with Low Component Count for PV Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2022</b> , 1-1	8.9	2
15	Benefits of the CI-CCS converter. <i>Journal of Engineering</i> , <b>2019</b> , 2019, 4527-4531	0.7	1
14	A high voltage gain quasi Z-source isolated DC/DC converter <b>2014</b> ,		1
13	Switched-Boost Common-Ground Five-Level (SBCG5L) Grid-Connected Inverter With Single-Stage Dynamic Voltage Boosting Concept <b>2021</b> ,		1
12	A Fault-Tolerant Hybrid Cascaded H-Bridge Topology <b>2019</b> ,		1
11	Full Soft-Switching Ultra-High Gain DC/DC Converter Using Three-Winding Coupled-Inductor <b>2021</b> ,		1
10	A Classification of Single-Phase Transformerless Inverter Topologies for Photovoltaic Applications <b>2018</b> ,		1
9	Synthesis and Analysis of Three-Port DC/DC Converters with Two Bidirectional Ports Based on Power Flow Graph Technique. <i>Energies</i> , <b>2021</b> , 14, 5751	3.1	1
8	Common-Ground Transformerless Inverter with Virtual DC Bus Concept for Single-Phase PV Systems. <i>IEEJ Journal of Industry Applications</i> , <b>2020</b> , 9, 538-548	0.7	0
7	A transformerless three-level three-phase boost PWM inverter for PV applications. <i>IET Power Electronics</i> , <b>2021</b> , 14, 1768-1778	2.2	0
6	Maximum Power Per Ampere modulation for Cascaded H-Bridge Converters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1	5.6	0
5	Coupled Inductor Based Soft Switched High Gain Bidirectional DC-DC Converter with Reduced Input Current Ripple. <i>IEEE Transactions on Industrial Electronics</i> , <b>2022</b> , 1-1	8.9	0
4	High Step-Up SEPIC-Based Trans-Inverse DC-DC Converter with Quasi-Resonance Operation for Renewable Energy Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2022</b> , 1-1	8.9	0

- 3 Overview of Recent Advanced Topologies for Transformerless Dual-Grounded Inverters. *IEEE Transactions on Power Electronics*, **2022**, 1-1 7.2 0
- 2 A new single-stage continuous input current-based high gain boost inverter: Analysis and implementation. *International Journal of Circuit Theory and Applications*, **2021**, 49, 1659-1677 2
- 1 A Single-Source Single-Stage Switched-Boost Multilevel Inverter: Operation, Topological Extensions, and Experimental Validation. *IEEE Transactions on Power Electronics*, **2022**, 1-1 7.2