

Adil Sarwar

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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.

91
papers

668
citations

12
h-index

22
g-index

109
ext. papers

1,240
ext. citations

2.4
avg, IF

4.91
L-index

#	Paper	IF	Citations
91	A New Multilevel Inverter Topology With Reduce Switch Count. <i>IEEE Access</i> , 2019 , 7, 58584-58594	3.5	82
90	Low Switching Frequency Based Asymmetrical Multilevel Inverter Topology With Reduced Switch Count. <i>IEEE Access</i> , 2019 , 7, 86374-86383	3.5	72
89	A Comprehensive review on electric vehicles charging infrastructures and their impacts on power-quality of the utility grid. <i>ETransportation</i> , 2019 , 1, 100006	12.7	67
88	Dual asymmetrical dc voltage source based switched capacitor boost multilevel inverter topology. <i>IET Power Electronics</i> , 2020 , 13, 1481-1486	2.2	23
87	A new single-phase cascaded multilevel inverter topology with reduced number of switches and voltage stress. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 30, e12191	2.2	21
86	Most Valuable Player Algorithm based Maximum Power Point Tracking for a Partially Shaded PV Generation System. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 12, 1876-1890	8.2	18
85	Measurement of Speed and Calibration of Tachometers Using Rotating Magnetic Field. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014 , 63, 848-858	5.2	16
84	A Novel Switched-Capacitor Multilevel Inverter Topology for Energy Storage and Smart Grid Applications. <i>Electronics (Switzerland)</i> , 2020 , 9, 1703	2.6	13
83	A New Transformerless Quadratic Boost Converter with High Voltage Gain. <i>Smart Science</i> , 2020 , 8, 163-183		13
82	Performance Analysis and Hardware-in-the-Loop (HIL) Validation of Single Switch High Voltage Gain DC-DC Converters for MPP Tracking in Solar PV System. <i>IEEE Access</i> , 2021 , 9, 48811-48830	3.5	13
81	A Non-Inverting High Gain DC-DC Converter With Continuous Input Current. <i>IEEE Access</i> , 2021 , 9, 54710-54721	3.5	13
80	Simulation and Analysis of a Multilevel Converter Topology for Solar PV Based Grid Connected Inverter. <i>Smart Grid and Renewable Energy</i> , 2011 , 02, 56-62	0.4	12
79	An improved asymmetrical multilevel inverter topology with reduced semiconductor device count. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 30, e12587	2.2	12
78	A New High-Gain DC-DC Converter with Continuous Input Current for DC Microgrid Applications. <i>Energies</i> , 2021 , 14, 2629	3.1	12
77	Recent trends and review on switched-capacitor-based single-stage boost multilevel inverter. <i>International Transactions on Electrical Energy Systems</i> , 2021 , 31, e12730	2.2	12
76	Performance Based Analysis of Solar PV Emulators: A Review 2018 ,		12
75	Multilevel converter topology for solar PV based grid-tie inverters 2010 ,		10

74	A transformerless high gain dc/dc boost converter with reduced voltage stress. <i>International Transactions on Electrical Energy Systems</i> , 2021 , 31, e12877	2.2	9
73	Performance of PSO Based Variants in Tracking Optimal Power in a Solar PV based Generation System under Partial Shading Condition. <i>Smart Science</i> , 2020 , 8, 1-13	1.5	8
72	Rapid and Robust Adaptive Jaya (Ajaya) Based Maximum Power Point Tracking of a PV-Based Generation System. <i>IEEE Access</i> , 2021 , 9, 48679-48703	3.5	8
71	A New Transformerless Ultra High Gain DC/DC Converter for DC Microgrid Application. <i>IEEE Access</i> , 2021 , 9, 124560-124582	3.5	8
70	Five parameter modelling and simulation of solar PV cell 2015 ,		7
69	Realization of a Generalized Switched-Capacitor Multilevel Inverter Topology with Less Switch Requirement. <i>Energies</i> , 2020 , 13, 1556	3.1	7
68	Performance analysis of carrier based PWM technique for three level diode clamped multilevel inverter with different reference signals 2016 ,		7
67	Single phase symmetrical and asymmetrical design of multilevel inverter topology with reduced number of switches 2018 ,		7
66	A Family of Transformerless Quadratic Boost High Gain DC-DC Converters. <i>Energies</i> , 2021 , 14, 4372	3.1	7
65	Hardware-in-the-Loop Implementation of Projectile Target Search Algorithm for Selective Harmonic Elimination in a 3-Phase Multilevel Converter. <i>IEEE Access</i> , 2021 , 9, 30626-30635	3.5	7
64	M-Type and CD-Type Carrier Based PWM Methods and Bat Algorithm-Based SHE and SHM for Compact Nine-Level Switched Capacitor Inverter. <i>IEEE Access</i> , 2021 , 9, 87731-87748	3.5	7
63	Generalized state-space model for an n-phase interleaved buck-boost converter 2017 ,		6
62	A New High Voltage Gain DC to DC Converter with Low Voltage Stress for Energy Storage System Application. <i>Electronics (Switzerland)</i> , 2020 , 9, 2067	2.6	6
61	Gravitational Search Algorithm (GSA) based Maximum Power Point Tracking in a Solar PV based Generation System 2019 ,		6
60	A Hybrid Nearest Level Combined With PWM Control Strategy: Analysis and Implementation on Cascaded H-Bridge Multilevel Inverter and its Fault Tolerant Topology. <i>IEEE Access</i> , 2021 , 9, 44266-44282	3.5	6
59	Implementation and Analysis of a 15-Level Inverter Topology With Reduced Switch Count. <i>IEEE Access</i> , 2021 , 9, 40623-40634	3.5	6
58	Asymmetrical Multilevel Inverter Topology with Reduced Number of Components 2018 ,		6
57	Maximum Power Point Tracking Techniques under Partial Shading Condition- A Review 2018 ,		6

56	Integration of Electric Vehicles and Energy Storage System in Home Energy Management System with Home to Grid Capability. <i>Energies</i> , 2021 , 14, 8557	3.1	6
55	A Nine-Level Cascaded Multilevel Inverter with Reduced Switch Count and Lower Harmonics. <i>Lecture Notes in Electrical Engineering</i> , 2019 , 723-738	0.2	5
54	Parameter Extraction of a Solar PV Cell Using Projectile Search Algorithm 2020 ,		5
53	A Cross Connected Asymmetrical Switched-Capacitor Multilevel Inverter. <i>IEEE Access</i> , 2021 , 9, 96416-96429	3.9	5
52	Asymmetric Multilevel Inverter Topology and Its Fault Management Strategy for High-Reliability Applications. <i>Energies</i> , 2021 , 14, 4302	3.1	5
51	A Single Source Switched-Capacitor 13-Level Inverter with Triple Voltage Boosting and Reduced Component Count. <i>Electronics (Switzerland)</i> , 2021 , 10, 2321	2.6	5
50	Crystal Structure Algorithm (CryStAl) Based Selective Harmonic Elimination Modulation in a Cascaded H-Bridge Multilevel Inverter. <i>Electronics (Switzerland)</i> , 2021 , 10, 3070	2.6	4
49	A Transformerless Quadratic Boost High Gain DC-DC Converter 2020 ,		4
48	Meta-Heuristic Optimization Techniques Used for Maximum Power Point Tracking in Solar PV System. <i>Electronics (Switzerland)</i> , 2021 , 10, 2419	2.6	4
47	A Voltage Multiplier Circuit Based Quadratic Boost Converter for Energy Storage Application. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8254	2.6	4
46	Generalized Structures for Switched-Capacitor Multilevel Inverter Topology for Energy Storage System Application. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1319	2.6	4
45	Experimental Validation of Metaheuristic and Conventional Modulation, and Hysteresis Control of the Dual Boost Nine-Level Inverter. <i>Electronics (Switzerland)</i> , 2021 , 10, 207	2.6	4
44	Archimedes Optimization Algorithm Based Selective Harmonic Elimination in a Cascaded H-Bridge Multilevel Inverter. <i>Sustainability</i> , 2022 , 14, 310	3.6	4
43	A novel constraint-based genetic algorithm solution for SHE technique in modified PUC-5 inverter. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2020 , 15, 159-160	1	3
42	A twice boost nine-level switched-capacitor multilevel (2B-9L-SCMLI) inverter with self-voltage balancing capability. <i>International Journal of Circuit Theory and Applications</i> , 2021 , 49, 2578	2	3
41	Submodule Capacitor voltage balancing of Modular Multilevel Converter 2019 ,		3
40	Design and Analysis of Packed U-Cell and SEPIC Converter Based Solar PV System for Grid Connection 2018 ,		3
39	Reliability Analysis and Fault-Tolerant Operation in a Multilevel Inverter for Industrial Application. <i>Electronics (Switzerland)</i> , 2022 , 11, 98	2.6	3

38	A Dual Source Switched-Capacitor Multilevel Inverter with Reduced Device Count. <i>Electronics (Switzerland)</i> , 2022 , 11, 67	2.6	3
37	Optimal Placement of Reclosers in a Radial Distribution System for Reliability Improvement. <i>Electronics (Switzerland)</i> , 2021 , 10, 3182	2.6	3
36	Aquila Optimization Based Harmonic Elimination in a Modified H-Bridge Inverter. <i>Sustainability</i> , 2022 , 14, 929	3.6	2
35	A 13, 11 and 9-Level Boosted Operation of a Single-Source Asymmetrical Inverter with Hybrid PWM Scheme. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	2
34	Jellyfish Search Optimization Algorithm for MPP Tracking of PV System. <i>Sustainability</i> , 2021 , 13, 11736	3.6	2
33	A switched-capacitor multilevel inverter topology employing a novel variable structure nearest-level modulation. <i>International Transactions on Electrical Energy Systems</i> , e13151	2.2	2
32	An MPPT method using hybrid radial movement optimization with teaching-learning based optimization under fluctuating atmospheric conditions. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021 , 1-10	1.6	2
31	Analysis and implementation of a new asymmetric double H-bridge multilevel inverter. <i>International Journal of Circuit Theory and Applications</i> ,	2	2
30	A Modified Asymmetric Switched-Capacitor Multilevel Inverter Topology with voltage boosting Capability 2019 ,		2
29	A Maximum Power Point Tracking Method Using a Hybrid PSO and Grey Wolf Optimization Algorithm 2019 ,		2
28	Chaos Induced Coyote Algorithm (CICA) for Extracting the Parameters in a Single, Double, and Three Diode Model of a Mono-Crystalline, Polycrystalline, and a Thin-Film Solar PV Cell. <i>Electronics (Switzerland)</i> , 2021 , 10, 2094	2.6	2
27	A high gain noninverting DCDC converter with low voltage stress for industrial applications. <i>International Journal of Circuit Theory and Applications</i> ,	2	2
26	An Eleven-Level Switched-Capacitor Inverter with Boosting Capability. <i>Electronics (Switzerland)</i> , 2021 , 10, 2262	2.6	2
25	Artificial Jellyfish Search Algorithm-Based Selective Harmonic Elimination in a Cascaded H-Bridge Multilevel Inverter. <i>Electronics (Switzerland)</i> , 2021 , 10, 2402	2.6	2
24	Implementation of a Novel Variable Structure Nearest Level Modulation on Cascaded H-Bridge Multilevel Inverter. <i>IEEE Access</i> , 2021 , 1-1	3.5	2
23	Mathematical Analysis of Various Modulation Strategies Used for Multilevel Inverter. <i>Lecture Notes in Electrical Engineering</i> , 2019 , 479-490	0.2	1
22	Self-Balanced Twenty Five Level Switched Capacitor Multilevel Inverter With Reduced Switch Count and Voltage Boosting Capability. <i>IEEE Transactions on Industry Applications</i> , 2022 , 58, 2183-2194	4.3	1
21	Maximum Power Point Tracking of a Partially Shaded Solar PV Generation System Using Coyote Optimization Algorithm (COA). <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 509-518	0.4	1

20	Control Techniques of Packed U-Cell Multilevel Inverter: A Comprehensive Review. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 442-452	0.4	1
19	Comprehensive Analysis of Different Modulation Techniques on a Multi-level Neutral Point Clamped Inverter in a Solar PV System. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 434-441	0.4	1
18	Design and Validation of a Reduced Switching Components Step-Up Multilevel Inverter (RSCS-MLI). <i>Processes</i> , 2021 , 9, 1948	2.9	1
17	Seven-Level Switched-Capacitor Based Multilevel Inverter With Lesser Number of Power Electronic Components and Reduced Voltage Stress 2020 ,		1
16	Review of Thyristor Based Grid Tied Inverters for Solar PV Applications 2019 ,		1
15	Genetic Algorithm based Optimal Operation of a Modified H-bridge single phase Multilevel Inverter 2019 ,		1
14	High Gain DC-DC Converter for Modular Multilevel Converter Applications. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 605-614	0.2	1
13	Level Shifted Carrier-Based Pulse Width Modulation for Modular Multilevel Converter. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 639-646	0.2	1
12	A General Review of the Recently Proposed Asymmetrical Multilevel Inverter Topologies. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 675-686	0.2	1
11	Open-Circuit Fault Detection in a Multilevel Inverter Using Sub-Band Wavelet Energy. <i>Electronics (Switzerland)</i> , 2022 , 11, 123	2.6	1
10	A Robust Multilevel Inverter Topology for Operation under Fault Conditions. <i>Electronics (Switzerland)</i> , 2021 , 10, 3099	2.6	1
9	A Non-Pulsating Input Current Step-Up DC/DC Converter With Common Ground Structure for Photovoltaic Applications. <i>IEEE Access</i> , 2021 , 9, 159432-159446	3.5	0
8	An Improved 15-Level Asymmetrical Multilevel Inverter with Reduced Switch Count. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 709-718	0.2	0
7	A Symbiotic Organism Search-Based Selective Harmonic Elimination in a Switched Capacitor Multilevel Inverter. <i>Energies</i> , 2022 , 15, 89	3.1	0
6	Maximum power point tracking in a solar PV system: Current trends towards nature-inspired optimization techniques. <i>International Transactions on Electrical Energy Systems</i> , e13197	2.2	
5	An Improved Maximum Power Point Tracking (MPPT) of a Partially Shaded Solar PV System Using PSO with Constriction Factor (PSO-CF). <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 499-507	0.4	
4	A Resilient Hybrid Output Converter with Inherent Cross-Regulation Avoidance Feature. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 263-273	0.2	
3	Parameter Extraction of PV Cell: A Review. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 1-11	0.2	

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| 2 | Realization of a Flyback DCDC Converter for Experimentation-Assisted Teaching in Power Electronics. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 387-396 | 0.2 |
| 1 | Simulation and Analysis of Rectifier-Based Four-Level Grid-Connected Inverter Using Genetic Algorithm. <i>Studies in Big Data</i> , 2021 , 329-338 | 0.9 |