

Hossein Iman-Eini

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109
papers

1,955
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23
h-index

39
g-index

129
ext. papers

2,489
ext. citations

5
avg, IF

5.69
L-index

#	Paper	IF	Citations
109	. <i>IEEE Transactions on Power Electronics</i> , 2008 , 23, 2428-2442	7.2	123
108	Stationary super-capacitor energy storage system to save regenerative braking energy in a metro line. <i>Energy Conversion and Management</i> , 2012 , 56, 206-214	10.6	91
107	A new maximum power point tracking strategy for PV arrays under uniform and non-uniform insolation conditions. <i>Solar Energy</i> , 2013 , 91, 221-232	6.8	81
106	A voltage balancing strategy with extended operating region for cascaded H-bridge converters. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 5044-5053	7.2	80
105	Modified space vector modulation for fault-tolerant operation of multilevel cascaded H-bridge inverters. <i>IET Power Electronics</i> , 2013 , 6, 742-751	2.2	77
104	Global Maximum Power Point Tracking Method for Photovoltaic Arrays Under Partial Shading Conditions. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 2855-2864	8.9	70
103	Fault-Tolerant Operation of Three-Phase Cascaded H-Bridge Converters Using an Auxiliary Module. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 1018-1027	8.9	69
102	A New Interleaved Coupled-Inductor Nonisolated Soft-Switching Bidirectional DCDC Converter With High Voltage Gain Ratio. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 5529-5538	8.9	61
101	Selective harmonic mitigation-pulse-width modulation technique with variable DC-link voltages in single and three-phase cascaded H-bridge inverters. <i>IET Power Electronics</i> , 2014 , 7, 924-932	2.2	56
100	An optimal selective harmonic mitigation technique for high power converters. <i>International Journal of Electrical Power and Energy Systems</i> , 2013 , 49, 34-39	5.1	53
99	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2756-2765	8.9	52
98	MPPT Method for PV Systems Under Partially Shaded Conditions by Approximating I_{pv} Curve. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 3966-3975	8.9	49
97	. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 6436-6445	8.9	47
96	Hybrid Modulation Technique for Grid-Connected Cascaded Photovoltaic Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 7843-7853	8.9	43
95	Selective Harmonic Elimination Technique With Control of Capacitive DC-Link Voltages in an Asymmetric Cascaded H-Bridge Inverter for STATCOM Application. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 8788-8796	8.9	40
94	Improving the Performance of a Cascaded H-Bridge-Based Interline Dynamic Voltage Restorer. <i>IEEE Transactions on Power Delivery</i> , 2016 , 31, 1160-1167	4.3	39
93	DC link voltage balancing approach for cascaded H-bridge active rectifier based on selective harmonic elimination-pulse width modulation. <i>IET Power Electronics</i> , 2015 , 8, 583-590	2.2	38

92	Optimal selective harmonic elimination for cascaded H-bridge-based multilevel rectifiers. <i>IET Power Electronics</i> , 2014 , 7, 350-356	2.2	38
91	A modular power electronic transformer based on a cascaded H-bridge multilevel converter. <i>Electric Power Systems Research</i> , 2009 , 79, 1625-1637	3.5	36
90	Improved Phasor Estimation Method for Dynamic Voltage Restorer Applications. <i>IEEE Transactions on Power Delivery</i> , 2015 , 30, 1467-1477	4.3	31
89	State feedback control strategy and voltage balancing scheme for a transformer-less STATic synchronous COMPensator based on cascaded H-bridge converter. <i>IET Power Electronics</i> , 2015 , 8, 906-917 ²	2.2	29
88	Dynamic voltage restorer employing multilevel cascaded H-bridge inverter. <i>IET Power Electronics</i> , 2016 , 9, 2196-2204	2.2	29
87	Control scheme for cascaded H-bridge converter-based distribution network static compensator. <i>IET Power Electronics</i> , 2014 , 7, 2837-2845	2.2	25
86	Improved control algorithm for grid-connected cascaded H-bridge photovoltaic inverters under asymmetric operating conditions. <i>IET Power Electronics</i> , 2018 , 11, 407-415	2.2	23
85	A Fault-Tolerant Control Strategy for Cascaded H-Bridge Multilevel Rectifiers. <i>Journal of Power Electronics</i> , 2010 , 10, 34-42	0.9	23
84	Improved Fault-Tolerant Method for Modular Multilevel Converters by Combined DC and Neutral-Shift Strategy. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2454-2462	8.9	23
83	An efficient online time-temperature-dependent creep-fatigue rainflow counting algorithm. <i>International Journal of Fatigue</i> , 2018 , 116, 284-292	5	23
82	Grid-Connected Photovoltaic System Based on a Cascaded H-Bridge Inverter. <i>Journal of Power Electronics</i> , 2012 , 12, 578-586	0.9	22
81	Improving the Reactive Current Compensation Capability of Cascaded H-Bridge Based STATCOM Under Unbalanced Grid Voltage. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1466-1476	5.6	22
80	A new switching strategy for transformer-less back-to-back cascaded H-bridge multilevel converter. <i>IET Power Electronics</i> , 2014 , 7, 1868-1877	2.2	21
79	Molecular analysis of typical and atypical enteropathogenic Escherichia coli (EPEC) isolated from children with diarrhoea. <i>Journal of Medical Microbiology</i> , 2013 , 62, 191-195	3.2	21
78	Stable operation of grid connected Cascaded H-Bridge inverter under unbalanced insolation conditions 2013 ,		20
77	Selective Harmonic Elimination in Asymmetric Cascaded Multilevel Inverters Using a New Low-frequency Strategy for Photovoltaic Applications. <i>Electric Power Components and Systems</i> , 2015 , 43, 964-969	1	17
76	A minimum loss switching method using space vector modulation for cascaded H-bridge multilevel inverter 2012 ,		17
75	Molecular analysis and antimicrobial susceptibility of methicillin resistant Staphylococcus aureus in one of the hospitals of Tehran University of Medical Sciences: high prevalence of sequence type 239 (ST239) clone. <i>Acta Microbiologica Et Immunologica Hungarica</i> , 2011 , 58, 31-9	1.8	17

74	Sliding mode control of DFIG powers in the case of unknown flux and rotor currents with reduced switching frequency. <i>International Journal of Electrical Power and Energy Systems</i> , 2018 , 96, 347-356	5.1	17
73	DC Fault Current Blocking With the Coordination of Half-Bridge MMC and the Hybrid DC Breaker. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 5503-5514	8.9	16
72	Dual-output DC/DC boost converter for bipolar DC microgrids. <i>IET Renewable Power Generation</i> , 2019 , 13, 1402-1410	2.9	15
71	Effects of Creep Failure Mechanisms on Thermomechanical Reliability of Solder Joints in Power Semiconductors. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 8956-8964	7.2	15
70	Reactive power sharing improvement of droop-controlled DFIG wind turbines in a microgrid. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 842-849	2.5	15
69	Modified step-up boost converter with coupled-inductor and super-lift techniques. <i>IET Power Electronics</i> , 2015 , 8, 898-905	2.2	14
68	A Gate Driver Circuit for Series-Connected IGBTs Based on Quasi-Active Gate Control. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 791-799	5.6	14
67	Modulation technique for Four-Leg Voltage Source Inverter without a Look-Up Table. <i>IET Power Electronics</i> , 2016 , 9, 648-656	2.2	14
66	Evaluation of loss effect on optimum operation of variable speed micro-hydropower energy conversion systems. <i>Renewable Energy</i> , 2019 , 131, 1022-1034	8.1	14
65	Enhancing the reliability of single-phase CHB-based grid-connected photovoltaic energy systems 2011 ,		14
64	Reliability Assessment of Multistate Degraded Systems: An Application to Power Electronic Systems. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 4024-4032	7.2	14
63	A Redundancy-based scheme for balancing DC-link voltages in cascaded H-bridge rectifiers. <i>IET Power Electronics</i> , 2013 , 6, 235-243	2.2	13
62	Investigation of a cascaded H-bridge photovoltaic inverter under non-uniform insolation conditions by hardware-in-the-loop test. <i>International Journal of Electrical Power and Energy Systems</i> , 2019 , 105, 330-340	5.1	13
61	An Impedance-Power Droop Method for Accurate Power Sharing in Islanded Resistive Microgrids. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 3763-3771	5.6	12
60	A Novel Extended Impedance-Power Droop for Accurate Active and Reactive Power Sharing in a Multi-Bus Microgrid With Complex Impedances. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 3795-3804	10.7	11
59	A New High-Switching-Frequency Modulation Technique to Improve the DC-Link Voltage Utilization in Multilevel Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 1807-1817	8.9	10
58	Optimal stationary super-capacitor energy storage system in a metro line 2011 ,		10
57	Extending the operating range of cascaded H-bridge based multilevel rectifier under unbalanced load conditions 2010 ,		10

56	Multiple-Locus Variable Number of Tandem Repeats Fingerprinting (MLVF) and Virulence Factor Analysis of Methicillin Resistant Staphylococcus aureus SCCmec type III. <i>Polish Journal of Microbiology</i> , 2011 , 60, 303-307	1.8	10
55	A novel PSO (Particle Swarm Optimization)-based approach for optimal schedule of refrigerators using experimental models. <i>Energy</i> , 2016 , 107, 707-715	7.9	10
54	Non-equal DC link Voltages in a Cascaded H-Bridge with a Selective Harmonic Mitigation-PWM Technique Based on the Fundamental Switching Frequency. <i>Journal of Power Electronics</i> , 2017 , 17, 106-114	9.9	9
53	Analysis, Design, and Implementation of DC/DC IBBC-DAHB Converter With Voltage Matching to Improve Efficiency. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5209-5219	8.9	9
52	ZCS-PWM interleaved boost converter using resonance-clamp auxiliary circuit. <i>IET Power Electronics</i> , 2017 , 10, 405-412	2.2	8
51	Reliable simple method for suppression of leakage current in grid-connected CHB inverters. <i>IET Power Electronics</i> , 2018 , 11, 2170-2177	2.2	8
50	An LCL-based interface connecting photovoltaic back-up inverter to load and grid 2013 ,		7
49	Improved post-fault operation strategy for a cascaded H-bridge based STATCOM. <i>IET Power Electronics</i> , 2020 , 13, 2413-2423	2.2	7
48	A Reliable Three-Phase Transformerless Grid-Connected PV Inverter With Inductive DC Link. <i>IEEE Journal of Photovoltaics</i> , 2018 , 8, 1305-1312	3.7	7
47	Fault-Tolerant Method to Reduce Voltage Stress of Submodules in Postfault Condition for Regenerative MMC-Based Drive. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 4718-4726	8.9	6
46	Fast Artificial Neural Network based Method for Estimation of the Global Maximum Power Point in Photovoltaic Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	6
45	Cascaded H-bridge Based STATCOM with Improved Ride Through Capability of Submodule Failures. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	6
44	Reciprocal and Self-Aging Effects of Power Components on Reliability of DC/DC Boost Converter With Coupled and Decoupled Thermal Structures. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2019 , 9, 2506-2513	1.7	5
43	Adaptive Sensorless SM-DPC of DFIG-Based WECS Under Disturbed Grid: Study and Experimental Results. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 570-581	8.2	5
42	Developed MPPT Algorithm for Photovoltaic Systems without a Voltage Sensor. <i>Journal of Power Electronics</i> , 2013 , 13, 1042-1050	0.9	5
41	Phenotypic and genotypic evaluation of fluoroquinolone resistance in clinical isolates of Staphylococcus aureus in Tehran. <i>Medical Science Monitor</i> , 2011 , 17, PH71-4	3.2	5
40	A new strategy for control of cascaded H-bridge rectifiers with unequal loads 2011 ,		5
39	Efficient real-time estimation for DFIG performance and reliability enhancement of grid/micro-grid connected energy conversion systems. <i>Journal of Renewable and Sustainable Energy</i> , 2019 , 11, 025503	2.5	4

38	Using auxiliary signals as a simple method for balancing DC bus voltages in cascaded H- bridge converters 2015 ,		4
37	Utilization of Soft-Switched Boost Converter for MPPT Application in Photovoltaic Single-Phase Grid-Connected Inverter 2020 ,		4
36	A Robust LESO-based DC-Link Voltage Controller for Variable Speed Hydro-Electric Plants 2019 ,		4
35	Open-circuit fault detection and localization in Modular Multilevel Converter 2015 ,		4
34	Design and Implementation of Ozone Production Power Supply for the Application of Microbial Purification of Water. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 8215-8223	7.2	4
33	Multiple-locus variable number of tandem repeats fingerprinting (MLVF) and virulence factor analysis of methicillin resistant Staphylococcus aureus SCCmec type III. <i>Polish Journal of Microbiology</i> , 2011 , 60, 303-7	1.8	4
32	Neural Network based Maximum Power Point Tracking Technique for PV Arrays in Mobile Applications 2019 ,		3
31	Selective harmonic elimination pulse width modulation in single-phase modular multilevel converter 2015 ,		3
30	Increasing the number of voltage levels in single-phase multilevel converters 2015 ,		3
29	Detection and Localization of Open-Circuit Fault in Modular Multilevel Converter 2020 ,		3
28	A Method to Control the Interphase Power Controller with Common DC Bus. <i>Electric Power Components and Systems</i> , 2017 , 45, 1996-2006	1	3
27	Modular Hybrid DC Breaker-based Adaptive Auto-Reclosing Method for MMC-HVDC Systems 2020 ,		3
26	Comparative and Quantitative analyze on Reliability of MMC-Based and CHB-Based Drive Systems Considering Various Redundancy Strategies 2020 ,		3
25	A Software-Based Fault-Tolerant Strategy for Modular Multilevel Converter Using DC Bus Voltage Control. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 3436-3445	5.6	3
24	Leakage Current Suppression in Multilevel Cascaded H-Bridge Based Photovoltaic Inverters. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 13754-13762	7.2	3
23	Passivity-based Control of Single Phase Cascaded H-Bridge Grid-Connected Photovoltaic Inverter. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	3
22	Reduction of capacitor voltage ripple in a modular multilevel converter employed in adjustable speed drive application 2017 ,		2
21	A new control method for improving the performance of Modular multilevel converter 2017 ,		2

20	A New Space Vector Modulation Technique for Reducing Switching Losses in Induction Motor DTC-SVM Scheme 2019 ,		2
19	A Novel Graph-Based Routing Algorithm in Residential Multimicrogrid Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 1-1	11.9	2
18	A new strategy for load side harmonic reduction using grid-connected photovoltaic inverters 2018 ,		2
17	2019 ,		2
16	Characterization of <i>Alloiococcus otitidis</i> strains isolated from children with otitis media with effusion by Pulsed-Field Gel Electrophoresis. <i>International Journal of Pediatric Otorhinolaryngology</i> , 2012 , 76, 1658-60	1.7	2
15	Fault-tolerant operation of a medium voltage drive based on the Cascaded H-bridge inverter 2011 ,		2
14	Maximum power point tracking for photovoltaic arrays with minimum sensors 2010 ,		2
13	Design and control of a STATCOM based on hybrid cascaded H-bridge and full-bridge neutral point clamped multilevel inverter. <i>IET Power Electronics</i> , 2020 , 13, 4019-4030	2.2	2
12	Symmetric Cascaded H-bridge Multilevel Inverter with Enhanced Multi-Phase Fault Tolerant Capability. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	2
11	A Fault-Tolerant Method for Cascaded H-Bridge Based Photovoltaic Inverters with Improved Active and Reactive Power Injection Capability in Post-Fault Condition. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	2
10	Modeling and estimation of the maximum power of solar arrays under partial shading conditions 2020 ,		1
9	Power management in multi-microgrid system based on energy routers 2020 ,		1
8	2018 ,		1
7	Optimal Switching Sequence Based Model Predictive Control for a Hybrid Multilevel STATCOM. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
6	Estimation and Interruption of Short Circuit Currents in HVDC Systems 2019 ,		1
5	A Highly Reliable Low-Cost Single-Switch Resonant DC-DC Converter with High Gain and Low Component Count. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
4	A High Voltage Capacitor Charger Based On a Novel LCCL Resonant Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	0
3	Finite control set model predictive control for static synchronous compensator based on hybrid cascaded H-bridge and neutral point clamped multilevel inverter. <i>International Transactions on Electrical Energy Systems</i> , 2021 , 31, e12745	2.2	0

- 2 Predictive Control of Grid-Connected Modified-CHB with Reserve Batteries in Photovoltaic Application under Asymmetric Operating Condition. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1 8.9 o
- 1 A Simple Hardware-Based Fault-Tolerant method for Cascaded H-bridge Converters. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1 8.9