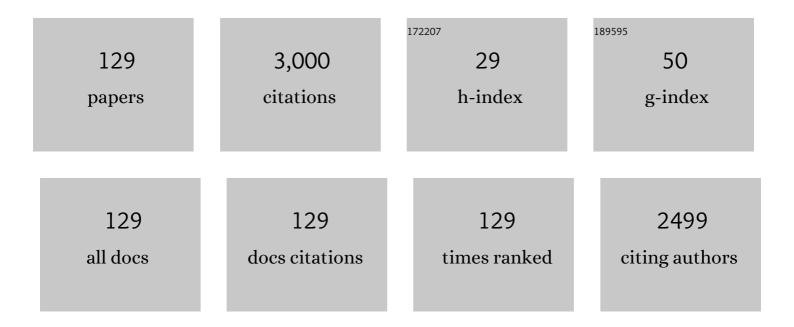
Hossein Iman-Eini

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Modular Strategy for Control and Voltage Balancing of Cascaded H-Bridge Rectifiers. IEEE Transactions on Power Electronics, 2008, 23, 2428-2442.	5.4	180
2	Stationary super-capacitor energy storage system to save regenerative braking energy in a metro line. Energy Conversion and Management, 2012, 56, 206-214.	4.4	119
3	A new maximum power point tracking strategy for PV arrays under uniform and non-uniform insolation conditions. Solar Energy, 2013, 91, 221-232.	2.9	112
4	A voltage balancing strategy with extended operating region for cascaded H-bridge converters. IEEE Transactions on Power Electronics, 2014, 29, 5044-5053.	5.4	110
5	Global Maximum Power Point Tracking Method for Photovoltaic Arrays Under Partial Shading Conditions. IEEE Transactions on Industrial Electronics, 2017, 64, 2855-2864.	5.2	105
6	Fault-Tolerant Operation of Three-Phase Cascaded H-Bridge Converters Using an Auxiliary Module. IEEE Transactions on Industrial Electronics, 2017, 64, 1018-1027.	5.2	101
7	Modified space vector modulation for faultâ€ŧolerant operation of multilevel cascaded Hâ€bridge inverters. IET Power Electronics, 2013, 6, 742-751.	1.5	97
8	A New Interleaved Coupled-Inductor Nonisolated Soft-Switching Bidirectional DC–DC Converter With High Voltage Gain Ratio. IEEE Transactions on Industrial Electronics, 2018, 65, 5529-5538.	5.2	96
9	Optimized <italic>LCC</italic> -Series Compensated Resonant Network for Stationary Wireless EV Chargers. IEEE Transactions on Industrial Electronics, 2019, 66, 2756-2765.	5.2	92
10	Selective harmonic mitigationâ€pulseâ€width modulation technique with variable DCâ€link voltages in single and threeâ€phase cascaded Hâ€bridge inverters. IET Power Electronics, 2014, 7, 924-932.	1.5	76
11	A New Fault-Tolerant Strategy for a Cascaded H-Bridge Based STATCOM. IEEE Transactions on Industrial Electronics, 2018, 65, 6436-6445.	5.2	73
12	An optimal selective harmonic mitigation technique for high power converters. International Journal of Electrical Power and Energy Systems, 2013, 49, 34-39.	3.3	70
13	MPPT Method for PV Systems Under Partially Shaded Conditions by Approximating l–V Curve. IEEE Transactions on Industrial Electronics, 2018, 65, 3966-3975.	5.2	68
14	Hybrid Modulation Technique for Grid-Connected Cascaded Photovoltaic Systems. IEEE Transactions on Industrial Electronics, 2016, 63, 7843-7853.	5.2	66
15	Selective Harmonic Elimination Technique With Control of Capacitive DC-Link Voltages in an Asymmetric Cascaded H-Bridge Inverter for STATCOM Application. IEEE Transactions on Industrial Electronics, 2018, 65, 8788-8796.	5.2	65
16	Improving the Performance of a Cascaded H-Bridge-Based Interline Dynamic Voltage Restorer. IEEE Transactions on Power Delivery, 2016, 31, 1160-1167.	2.9	49
17	DC link voltage balancing approach for cascaded Hâ€bridge active rectifier based on selective harmonic eliminationâ€pulse width modulation. IET Power Electronics, 2015, 8, 583-590.	1.5	47
18	A modular power electronic transformer based on a cascaded H-bridge multilevel converter. Electric Power Systems Research, 2009, 79, 1625-1637.	2.1	45

#	Article	IF	CITATIONS
19	Improving the Reactive Current Compensation Capability of Cascaded H-Bridge Based STATCOM Under Unbalanced Grid Voltage. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1466-1476.	3.7	44
20	An efficient online time-temperature-dependent creep-fatigue rainflow counting algorithm. International Journal of Fatigue, 2018, 116, 284-292.	2.8	43
21	Optimal selective harmonic elimination for cascaded Hâ€bridgeâ€based multilevel rectifiers. IET Power Electronics, 2014, 7, 350-356.	1.5	41
22	Improved Fault-Tolerant Method for Modular Multilevel Converters by Combined DC and Neutral-Shift Strategy. IEEE Transactions on Industrial Electronics, 2019, 66, 2454-2462.	5.2	41
23	Improved Phasor Estimation Method for Dynamic Voltage Restorer Applications. IEEE Transactions on Power Delivery, 2015, 30, 1467-1477.	2.9	39
24	Dynamic voltage restorer employing multilevel cascaded Hâ€bridge inverter. IET Power Electronics, 2016, 9, 2196-2204.	1.5	38
25	Improved control algorithm for gridâ€connected cascaded Hâ€bridge photovoltaic inverters under asymmetric operating conditions. IET Power Electronics, 2018, 11, 407-415.	1.5	35
26	Fast Artificial Neural Network Based Method for Estimation of the Global Maximum Power Point in Photovoltaic Systems. IEEE Transactions on Industrial Electronics, 2022, 69, 5879-5888.	5.2	35
27	Effects of Creep Failure Mechanisms on Thermomechanical Reliability of Solder Joints in Power Semiconductors. IEEE Transactions on Power Electronics, 2020, 35, 8956-8964.	5.4	34
28	State feedback control strategy and voltage balancing scheme for a transformerâ€less STATic synchronous COMpensator based on cascaded Hâ€bridge converter. IET Power Electronics, 2015, 8, 906-917.	1.5	33
29	Grid-Connected Photovoltaic System Based on a Cascaded H-Bridge Inverter. Journal of Power Electronics, 2012, 12, 578-586.	0.9	31
30	Molecular analysis of typical and atypical enteropathogenic Escherichia coli (EPEC) isolated from children with diarrhoea. Journal of Medical Microbiology, 2013, 62, 191-195.	0.7	30
31	Control scheme for cascaded Hâ€bridge converterâ€based distribution network static compensator. IET Power Electronics, 2014, 7, 2837-2845.	1.5	29
32	A Fault-Tolerant Control Strategy for Cascaded H-Bridge Multilevel Rectifiers. Journal of Power Electronics, 2010, 10, 34-42.	0.9	29
33	Stable operation of grid connected Cascaded H-Bridge inverter under unbalanced insolation conditions. , 2013, , .		28
34	A new switching strategy for transformerâ€less backâ€toâ€back cascaded Hâ€bridge multilevel converter. IET Power Electronics, 2014, 7, 1868-1877.	1.5	27
35	DC Fault Current Blocking With the Coordination of Half-Bridge MMC and the Hybrid DC Breaker. IEEE Transactions on Industrial Electronics, 2020, 67, 5503-5514.	5.2	27
36	Sliding mode control of DFIG powers in the case of unknown flux and rotor currents with reduced switching frequency. International Journal of Electrical Power and Energy Systems, 2018, 96, 347-356.	3.3	26

#	Article	IF	CITATIONS
37	An Impedance-Power Droop Method for Accurate Power Sharing in Islanded Resistive Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3763-3771.	3.7	26
38	Selective Harmonic Elimination in Asymmetric Cascaded Multilevel Inverters Using a New Low-frequency Strategy for Photovoltaic Applications. Electric Power Components and Systems, 2015, 43, 964-969.	1.0	23
39	A Gate Driver Circuit for Series-Connected IGBTs Based on Quasi-Active Gate Control. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 791-799.	3.7	23
40	Dualâ€output DC/DC boost converter for bipolar DC microgrids. IET Renewable Power Generation, 2019, 13, 1402-1410.	1.7	23
41	A Novel Extended Impedance-Power Droop for Accurate Active and Reactive Power Sharing in a Multi-Bus Microgrid With Complex Impedances. IEEE Transactions on Smart Grid, 2020, 11, 3795-3804.	6.2	23
42	Modified stepâ€up boost converter with coupledâ€inductor and superâ€lift techniques. IET Power Electronics, 2015, 8, 898-905.	1.5	22
43	Predictive Control of Grid-Connected Modified-CHB With Reserve Batteries in Photovoltaic Application Under Asymmetric Operating Condition. IEEE Transactions on Industrial Electronics, 2022, 69, 9019-9028.	5.2	22
44	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. Acta Microbiologica Et Immunologica Hungarica, 2011, 58, 31-39.	0.4	21
45	A minimum loss switching method using space vector modulation for cascaded H-bridge multilevel inverter. , 2012, , .		21
46	ZCSâ€PWM interleaved boost converter using resonance lamp auxiliary circuit. IET Power Electronics, 2017, 10, 405-412.	1.5	21
47	Reactive power sharing improvement of droopâ€controlled DFIG wind turbines in a microgrid. IET Generation, Transmission and Distribution, 2018, 12, 842-849.	1.4	20
48	Modulation technique for Fourâ€Leg Voltage Source Inverter without a Lookâ€Up Table. IET Power Electronics, 2016, 9, 648-656.	1.5	19
49	Evaluation of loss effect on optimum operation of variable speed micro-hydropower energy conversion systems. Renewable Energy, 2019, 131, 1022-1034.	4.3	19
50	Fault-Tolerant Method to Reduce Voltage Stress of Submodules in Postfault Condition for Regenerative MMC-Based Drive. IEEE Transactions on Industrial Electronics, 2021, 68, 4718-4726.	5.2	19
51	A New High-Switching-Frequency Modulation Technique to Improve the DC-Link Voltage Utilization in Multilevel Converters. IEEE Transactions on Industrial Electronics, 2017, 64, 1807-1817.	5.2	18
52	Enhancing the reliability of single-phase CHB-based grid-connected photovoltaic energy systems. , 2011, , ,		17
53	Reliability Assessment of Multistate Degraded Systems: An Application to Power Electronic Systems. IEEE Transactions on Power Electronics, 2020, 35, 4024-4032.	5.4	17
54	Leakage Current Suppression in Multilevel Cascaded H-Bridge Based Photovoltaic Inverters. IEEE Transactions on Power Electronics, 2021, 36, 13754-13762.	5.4	17

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55	Investigation of a cascaded H-bridge photovoltaic inverter under non-uniform insolation conditions by hardware-in-the-loop test. International Journal of Electrical Power and Energy Systems, 2019, 105, 330-340.	3.3	16
56	Passivity-Based Control of Single-Phase Cascaded H-Bridge Grid-Connected Photovoltaic Inverter. IEEE Transactions on Industrial Electronics, 2023, 70, 1512-1520.	5.2	16
57	Extending the operating range of cascaded H-bridge based multilevel rectifier under unbalanced load conditions. , 2010, , .		15
58	Optimal stationary super-capacitor energy storage system in a metro line. , 2011, , .		15
59	A Redundancyâ€based scheme for balancing DCâ€link voltages in cascaded Hâ€bridge rectifiers. IET Power Electronics, 2013, 6, 235-243.	1.5	15
60	A novel PSO (Particle Swarm Optimization)-based approach for optimal schedule of refrigerators using experimental models. Energy, 2016, 107, 707-715.	4.5	15
61	Adaptive Sensorless SM-DPC of DFIG-Based WECS Under Disturbed Grid: Study and Experimental Results. IEEE Transactions on Sustainable Energy, 2018, 9, 570-581.	5.9	14
62	Reliable simple method for suppression of leakage current in gridâ€connected CHB inverters. IET Power Electronics, 2018, 11, 2170-2177.	1.5	14
63	A Reliable Three-Phase Transformerless Grid-Connected PV Inverter With Inductive DC Link. IEEE Journal of Photovoltaics, 2018, 8, 1305-1312.	1.5	14
64	Non-equal DC link Voltages in a Cascaded H-Bridge with a Selective Harmonic Mitigation-PWM Technique Based on the Fundamental Switching Frequency. Journal of Power Electronics, 2017, 17, 106-114.	0.9	14
65	Analysis, Design, and Implementation of DC–DC IBBC-DAHB Converter With Voltage Matching to Improve Efficiency. IEEE Transactions on Industrial Electronics, 2019, 66, 5209-5219.	5.2	13
66	Improved postâ€fault operation strategy for a cascaded Hâ€bridge based STATCOM. IET Power Electronics, 2020, 13, 2413-2423.	1.5	12
67	Symmetric Cascaded H-Bridge Multilevel Inverter With Enhanced Multi-Phase Fault Tolerant Capability. IEEE Transactions on Industrial Electronics, 2022, 69, 8739-8750.	5.2	12
68	Cascaded H-bridge Based STATCOM With Improved Ride Through Capability of Submodule Failures. IEEE Transactions on Industrial Electronics, 2022, 69, 4034-4045.	5.2	12
69	Design and Implementation of Ozone Production Power Supply for the Application of Microbial Purification of Water. IEEE Transactions on Power Electronics, 2020, 35, 8215-8223.	5.4	11
70	A Software-Based Fault-Tolerant Strategy for Modular Multilevel Converter Using DC Bus Voltage Control. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3436-3445.	3.7	11
71	Comparative and Quantitative analyze on Reliability of MMC-Based and CHB-Based Drive Systems Considering Various Redundancy Strategies. , 2020, , .		10
72	A Novel Graph-based Routing Algorithm in Residential Multi-Microgrid Systems. IEEE Transactions on Industrial Informatics, 2020, , 1-1.	7.2	10

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#	Article	IF	CITATIONS
73	Multiple-Locus Variable Number of Tandem Repeats Fingerprinting (MLVF) and Virulence Factor Analysis of Methicillin Resistant Staphylococcus aureus SCCmec type III. Polish Journal of Microbiology, 2011, 60, 303-307.	0.6	10
74	An LCL-based interface connecting photovoltaic back-up inverter to load and grid. , 2013, , .		9
75	Open-circuit fault detection and localization in Modular Multilevel Converter. , 2015, , .		9
76	Optimal Switching-Sequence-Based Model Predictive Control for a Hybrid Multilevel STATCOM. IEEE Transactions on Industrial Electronics, 2022, 69, 9952-9960.	5.2	9
77	Neural Network based Maximum Power Point Tracking Technique for PV Arrays in Mobile Applications. , 2019, , .		8
78	Increasing the number of voltage levels in single-phase multilevel converters. , 2015, , .		7
79	Reciprocal and Self-Aging Effects of Power Components on Reliability of DC–DC Boost Converter With Coupled and Decoupled Thermal Structures. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 2506-2513.	1.4	7
80	Modeling and estimation of the maximum power of solar arrays under partial shading conditions. , 2020, , .		7
81	Shared Redundancy Strategy to Improve the Reliability and Fault-Tolerant Capability of Modular Multilevel Converter. IEEE Transactions on Industrial Electronics, 2023, 70, 3326-3336.	5.2	7
82	Thermomechanical Fatigue Damage Model of a Solder Joint in Electronic Devices: An Interval Arithmetic Based Approach. Journal of Electronic Materials, 2022, 51, 5376-5388.	1.0	7
83	Fault-tolerant operation of a medium voltage drive based on the Cascaded H-bridge inverter. , 2011, , .		6
84	A Robust LESO-based DC-Link Voltage Controller for Variable Speed Hydro-Electric Plants. , 2019, , .		6
85	Efficient real-time estimation for DFIG—Performance and reliability enhancement of grid/micro-grid connected energy conversion systems. Journal of Renewable and Sustainable Energy, 2019, 11, 025503.	0.8	6
86	Modular Hybrid DC Breaker-based Adaptive Auto-Reclosing Method for MMC-HVDC Systems. , 2020, , .		6
87	Detection and Localization of Open-Circuit Fault in Modular Multilevel Converter. , 2020, , .		6
88	A Simple Hardware-Based Fault-Tolerant Method for Cascaded H-Bridge Converters. IEEE Transactions on Industrial Electronics, 2022, 69, 9711-9720.	5.2	6
89	A Highly Reliable Low-Cost Single-Switch Resonant DC–DC Converter With High Gain and Low Component Count. IEEE Transactions on Industrial Electronics, 2023, 70, 2556-2565.	5.2	6
90	A new strategy for control of cascaded H-bridge rectifiers with uneqaul loads. , 2011, , .		5

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91	Phenotypic and genotypic evaluation of fluoroquinolone resistance in clinical isolates of Staphylococcus aureus in Tehran. Medical Science Monitor, 2011, 17, PH71-PH74.	0.5	5
92	Developed MPPT Algorithm for Photovoltaic Systems without a Voltage Sensor. Journal of Power Electronics, 2013, 13, 1042-1050.	0.9	5
93	Control of Single-Phase Bidirectional PEV/EV Charger Based on FCS-MPC Method for V2G Reactive Power Operation. , 2019, , .		5
94	Utilization of Soft-Switched Boost Converter for MPPT Application in Photovoltaic Single-Phase Grid-Connected Inverter. , 2020, , .		5
95	Power management in multi-microgrid system based on energy routers. , 2020, , .		5
96	Selective harmonic elimination pulse width modulation in single-phase modular multilevel converter. , 2015, , .		4
97	Using auxiliary signals as a simple method for balancing DC bus voltages in cascaded H- bridge converters. , 2015, , .		4
98	A new strategy for load side harmonic reduction using grid-connected photovoltaic inverters. , 2018, , .		4
99	A New Space Vector Modulation Technique for Reducing Switching Losses in Induction Motor DTC-SVM Scheme. , 2019, , .		4
100	A Fault-Tolerant Method for Cascaded H-Bridge-Based Photovoltaic Inverters With Improved Active and Reactive Power Injection Capability in Postfault Condition. IEEE Transactions on Industrial Electronics, 2022, 69, 9029-9038.	5.2	4
101	A High-Voltage Capacitor Charger Based on a Novel <i>LCCL</i> Resonant Converter. IEEE Transactions on Industrial Electronics, 2022, 69, 11046-11054.	5.2	4
102	Multiple-locus variable number of tandem repeats fingerprinting (MLVF) and virulence factor analysis of methicillin resistant Staphylococcus aureus SCCmec type III. Polish Journal of Microbiology, 2011, 60, 303-7.	0.6	4
103	A Method to Control the Interphase Power Controller with Common DC Bus. Electric Power Components and Systems, 2017, 45, 1996-2006.	1.0	3
104	Design and control of a STATCOM based on hybrid cascaded Hâ€bridge and fullâ€bridge neutral point clamped multilevel inverter. IET Power Electronics, 2020, 13, 4019-4030.	1.5	3
105	Maximum power point tracking for photovoltaic arrays with minimum sensors. , 2010, , .		2
106	Characterization of Alloiococcus otitidis strains isolated from children with otitis media with effusion by Pulsed-Field Gel Electrophoresis. International Journal of Pediatric Otorhinolaryngology, 2012, 76, 1658-1660.	0.4	2
107	Reduction of capacitor voltage ripple in a modular multilevel converter employed in adjustable speed drive application. , 2017, , .		2
108	A new control method for improving the performance of Modular multilevel converter. , 2017, , .		2

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109	Robust hybrid control of parallel inverters for accurate power-sharing in microgrid. , 2020, , .		2
110	Performance Improvement of Unified Power Quality Conditioner Under Various Load, Source, and Line Conditions Using A New Control Method. , 2020, , .		2
111	A Novel Boost-Based Quasi Resonant DC-DC Converter with Low Component Count for Stand-Alone PV Applications. , 2021, , .		2
112	Cost comparison of four-level NNPC converter with four-level FC and NPC converters. , 2022, , .		2
113	An analytic approach for estimation of maximum power point in solar cars. , 2012, , .		1
114	A bidirectional buck-boost bipolar DC/DC converter with inductive dc link. , 2018, , .		1
115	Estimation and Interruption of Short Circuit Currents in HVDC Systems. , 2019, , .		1
116	Finite control set model predictive control for <scp>static synchronous compensator</scp> based on hybrid cascaded <scp>Hâ€bridge</scp> and neutral point clamped multilevel inverter. International Transactions on Electrical Energy Systems, 2021, 31, e12745.	1.2	1
117	Using Grid Connected PUC Inverter With Robust Control Against Hybrid DG's Oscillation. , 2021, , .		1
118	A Novel Zero Voltage Transition soft-switching PWM Boost Converter with low voltage stress. , 2021, , ,		1
119	An Open-Circuit Fault Detection and Localization Scheme for Switch Failures in Modular Multilevel Converter Based on Arm Voltage Analysis. , 2022, , .		1
120	Extending the utilization of DC-link voltage in multi-level inverters using a new modulation technique. , 2015, , .		0
121	Semiconductor loss reduction in a Modular Multilevel Converter by harmonic injection to the reference voltage. , 2017, , .		0
122	An Ozone Generator Power Supply for Water Purification. , 2019, , .		0
123	A Semi-Controlled Soft Charge Rectifier for Medium/High Power AC Drives: design and implementation. , 2020, , .		0
124	Sensorless flying start method for starting of induction motors. , 2021, , .		0
125	A Multilevel Converter Based on Cascaded Flying Cells with High Modularity and Single DC-link per Phase. , 2021, , .		0
126	A Space Vector Modulation based Model Predictive Control for Low Frequency Operation of Nested Piloted NPC. , 2021, , .		0

#	Article	IF	CITATIONS
127	Interharmonic current sharing in islanding operation of inductive microgrid via enhanced lâ \in P droop scheme. IET Renewable Power Generation, 0, , .	1.7	Ο
128	Fifteen-Level Enhanced Boost Active-Neutral-Point-Clamped (15L-EBANPC) Inverter. , 2022, , .		0
129	An Asymmetrical T-Type Boost Multilevel Inverter Topology. , 2022, , .		0