

# Mahmoud Shahbazi

## List of Publications by Year in descending order

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papers

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docs citations

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times ranked

769  
citing authors

#	ARTICLE	IF	CITATIONS
1	Open- and Short-Circuit Switch Fault Diagnosis for Nonisolated DC-DC Converters Using Field Programmable Gate Array. IEEE Transactions on Industrial Electronics, 2013, 60, 4136-4146.	5.2	147
2	FPGA-Based Reconfigurable Control for Fault-Tolerant Back-to-Back Converter Without Redundancy. IEEE Transactions on Industrial Electronics, 2013, 60, 3360-3371.	5.2	110
3	Theoretical and technical potential evaluation of solar power generation in Iran. Renewable Energy, 2019, 138, 1250-1261.	4.3	78
4	Improvement of Post-Fault Performance of a Cascaded H-bridge Multilevel Inverter. IEEE Transactions on Industrial Electronics, 2017, 64, 2779-2788.	5.2	69
5	FPGA-Based Fast Detection With Reduced Sensor Count for a Fault-Tolerant Three-Phase Converter. IEEE Transactions on Industrial Informatics, 2013, 9, 1343-1350.	7.2	66
6	Fault-Tolerant Five-Leg Converter Topology With FPGA-Based Reconfigurable Control. IEEE Transactions on Industrial Electronics, 2013, 60, 2284-2294.	5.2	48
7	Real-time power switch fault diagnosis and fault-tolerant operation in a DFIG-based wind energy system. Renewable Energy, 2018, 116, 209-218.	4.3	30
8	Five-leg converter topology for wind energy conversion system with doubly fed induction generator. Renewable Energy, 2011, 36, 3187-3194.	4.3	28
9	Open-circuit switch fault tolerant wind energy conversion system based on six/five-leg reconfigurable converter. Electric Power Systems Research, 2016, 137, 104-112.	2.1	25
10	Type direct AC/AC converter structure. IET Power Electronics, 2016, 9, 1426-1436.	1.5	16
11	FPGA based fault detection and fault tolerance operation in DC-DC converters. , 2014, , .		14
12	A fast and simple method to detect short circuit fault in cascaded H-bridge multilevel inverter. , 2015, , .		13
13	Fast detection of open-switch faults with reduced sensor count for a fault-tolerant three-phase converter. , 2011, , .		8
14	A new fault tolerant scheme for cascaded H-Bridge multilevel converter. , 2013, , .		8
15	Wind energy conversion system based on DFIG with open switch fault tolerant six-legs AC-DC-AC converter. , 2013, , .		8
16	Fast short circuit power switch fault detection in cascaded H-bridge multilevel converter. , 2013, , .		8
17	Coordinated control of DC voltage magnitudes and state of charges in a cluster of DC microgrids. , 2016, , .		8
18	Design and implementation of an FPGA-based Real-time simulator for H-Bridge converter. , 2016, , .		8

#	ARTICLE	IF	CITATIONS
19	Universal branch model for the solution of optimal power flows in hybrid AC/DC grids. International Journal of Electrical Power and Energy Systems, 2021, 126, 106543.	3.3	8
20	Fast detection of open-switch fault in cascaded H-Bridge multilevel converter. , 2015, , .		6
21	A new fault detection method for modular multilevel converter semiconductor power switches. , 2015, , .		6
22	Quick Diagnosis of Short Circuit Faults in Cascaded H-Bridge Multilevel Inverters using FPGA. Journal of Power Electronics, 2017, 17, 56-66.	0.9	5
23	Modeling, control and voltage unbalance compensation in a four-switch rectifier with input power factor correction. , 2013, , .		4
24	Fast and simple open-circuit fault detection method for interleaved DC-DC converters. , 2016, , .		4
25	Real-time Cost Optimisation for Power Management in Microgrids Using Multi-Agent Control. , 2019, , .		3
26	Distributed Real-Time Power Management in Microgrids Using Multi-Agent Control with Provisions for Fault-Tolerance. , 2020, , .		3
27	Price Forecast Methodologies Comparison for Microgrid Control with Multi-Agent Systems. , 2021, , .		3
28	Energy Hub Scheduling Method with Voltage Stability Considerations. , 2018, , .		2
29	Control of a four-switch rectifier under unbalanced input voltage. , 2014, , .		1
30	Fast Detection of Open-Switch Fault in Cascaded H-Bridge Multilevel Converter. Scientia Iranica, 2017, .	0.3	1
31	Statistical evaluation of wind speed forecast models for microgrid distributed control. IET Smart Grid, 2022, 5, 347-362.	1.5	1
32	FPGA-based fault tolerant scheme with reduced extra-sensor number for WECS with DFIG. , 2011, , .		0
33	Implementation and hardware in the loop verification of five-leg converter control system on a FPGA. , 2011, , .		0