

# Saeed Peyghami

## List of Publications by Year in Descending Order

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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.

58

papers

695

citations

16

h-index

24

g-index

84

ext. papers

1,098

ext. citations

5.2

avg, IF

5.13

L-index

#	Paper	IF	Citations
58	Power Management Strategies Based on Propellers Speed Control in Waves for Mitigating Power Fluctuations of Ships. <i>IEEE Transactions on Transportation Electrification</i> , <b>2022</b> , 1-1	7.6	0
57	Reliability aspects in microgrid design and planning: Status and power electronics-induced challenges. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 159, 112127	16.2	6
56	Condition Monitoring of DC-link Electrolytic Capacitor in Back-to-Back Converters Based on Dissipation Factor. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 1-1	7.2	4
55	Efficient Fixed-Switching Modulated Finite Control Set-Model Predictive Control Based on Artificial Neural Networks. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 3134	2.6	1
54	On-line Condition Monitoring System for DC-link Capacitor of Back-to-Back Converters Using Large-signal Transients. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2022</b> , 1-1	5.6	1
53	Voltage Balancing of Series IGBTs in Short-Circuit Conditions. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 1-1	7.2	0
52	Intelligent long-term performance analysis in power electronics systems. <i>Scientific Reports</i> , <b>2021</b> , 11, 7557	4.9	7
51	Frequency security constrained control of power electronic-based generation systems. <i>IET Renewable Power Generation</i> , <b>2021</b> , 15, 2246-2256	2.9	1
50	Modeling In-and-Out-of-Water Impact on All-Electric Ship Power System Considering Propeller Submergence in Waves <b>2021</b> ,		1
49	A Decentralized Reliability-Enhanced Power Sharing Strategy for PV-Based Microgrids. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 7281-7293	7.2	11
48	Smart Grid Challenges and Barriers <b>2021</b> , 449-467		
47	Fuzzy-based frequency security evaluation of wind-integrated power systems. <i>IET Energy Systems Integration</i> , <b>2021</b> , 3, 451	3.3	0
46	Incorporating Power Electronic Converters Reliability Into Modern Power System Reliability Analysis. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 1668-1681	5.6	24
45	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 1290-1301	5.6	5
44	. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 6092-6105	7.2	5
43	An Open-Water Efficiency Based Speed Change Strategy With Propeller Lifespan Enhancement in All-Electric Ships. <i>IEEE Access</i> , <b>2021</b> , 9, 22595-22604	3.5	3
42	A Theoretical Concept of Decoupled Current Control Scheme for Grid-Connected Inverter with L-C-L Filter. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 6256	2.6	1

41	A comprehensive study on reliability performance of Photovoltaic-battery-based microgrids under different energy management strategies. <i>Journal of Energy Storage</i> , <b>2021</b> , 43, 103051	7.8	3
40	Fast and Accurate Modeling of Power Converter Availability for Adequacy Assessment. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 1-1	4.3	0
39	Time Domain Simulation of A Five-Phase BLDC Motor Drive <b>2020</b> ,		2
38	A New Guideline for Security Assessment of Power Systems with a High Penetration of Wind Turbines. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3190	2.6	4
37	A Guideline for Reliability Prediction in Power Electronic Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 10958-10968	7.2	29
36	DC-link loop bandwidth selection strategy for grid-connected inverters considering power quality requirements. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2020</b> , 119, 105879	5.1	6
35	An Overview on the Reliability of Modern Power Electronic Based Power Systems. <i>IEEE Open Journal of Power Electronics</i> , <b>2020</b> , 1, 34-50	2.5	39
34	A Preventive Maintenance Planning Approach for Wind Converters <b>2020</b> ,		2
33	Demands for Bridging Power Electronics and Power System Engineering Concepts <b>2020</b> ,		1
32	Two-Stage Single-Source Full-Bridge Based Three- Phase Inverter for Medium Voltage Applications <b>2020</b> ,		2
31	Effect of Unipolar and Bipolar SPWM on the Lifetime of DC-link Capacitors in Single-Phase Voltage Source Inverters <b>2020</b> ,		2
30	Control of Grid-Following Inverters Under Unbalanced Grid Conditions. <i>IEEE Transactions on Energy Conversion</i> , <b>2020</b> , 35, 184-192	5.4	21
29	Reliability Evaluation in Microgrids With Non-Exponential Failure Rates of Power Units. <i>IEEE Systems Journal</i> , <b>2020</b> , 14, 2861-2872	4.3	9
28	Availability Modeling in Power Converters Considering Components Aging. <i>IEEE Transactions on Energy Conversion</i> , <b>2020</b> , 35, 1981-1984	5.4	5
27	Maintenance Scheduling in Power Electronic Converters Considering Wear-out Failures <b>2020</b> ,		4
26	System-Level Design for Reliability and Maintenance Scheduling in Modern Power Electronic-Based Power Systems. <i>IEEE Open Access Journal of Power and Energy</i> , <b>2020</b> , 7, 414-429	3.8	7
25	Reliability Modeling of Power Electronic Converters: A General Approach <b>2019</b> ,		12
24	. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 5055-5067	4.3	21

23	Decentralized Droop Control in DC Microgrids Based on a Frequency Injection Approach. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 6782-6791	10.7	23
22	System-Level Reliability-Oriented Power Sharing Strategy for DC Power Systems. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 4865-4875	4.3	29
21	Autonomous and decentralized load sharing and energy management approach for DC microgrids. <i>Electric Power Systems Research</i> , <b>2019</b> , 177, 106009	3.5	21
20	Analytical Modeling of 9-150 kHz EMI in Single-Phase PFC Converter <b>2019</b> ,		2
19	Standard Test Systems for Modern Power System Analysis: An Overview. <i>IEEE Industrial Electronics Magazine</i> , <b>2019</b> , 13, 86-105	6.2	28
18	Security Analysis of Power Electronic-based Power Systems <b>2019</b> ,		2
17	Enhanced Frequency Droop Method for load sharing in LVDC power systems <b>2018</b> ,		3
16	System-level lifetime-oriented power sharing control of paralleled DC/DC converters <b>2018</b> ,		1
15	Distributed Primary and Secondary Power Sharing in a Droop-Controlled LVDC Microgrid With Merged AC and DC Characteristics. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 2284-2294	10.7	51
14	Autonomous Operation of a Hybrid AC/DC Microgrid With Multiple Interlinking Converters. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 6480-6488	10.7	71
13	Autonomous Power Management in LVDC Microgrids Based on a Superimposed Frequency Droop. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 5341-5350	7.2	26
12	Mission Profile Based Power Converter Reliability Analysis in a DC Power Electronic Based Power System <b>2018</b> ,		5
11	System-level reliability enhancement of DC/DC stage in a single-phase PV inverter. <i>Microelectronics Reliability</i> , <b>2018</b> , 88-90, 1030-1035	1.2	10
10	Characterization of Proportional-Integral-Resonant Compensator for DC Link Voltage Control <b>2018</b> ,		2
9	The Impact of Topology and Mission Profile on the Reliability of Boost-type Converters in PV Applications <b>2018</b> ,		14
8	Decentralized Load Sharing in a Low-Voltage Direct Current Microgrid With an Adaptive Droop Approach Based on a Superimposed Frequency. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2017</b> , 5, 1205-1215	5.6	46
7	. <i>IEEE Transactions on Industry Applications</i> , <b>2017</b> , 53, 4855-4862	4.3	27
6	Grid Synchronization for Distributed Generations <b>2017</b> , 179-194		4

5	Hierarchical Power Sharing Control in DC Microgrids <b>2017</b> , 63-100		18
4	Synchronverter-Enabled DC Power Sharing Approach for LVDC Microgrids. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 8089-8099	7.2	50
3	Distributed secondary control in DC microgrids with low-bandwidth communication link <b>2016</b> ,		8
2	Smart power management of DC microgrids in future milligrids <b>2016</b> ,		5
1	Distributed and decentralized control of dc microgrids23-42		3