

Lazhar Ben-Brahim

List of Publications by Citations

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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.

56 papers	1,128 citations	15 h-index	33 g-index
62 ext. papers	1,534 ext. citations	4.8 avg, IF	4.8 L-index

#	Paper	IF	Citations
56	Review of optimization techniques applied for the integration of distributed generation from renewable energy sources. <i>Renewable Energy</i> , 2017 , 113, 266-280	8.1	225
55	. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 6108-6117	8.9	139
54	Finite-Control-Set Model Predictive Control for Grid-Connected Packed-U-Cells Multilevel Inverter. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 7286-7295	8.9	96
53	Real-Time Fault Detection and Identification for MMC Using 1-D Convolutional Neural Networks. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 8760-8771	8.9	87
52	Modular Multilevel Converter Circulating Current Reduction Using Model Predictive Control. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 3857-3866	8.9	84
51	A Resolver Angle Estimator Based on Its Excitation Signal. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 574-580	8.9	60
50	A New Low Cost Linear Resolver Converter. <i>IEEE Sensors Journal</i> , 2008 , 8, 1620-1627	4	46
49	A Discontinuous PWM Method for Balancing the Neutral Point Voltage in Three-Level Inverter-Fed Variable Frequency Drives. <i>IEEE Transactions on Energy Conversion</i> , 2008 , 23, 1057-1063	5.4	37
48	Long-term performance analysis and power prediction of PV technology in the State of Qatar. <i>Renewable Energy</i> , 2017 , 113, 952-965	8.1	34
47	Review and simulation of leakage current in transformerless microinverters for PV applications. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 74, 1240-1256	16.2	28
46	Robust Adaptive Observer-Based Model Predictive Control for Multilevel Flying Capacitors Inverter. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 7876-7886	8.9	28
45	A novel method for estimating the angle from analog co-sinusoidal quadrature signals. <i>Sensors and Actuators A: Physical</i> , 2008 , 142, 225-231	3.9	27
44	An effective Model Predictive Control for grid connected Packed U Cells multilevel inverter 2016 ,		21
43	Common mode voltage reduction in a three-to-five phase matrix converter fed induction motor drive. <i>IET Power Electronics</i> , 2017 , 10, 817-825	2.2	17
42	Design and Implementation of Cascaded Multilevel qZSI Powered Single-Phase Induction Motor for Isolated Grid Water Pump Application. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 1907-1917	4.3	16
41	Survey about public perception regarding smart grid, energy efficiency & renewable energies applications in Qatar. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 82, 168-175	16.2	14
40	A New Variable Frequency Control of 49-Level Cascaded Packed U-Cell Voltage Source Inverter. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 7537-7548	4.3	13

39	Reinforcement Learning Based EV Charging Management Systems: A Review. <i>IEEE Access</i> , 2021 , 9, 41506-41531	3.5	13
38	A Battery Health Monitoring Method Using Machine Learning: A Data-Driven Approach. <i>Energies</i> , 2020 , 13, 3658	3.1	10
37	Modeling and control for new LLCL filter based grid-tied PV inverters with active power decoupling and active resonance damping capabilities. <i>Electric Power Systems Research</i> , 2018 , 155, 307-319	3.5	10
36	Novel voltage balancing algorithm for single-phase cascaded multilevel inverter for post-module failure operation in solar photovoltaic applications. <i>IET Renewable Power Generation</i> , 2019 , 13, 427-437	2.9	9
35	A new PLL method for resolvers 2010 ,		8
34	Design and analysis of high-gain medium-voltage DC-DC converters for high-power PV applications 2018 ,		7
33	2017 ,		6
32	Dual Mechanical Port Machine Based Hybrid Electric Vehicle Using Reduced Switch Converters. <i>IEEE Access</i> , 2019 , 7, 33665-33676	3.5	6
31	. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 4766-4777	7.2	6
30	High Brightness and High Voltage Dimmable LED Driver for Advanced Lighting System. <i>IEEE Access</i> , 2019 , 7, 95643-95652	3.5	5
29	A Neutral Point Voltage Balancing Method for Multi-Level GTO Inverters. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2006 ,		5
28	An interconnected observer for modular multilevel converter 2016 ,		5
27	Thyristor based SVC and multilevel qZSI for Active and Reactive power management in solar PV system 2017 ,		4
26	Space vector pulse width modulation techniques for a five-phase impedance source and quazi impedance source inverters 2015 ,		4
25	A novel control scheme for three-phase seven-level packed U-Cell based DSTATCOM. <i>Electric Power Systems Research</i> , 2020 , 182, 106201	3.5	4
24	Finite control set model predictive control for grid-tied quasi-Z-source based multilevel inverter 2016 ,		4
23	Multilevel cascaded Z source inverter for PV power generation system 2012 ,		4
22	Iterative learning control for variable frequency drives. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , 2008 ,		4

21	Deadbeat control of induction motor current using state observer with adaptive poles selection.. <i>IEEJ Transactions on Industry Applications</i> , 1990 , 110, 590-597	0.2	4
20	Review of Medium Voltage High Power Electric Drives. <i>IEEJ Journal of Industry Applications</i> , 2019 , 8, 1-11	0.7	3
19	Switchless Power Decoupling and Switchless Leakage Current Elimination in Grid-Tied Inverters 2017 ,		3
18	Optimized FPGA Implementation of PWM-Based Control of Three-Phase Nine-Level Quasi Impedance Source Inverter. <i>IEEE Access</i> , 2019 , 7, 137279-137290	3.5	3
17	High-Power Drive Systems for Industrial Applications: Practical Examples 2014 , 695-726		3
16	EK 7-multilevel inverter 7a minimal switch novel configuration for higher number of output voltage levels. <i>IET Power Electronics</i> , 2020 , 13, 2804-2815	2.2	3
15	Novel Level-Shifted PWM Technique for Cascaded Multilevel Quasi-Impedance Source Inverter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 5918-5928	5.6	3
14	Mitigation of voltage imbalance in power distribution system using MPC-controlled packed-U-cells converter. <i>Energy Science and Engineering</i> , 2019 , 7, 1659-1668	3.4	2
13	Cascaded multilevel qZSI powered single-phase induction motor for water pump application 2017 ,		2
12	Enhanced Deadbeat Control Approach for Grid-Tied Multilevel Flying Capacitors Inverter. <i>IEEE Access</i> , 2022 , 1-1	3.5	2
11	Common mode voltage reduction in open-end multi-phase load system fed through matrix converter 2016 ,		2
10	Time-Dependent Bit Error Rate Analysis for Smart Utility Networks in the Presence of WLAN Interferers. <i>IEEE Systems Journal</i> , 2020 , 14, 2133-2143	4.3	2
9	A wavelet-based passive islanding detection technique 2012 ,		1
8	A resolver converter based upon a novel open-loop technique 2008 ,		1
7	A Novel Converter for Sinusoidal Encoders 2006 ,		1
6	Planning and Optimizing Electric-Vehicle Charging Infrastructure Through System Dynamics (December 2021). <i>IEEE Access</i> , 2022 , 1-1	3.5	1
5	Current stress and switching loss evaluation of a unified expandable power converter used for grid-integration of renewable energy sources. <i>IET Renewable Power Generation</i> , 2021 , 15, 2561-2570	2.9	1
4	Design considerations, modelling, and control of dual-active full bridge for electric vehicles charging applications. <i>Journal of Engineering</i> , 2019 , 2019, 8439-8447	0.7	1

3	New Fast Arctangent Approximation Algorithm for Generic Real-Time Embedded Applications. <i>Sensors</i> , 2019 , 19,	3.8	1
2	Fault tolerant single-phase capacitor start capacitor run induction motor powered with cascaded multilevel quasi impedance source inverter. <i>Journal of Engineering</i> , 2019 , 2019, 4036-4040	0.7	0
1	Differential Flatness-Based Performance Enhancement of a Vector Controlled VSC With an LCL-Filter for Weak Grids. <i>IEEE Access</i> , 2021 , 9, 33557-33568	3.5	0