

# Omar Ellabban

## List of Publications by Year in descending order

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48  
papers

3,680  
citations

567281

15  
h-index

713466

21  
g-index

59  
all docs

59  
docs citations

59  
times ranked

4168  
citing authors

#	ARTICLE	IF	CITATIONS
1	SiC-Based Improved Neutral Legs With Reduced Capacitors for Three-Phase Four-Wire EV Chargers. IEEE Transactions on Transportation Electrification, 2022, 8, 2565-2582.	7.8	1
2	Optimal hybrid microgrid sizing framework for the mining industry with three case studies from Australia. IET Renewable Power Generation, 2021, 15, 409-423.	3.1	13
3	Innovative Energy Management System for MVDC Networks with Black-Start Capabilities. Energies, 2021, 14, 2100.	3.1	3
4	A Novel BIPV Reconfiguration Algorithm for Maximum Power Generation under Partial Shading. Energies, 2020, 13, 4470.	3.1	24
5	Reinforcement Learning-Based School Energy Management System. Energies, 2020, 13, 6354.	3.1	11
6	A Review of the Tools and Methods for Distribution Networks' Hosting Capacity Calculation. Energies, 2020, 13, 2758.	3.1	64
7	On Optimal Battery Sizing for Households Participating in Demand-Side Management Schemes. Energies, 2019, 12, 3419.	3.1	13
8	HVDC Transmission: Technology Review, Market Trends and Future Outlook. Renewable and Sustainable Energy Reviews, 2019, 112, 530-554.	16.4	244
9	Integrated Economic Adoption Model for residential grid-connected photovoltaic systems: An Australian case study. Energy Reports, 2019, 5, 310-326.	5.1	48
10	Design of an Intelligent Energy Management System for Standalone PV/Battery DC Microgrids. , 2019, , .		9
11	Generic Distributed Photovoltaic Cost Outlook Methodology: Australian Market Application Example. , 2018, , .		3
12	An interconnected observer for modular multilevel converter. , 2016, , .		10
13	A five-level neutral-point-clamped/H-Bridge quasi-impedance source inverter for grid connected PV system. , 2016, , .		13
14	An overview for the Z-Source Converter in motor drive applications. Renewable and Sustainable Energy Reviews, 2016, 61, 537-555.	16.4	32
15	Smart grid customers' acceptance and engagement: An overview. Renewable and Sustainable Energy Reviews, 2016, 65, 1285-1298.	16.4	116
16	Sensorless model predictive control scheme of wind-driven doubly fed induction generator in dc microgrid. IET Renewable Power Generation, 2016, 10, 514-521.	3.1	54
17	Z-Source Inverter: Topology Improvements Review. IEEE Industrial Electronics Magazine, 2016, 10, 6-24.	2.6	242
18	Z-Source Matrix Converter: An Overview. IEEE Transactions on Power Electronics, 2016, 31, 7436-7450.	7.9	68

#	ARTICLE	IF	CITATIONS
19	Message from the SGRE 2015 technical program chairs. , 2015, , .		0
20	A Quasi-Z-Source Direct Matrix Converter Feeding a Vector Controlled Induction Motor Drive. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 339-348.	5.4	55
21	Generalized carrier based pulse width modulation technique for a three to n-phase dual matrix converter. , 2014, , .		4
22	Predictive Torque Control of an induction motor fed by five-to-three direct matrix converter. , 2014, , .		2
23	Partial resonant ac-link converters &#x2014; A review. , 2014, , .		4
24	Switched reluctance motor converter topologies: A review. , 2014, , .		29
25	Multiphase Wind Energy generation with direct matrix converter. , 2014, , .		14
26	Renewable energy resources: Current status, future prospects and their enabling technology. Renewable and Sustainable Energy Reviews, 2014, 39, 748-764.	16.4	2,024
27	Experimental studies on a three phase improved switched Z-source inverter. , 2014, , .		18
28	Torque control strategies for a high performance switched reluctance motor drive system. , 2013, , .		7
29	Model Predictive Control applied for Quasi-Z-source inverter. , 2013, , .		21
30	Model predictive control of a grid connected quasi-Z-source inverter. , 2013, , .		15
31	Development of a new three-to-five phase bi-directional partial resonant AC Link converter. , 2013, , .		0
32	Grid connected quasi-Z-Source direct matrix converter. , 2013, , .		3
33	Field oriented control of an induction motor fed by a quasi-Z-source direct matrix converter. , 2013, , .		7
34	Predictive torque control of an induction motor fed by a bidirectional quasi Z-source inverter. , 2013, , .		10
35	Indirect field oriented control of an induction motor fed by a bidirectional quasi Z-source inverter. , 2012, , .		9
36	A DSP-Based Dual-Loop Peak DC-link Voltage Control Strategy of the Z-Source Inverter. IEEE Transactions on Power Electronics, 2012, 27, 4088-4097.	7.9	152

#	ARTICLE	IF	CITATIONS
37	Direct torque controlled space vector modulated induction motor fed by a Z-source inverter for electric vehicles. , 2011, , .		21
38	Z-source inverter for vehicular applications. , 2011, , .		13
39	A comparative study of different control techniques for an induction motor fed by a Z-source inverter for electric vehicles. , 2011, , .		22
40	Experimental Study of the Shoot-Through Boost Control Methods for the Z-Source Inverter. EPE Journal (European Power Electronics and Drives Journal), 2011, 21, 18-29.	0.7	47
41	Capacitor Voltage Control Techniques of the Z-source Inverter: A Comparative Study. EPE Journal (European Power Electronics and Drives Journal), 2011, 21, 13-24.	0.7	12
42	A DSP-Based Dual Loop Digital Controller Design and Implementation of a High Power Boost Converter for Hybrid Electric Vehicles Applications. Journal of Power Electronics, 2011, 11, 113-119.	1.5	20
43	Control of a Bidirectional Z-Source Inverter for Electric Vehicle Applications in Different Operation Modes. Journal of Power Electronics, 2011, 11, 120-131.	1.5	30
44	Control of a bidirectional Z-Source Inverter for hybrid electric vehicles in motoring, regenerative braking and grid interface operations. , 2010, , .		15
45	A new closed loop speed control of induction motor fed by a high performance Z-source inverter. , 2010, , .		14
46	A DSP digital controller design and implementation of a high power boost converter in hybrid electric vehicles. , 2010, , .		2
47	Dual loop digital control design and implementation of a DSP based high power boost converter in fuel cell electric vehicle. , 2010, , .		9
48	Voltage mode and current mode control for a 30 kW high-performance Z-source Inverter. , 2009, , .		17