

Omar Ellabban

List of Publications by Year in descending order

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48
papers

3,680
citations

566801

15
h-index

713013

21
g-index

59
all docs

59
docs citations

59
times ranked

4168
citing authors

#	ARTICLE	IF	CITATIONS
1	Renewable energy resources: Current status, future prospects and their enabling technology. Renewable and Sustainable Energy Reviews, 2014, 39, 748-764.	8.2	2,024
2	HVDC Transmission: Technology Review, Market Trends and Future Outlook. Renewable and Sustainable Energy Reviews, 2019, 112, 530-554.	8.2	244
3	Z-Source Inverter: Topology Improvements Review. IEEE Industrial Electronics Magazine, 2016, 10, 6-24.	2.3	242
4	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.	5.4	152
5	Smart grid customers' acceptance and engagement: An overview. Renewable and Sustainable Energy Reviews, 2016, 65, 1285-1298.	8.2	116
6	Z-Source Matrix Converter: An Overview. IEEE Transactions on Power Electronics, 2016, 31, 7436-7450.	5.4	68
7	A Review of the Tools and Methods for Distribution Networks' Hosting Capacity Calculation. Energies, 2020, 13, 2758.	1.6	64
8	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.	3.7	55
9	Sensorless model predictive control scheme of wind-driven doubly fed induction generator in dc microgrid. IET Renewable Power Generation, 2016, 10, 514-521.	1.7	54
10	Integrated Economic Adoption Model for residential grid-connected photovoltaic systems: An Australian case study. Energy Reports, 2019, 5, 310-326.	2.5	48
11	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
12	An overview for the Z-Source Converter in motor drive applications. Renewable and Sustainable Energy Reviews, 2016, 61, 537-555.	8.2	32
13	Control of a Bidirectional Z-Source Inverter for Electric Vehicle Applications in Different Operation Modes. Journal of Power Electronics, 2011, 11, 120-131.	0.9	30
14	Switched reluctance motor converter topologies: A review. , 2014, , .		29
15	A Novel BIPV Reconfiguration Algorithm for Maximum Power Generation under Partial Shading. Energies, 2020, 13, 4470.	1.6	24
16	A comparative study of different control techniques for an induction motor fed by a Z-source inverter for electric vehicles. , 2011, , .		22
17	Direct torque controlled space vector modulated induction motor fed by a Z-source inverter for electric vehicles. , 2011, , .		21
18	Model Predictive Control applied for Quasi-Z-source inverter. , 2013, , .		21

#	ARTICLE	IF	CITATIONS
19	A DSP-Based Dual Loop Digital Controller Design and Implementation of a High Power Boost Converter for Hybrid Electric Vehicles Applications. <i>Journal of Power Electronics</i> , 2011, 11, 113-119.	0.9	20
20	Experimental studies on a three phase improved switched Z-source inverter. , 2014, , .		18
21	Voltage mode and current mode control for a 30 kW high-performance Z-source Inverter. , 2009, , .		17
22	Control of a bidirectional Z-Source Inverter for hybrid electric vehicles in motoring, regenerative braking and grid interface operations. , 2010, , .		15
23	Model predictive control of a grid connected quasi-Z-source inverter. , 2013, , .		15
24	A new closed loop speed control of induction motor fed by a high performance Z-source inverter. , 2010, , .		14
25	Multiphase Wind Energy generation with direct matrix converter. , 2014, , .		14
26	Z-source inverter for vehicular applications. , 2011, , .		13
27	A five-level neutral-point-clamped/H-Bridge quasi-impedance source inverter for grid connected PV system. , 2016, , .		13
28	On Optimal Battery Sizing for Households Participating in Demand-Side Management Schemes. <i>Energies</i> , 2019, 12, 3419.	1.6	13
29	Optimal hybrid microgrid sizing framework for the mining industry with three case studies from Australia. <i>IET Renewable Power Generation</i> , 2021, 15, 409-423.	1.7	13
30	Capacitor Voltage Control Techniques of the Z-source Inverter: A Comparative Study. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2011, 21, 13-24.	0.7	12
31	Reinforcement Learning-Based School Energy Management System. <i>Energies</i> , 2020, 13, 6354.	1.6	11
32	Predictive torque control of an induction motor fed by a bidirectional quasi Z-source inverter. , 2013, , .		10
33	An interconnected observer for modular multilevel converter. , 2016, , .		10
34	Dual loop digital control design and implementation of a DSP based high power boost converter in fuel cell electric vehicle. , 2010, , .		9
35	Indirect field oriented control of an induction motor fed by a bidirectional quasi Z-source inverter. , 2012, , .		9
36	Design of an Intelligent Energy Management System for Standalone PV/Battery DC Microgrids. , 2019, , .		9

#	ARTICLE	IF	CITATIONS
37	Torque control strategies for a high performance switched reluctance motor drive system. , 2013, , .		7
38	Field oriented control of an induction motor fed by a quasi-Z-source direct matrix converter. , 2013, , .		7
39	Generalized carrier based pulse width modulation technique for a three to n-phase dual matrix converter. , 2014, , .		4
40	Partial resonant ac-link converters — A review. , 2014, , .		4
41	Grid connected quasi-Z-Source direct matrix converter. , 2013, , .		3
42	Generic Distributed Photovoltaic Cost Outlook Methodology: Australian Market Application Example. , 2018, , .		3
43	Innovative Energy Management System for MVDC Networks with Black-Start Capabilities. Energies, 2021, 14, 2100.	1.6	3
44	A DSP digital controller design and implementation of a high power boost converter in hybrid electric vehicles. , 2010, , .		2
45	Predictive Torque Control of an induction motor fed by five-to-three direct matrix converter. , 2014, , .		2
46	SiC-Based Improved Neutral Legs With Reduced Capacitors for Three-Phase Four-Wire EV Chargers. IEEE Transactions on Transportation Electrification, 2022, 8, 2565-2582.	5.3	1
47	Development of a new three-to-five phase bi-directional partial resonant AC Link converter. , 2013, , .		0
48	Message from the SGRE 2015 technical program chairs. , 2015, , .		0