

# Liliana de Lillo

## List of Publications by Year in descending order

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42  
docs citations

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times ranked

993  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiphase Power Converter Drive for Fault-Tolerant Machine Development in Aerospace Applications. IEEE Transactions on Industrial Electronics, 2010, 57, 575-583.	5.2	163
2	Open-Circuit Fault Detection and Diagnosis in Matrix Converters. IEEE Transactions on Power Electronics, 2015, 30, 2840-2847.	5.4	100
3	Fault-Tolerant Matrix Converter Motor Drives With Fault Detection of Open Switch Faults. IEEE Transactions on Industrial Electronics, 2012, 59, 257-268.	5.2	83
4	Control of a Direct Matrix Converter With Modulated Model-Predictive Control. IEEE Transactions on Industry Applications, 2017, 53, 2342-2349.	3.3	76
5	Reduction of Output Common Mode Voltage Using a Novel SVM Implementation in Matrix Converters for Improved Motor Lifetime. IEEE Transactions on Industrial Electronics, 2014, 61, 5903-5911.	5.2	59
6	Performance Evaluation of a Vector Control Fault-Tolerant Flux-Switching Motor Drive. IEEE Transactions on Industrial Electronics, 2012, , 1-1.	5.2	43
7	Design of a High-Force-Density Tubular Motor. IEEE Transactions on Industry Applications, 2014, 50, 2523-2532.	3.3	43
8	Experimental Efficiency Comparison Between a Direct Matrix Converter and an Indirect Matrix Converter Using Both Si IGBTs and SiC <math>\text{MOSFETs}</math>. IEEE Transactions on Industry Applications, 2016, 52, 4135-4145.	3.3	41
9	Experimental Comparison of a Direct Matrix Converter Using Si IGBT and SiC MOSFETs. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 542-554.	3.7	32
10	High speed electrical generators, application, materials and design. , 2013, , .		31
11	A Hybrid Control Method to Suppress the Three-Time Fundamental Frequency Neutral-Point Voltage Fluctuation in a VIENNA Rectifier. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 468-480.	3.7	31
12	Design Challenges in the Use of Silicon Carbide JFETs in Matrix Converter Applications. IEEE Transactions on Power Electronics, 2014, 29, 2563-2573.	5.4	28
13	Direct Predictive Current-Error Vector Control for a Direct Matrix Converter. IEEE Transactions on Power Electronics, 2019, 34, 1925-1935.	5.4	25
14	Current control and reactive power minimization of a direct matrix converter induction motor drive with Modulated Model Predictive Control. , 2015, , .		22
15	PI controller relay auto-tuning using delay and phase margin in PMSM drives. Chinese Journal of Aeronautics, 2014, 27, 1527-1537.	2.8	19
16	Modulated model predictive current control for direct matrix converter with fixed switching frequency. , 2015, , .		18
17	IEEE ITRW Working Group Position Paper-Packaging and Integration: Unlocking the Full Potential of Wide-Bandgap Devices. IEEE Power Electronics Magazine, 2018, 5, 26-33.	0.6	18
18	Control of a direct matrix converter induction motor drive with modulated model predictive control. , 2015, , .		17

#	ARTICLE	IF	CITATIONS
19	Matrix Converter Protection for More Electric Aircraft Applications. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	16
20	A new mains voltage observer for PMSM drives fed by matrix converters. , 2014, , .		13
21	Matrix Converter Open-Circuit Fault Behavior Analysis and Diagnosis With a Model Predictive Control Strategy. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1831-1839.	3.7	13
22	Fault tolerant four-leg matrix converter drive topologies for aerospace applications. , 2010, , .		11
23	Experimental comparison between direct matrix converter and indirect matrix converter based on efficiency. , 2015, , .		8
24	Highly-integrated power cell for high-power wide band-gap power converters. , 2017, , .		7
25	A power converter for fault tolerant machine development in aerospace applications. , 2008, , .		5
26	A Reliability Comparison of a Matrix Converter and an 18-Pulse Rectifier for Aerospace Applications. , 2006, , .		4
27	High current density air cored Inductors for direct power module integration. , 2014, , .		4
28	Heterogeneous Integration of Magnetic Component Windings on Ceramic Substrates. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3867-3876.	3.7	4
29	A fault-tolerant control scheme for a dual flux-switching permanent magnet motor drive. , 2011, , .		3
30	Matrix converter open circuit behavior analysis. , 2016, , .		3
31	Revisiting the EKF concept for low speed sensorless control of cage induction motors. , 2016, , .		3
32	Indirect matrix converter open circuit fault detection and diagnosis with model predictive control strategy. , 2017, , .		3
33	Matrix converter open circuit fault diagnosis with asymmetric one zero SVM. , 2017, , .		3
34	Experimental comparison of devices thermal cycling in direct matrix converters (DMC) and Indirect Matrix Converters (IMC) using SiC MOSFETs. , 2016, , .		2
35	A low capacitance single-phase AC-DC converter with inherent power ripple decoupling. , 2016, , .		2
36	Differential buck single phase grid connected AC-DC converter with active power decoupling using a flipping capacitor. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
37	A novel manufacturing technique for integrating magnetic components windings on power module substrates. , 2019, , .		2
38	Automated design of integrated inductive components for DC-DC converters. , 2021, , .		2
39	Common mode model of matrix converter. , 2011, , .		1
40	Single Stage Dual Active Bridge AC-DC Converter with Active Power Decoupling. , 2018, , .		1
41	Optimal Integrated Design of a Magnetically Coupled Interleaved H-Bridge. IEEE Transactions on Power Electronics, 2022, 37, 724-737.	5.4	1
42	Advanced Control of Matrix Converter Drive with Active Damping of the Input Resonance. , 2019, , .		0