

Alina Vladescu

List of Publications by Year in descending order

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61
papers

1,149
citations

932766

10
h-index

525886

27
g-index

61
all docs

61
docs citations

61
times ranked

1158
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Three-Phase Transformerless Photovoltaic Inverter Topologies. IEEE Transactions on Power Electronics, 2009, 24, 2202-2211.	5.4	374
2	Space-Vector Modulated Multilevel Matrix Converter. IEEE Transactions on Industrial Electronics, 2010, 57, 3385-3394.	5.2	167
3	Repetitive and Resonant Control for a Single-Phase Grid-Connected Hybrid Cascaded Multilevel Converter. IEEE Transactions on Power Electronics, 2013, 28, 2224-2234.	5.4	90
4	Implementation of a Hybrid AC-AC Direct Power Converter With Unity Voltage Transfer. IEEE Transactions on Power Electronics, 2008, 23, 1918-1926.	5.4	78
5	Novel Integration of Wind Generator-Energy Storage Systems Within Microgrids. IEEE Transactions on Smart Grid, 2012, 3, 728-737.	6.2	67
6	Novel Integration of DFIG-Based Wind Generators Within Microgrids. IEEE Transactions on Energy Conversion, 2011, 26, 840-850.	3.7	54
7	Modelling and control of a multi-stage interleaved DC-DC converter with coupled inductors for supercapacitor energy storage system. IET Power Electronics, 2013, 6, 1360-1375.	1.5	41
8	A New Three-Level Sparse Indirect Matrix Converter. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	28
9	New Methods for the Active Compensation of Unbalanced Supply Voltages for Two-Stage Direct Power Converters. IEEE Transactions on Industry Applications, 2006, 126, 589-598.	0.1	22
10	A New Modulation Method for the Three-Level-Output-Stage Matrix Converter. , 2007, , .		22
11	A Cost-Effective Solution to Power the Gate Drivers of Multilevel Inverters using the Bootstrap Power Supply Technique. , 2009, , .		17
12	Energy Storage System Selection for Optimal Fuel Consumption of Aircraft Hybrid Electric Taxiing Systems. IEEE Transactions on Transportation Electrification, 2021, 7, 1870-1887.	5.3	12
13	A New Three-Level Indirect Matrix Converter with Reduced Number of Switches. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	10
14	A two-stage power converter for welding applications with increased efficiency and reduced filtering. , 2008, , .		9
15	Being a member of an energy community: Assessing the financial benefits for end-users and management authority. , 2017, , .		9
16	Investigations in the Modeling and Control of a Medium-Voltage Hybrid Inverter System That Uses a Low-Voltage/Low-Power Rated Auxiliary Current Source Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 126-140.	3.7	8
17	A Novel Multiport DC-DC Converter for Enhancing the Design and Performance of Battery-Supercapacitor Hybrid Energy Storage Systems for Unmanned Aerial Vehicles. Applied Sciences (Switzerland), 2022, 12, 2767.	1.3	8
18	Hybrid cascaded multilevel converter with integrated series Active Power Filter for interfacing energy storage system to medium voltage grid. , 2010, , .		7

#	ARTICLE	IF	CITATIONS
19	Power Density Optimization of a DC/DC Converter for an Aircraft Supercapacitors Energy Storage. , 2018, , .		7
20	A Novel Modular Multiport Converter for Enhancing the Performance of Photovoltaic-Battery Based Power Systems. Applied Sciences (Switzerland), 2019, 9, 3948.	1.3	7
21	Optimising the structure of a cascaded modular battery system for enhancing the performance of battery packs. Journal of Engineering, 2019, 2019, 3862-3866.	0.6	7
22	Development of a Smart Supercapacitor Energy Storage System for Aircraft Electric Power Systems. Energies, 2021, 14, 8056.	1.6	7
23	A power electronic controlled dump load with negligible harmonics for accurate loading used in testing small wind turbines. , 2010, , .		6
24	Analysis of stability aspects of a large constant power load in a local grid. , 2013, , .		6
25	A New Hybrid Cycloconverter with Smooth Output Voltage Generation Capability and Accurate Control of the Circulating Current. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	5
26	Nine-level SHE-PWM VSC based STATCOM for VAR compensation. , 2010, , .		5
27	A hybrid converter for medium voltage using a low-voltage current source active filter connected via a series capacitor. , 2014, , .		5
28	Dynamic phasor analysis and design of phase-locked loops for single phase grid connected converters. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 1122-1143.	0.5	5
29	New modulation scheme for bidirectional qZS modular multi-level converters. Journal of Engineering, 2019, 2019, 3836-3841.	0.6	5
30	Modulation method for the three-level-output-stage matrix converter under balanced and unbalanced supply condition. , 2007, , .		4
31	Operation principles of quasi Z-source modular multilevel converters. , 2017, , .		4
32	Sizing guidelines for grid-connected decentralised energy storage systems: single house application. Journal of Engineering, 2019, 2019, 3802-3806.	0.6	4
33	A New Two-Stage Voltage Source Inverter with Modulated DC-link Voltage and Reduced Switching Losses. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	3
34	A Hybrid Approach to Improve the Robustness Against Unbalanced Voltage Supply and Cancel the Common Mode Voltage for a 3-ph Buck-Type Rectifier. , 2006, , .		3
35	Assessing the Benefits of Hybrid Cycloconverters. IEEE Transactions on Industrial Electronics, 2012, 59, 47-57.	5.2	3
36	Assessing the accuracy of loss estimation methods for supercapacitor energy storage devices operating under constant power cycling. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
37	Investigating the benefits and limitations of cascaded converter topologies used in modular battery systems. , 2017, , .		3
38	Design Considerations to Optimise Supercapacitor-based Energy Storage Systems for Aerospace Applications. , 2018, , .		3
39	Analysis of Energy Storage System Requirements for Aircraft Electric Taxiing Operations. , 2019, , .		3
40	Experimental evaluation of an energy storage system for medium voltage distribution grids enabling solid state substation functionality. IET Smart Grid, 2021, 4, 190-201.	1.5	3
41	Compact ASD Topologies for Single-Phase Integrated Motor Drives with Sinusoidal Input Current. EPE Journal (European Power Electronics and Drives Journal), 2005, 15, 57-66.	0.7	2
42	Selecting the power electronic interface for a supercapattery based energy storage system. , 2009, , .		2
43	High performance multilevel converter topology for interfacing energy storage systems with medium voltage grids. , 2010, , .		2
44	A hybrid inverter system for medium voltage applications using a low voltage auxiliary CSI. , 2014, , .		2
45	Experimental validation of the solid state substation with embedded energy storage concept. , 2016, , .		2
46	Hybrid inverter arrangements to facilitate reduced switching losses of the main inverter. , 2016, , .		2
47	Experimental validation of a hybrid converter with enhanced switching ripple cancellation. IET Power Electronics, 2016, 9, 2360-2368.	1.5	2
48	Design recommendations for energy systems: A UK energy community study. , 2017, , .		2
49	Experimental Validation of a Quasi-Z-Source Modular Multilevel Converter With DC-Fault Blocking Capability. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1951-1965.	3.7	2
50	Hybrid cycloconverters: An exploration of benefits. , 2007, , .		1
51	Mitigating the effect of series capacitance unbalance on the voltage reduction capability of an auxiliary CSI used as switching ripple active filter. , 2016, , .		1
52	Design and Evaluation of a Power Converter for an Energy Storage System for Aircrafts. , 2018, , .		1
53	Design and evaluation of an energy storage system for helicopters. Journal of Engineering, 2019, 2019, 3665-3670.	0.6	1
54	Integrating a Single Z-Source Network with a Modular Multilevel Converter for Voltage Boosting. , 2019, , .		1

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55	Modelling and Analysis of an Aircraft On-board Electric Taxiing System. , 2019, , .		1
56	An Exploration of Design Options for Integrated Residential PV-ESS. , 2019, , .		1
57	Hybrid power electronic converters: An exploration of benefits. , 2008, , .		0
58	Experimental Evaluation of Hybrid Cycloconverters. , 2009, , .		0
59	Investigation in the PV Converter Smoothing Circuit Size Reduction vs. Loss in Energy Capturing. Applied Mechanics and Materials, 2013, 291-294, 68-73.	0.2	0
60	Modeling and Experimental Evaluation of Z-Source Modular Multilevel Converter Using Reduced Inserted Cells Technique. IEEE Access, 2021, 9, 133091-133101.	2.6	0
61	A Hybrid Approach to Improve the Robustness Against Unbalanced Voltage Supply and Cancel the Common Mode Voltage for a 3-ph Buck-Type Rectifier. , 2006, , .		0