

Alina Vladescu

List of Publications by Year in Descending Order

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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.

50
papers

801
citations

10
h-index

28
g-index

61
ext. papers

1,017
ext. citations

3.6
avg, IF

4.07
L-index

#	Paper	IF	Citations
50	A Novel Multiport DC-DC Converter for Enhancing the Design and Performance of BatterySupercapacitor Hybrid Energy Storage Systems for Unmanned Aerial Vehicles. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2767	2.6	1
49	Development of a Smart Supercapacitor Energy Storage System for Aircraft Electric Power Systems. <i>Energies</i> , 2021 , 14, 8056	3.1	3
48	Experimental evaluation of an energy storage system for medium voltage distribution grids enabling solid-state substation functionality. <i>IET Smart Grid</i> , 2021 , 4, 190-201	2.7	0
47	Experimental Validation of a Quasi-Z-Source Modular Multilevel Converter With DC-Fault Blocking Capability. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 1951-1965	5.6	2
46	Modeling and Experimental Evaluation of Z-Source Modular Multilevel Converter Using Reduced Inserted Cells Technique. <i>IEEE Access</i> , 2021 , 1-1	3.5	
45	Energy Storage System Selection for Optimal Fuel Consumption of Aircraft Hybrid Electric Taxiing Systems. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 1870-1887	7.6	3
44	Sizing guidelines for grid-connected decentralised energy storage systems: single house application. <i>Journal of Engineering</i> , 2019 , 2019, 3802-3806	0.7	4
43	Design and evaluation of an energy storage system for helicopters. <i>Journal of Engineering</i> , 2019 , 2019, 3665-3670	0.7	1
42	A Novel Modular Multiport Converter for Enhancing the Performance of Photovoltaic-Battery Based Power Systems. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3948	2.6	3
41	Integrating a Single Z-Source Network with a Modular Multilevel Converter for Voltage Boosting 2019 ,		1
40	Analysis of Energy Storage System Requirements for Aircraft Electric Taxiing Operations 2019 ,		3
39	Modelling and Analysis of an Aircraft On-board Electric Taxiing System 2019 ,		1
38	New modulation scheme for bidirectional qZS modular multi-level converters. <i>Journal of Engineering</i> , 2019 , 2019, 3836-3841	0.7	4
37	Optimising the structure of a cascaded modular battery system for enhancing the performance of battery packs. <i>Journal of Engineering</i> , 2019 , 2019, 3862-3866	0.7	3
36	Design Considerations to Optimise Supercapacitor-based Energy Storage Systems for Aerospace Applications 2018 ,		2
35	Power Density Optimization of a DC/DC Converter for an Aircraft Supercapacitors Energy Storage 2018 ,		2
34	Being a member of an energy community: Assessing the financial benefits for end-users and management authority 2017 ,		6

33	Operation principles of quasi Z-source modular multilevel converters 2017 ,		4
32	Design recommendations for energy systems: A UK energy community study 2017 ,		1
31	Investigating the benefits and limitations of cascaded converter topologies used in modular battery systems 2017 ,		2
30	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2016 , 4, 126-140	5.6	7
29	Experimental validation of the solid state substation with embedded energy storage concept 2016 ,		2
28	Experimental validation of a hybrid converter with enhanced switching ripple cancellation. <i>IET Power Electronics</i> , 2016 , 9, 2360-2368	2.2	1
27	Dynamic phasor analysis and design of phase-locked loops for single phase grid connected converters. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2015 , 34, 1122-1143	0.7	2
26	2014 ,		1
25	Assessing the accuracy of loss estimation methods for supercapacitor energy storage devices operating under constant power cycling 2014 ,		2
24	Modelling and control of a multi-stage interleaved DCDC converter with coupled inductors for super-capacitor energy storage system. <i>IET Power Electronics</i> , 2013 , 6, 1360-1375	2.2	32
23	Repetitive and Resonant Control for a Single-Phase Grid-Connected Hybrid Cascaded Multilevel Converter. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 2224-2234	7.2	70
22	Investigation in the PV Converter Smoothing Circuit Size Reduction vs. Loss in Energy Capturing. <i>Applied Mechanics and Materials</i> , 2013 , 291-294, 68-73	0.3	
21	Analysis of stability aspects of a large constant power load in a local grid 2013 ,		4
20	Assessing the Benefits of Hybrid Cycloconverters. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 47-57	8.9	1
19	. <i>IEEE Transactions on Smart Grid</i> , 2012 , 3, 728-737	10.7	56
18	. <i>IEEE Transactions on Energy Conversion</i> , 2011 , 26, 840-850	5.4	41
17	Nine-level SHE-PWM VSC based STATCOM for VAR compensation 2010 ,		2
16	Hybrid cascaded multilevel converter with integrated series Active Power Filter for interfacing energy storage system to medium voltage grid 2010 ,		5

15	Space-Vector Modulated Multilevel Matrix Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 3385-3394	8.9	128
14	2010 ,		4
13	High performance multilevel converter topology for interfacing energy storage systems with medium voltage grids 2010 ,		1
12	Evaluation of Three-Phase Transformerless Photovoltaic Inverter Topologies. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 2202-2211	7.2	267
11	A Cost-Effective Solution to Power the Gate Drivers of Multilevel Inverters using the Bootstrap Power Supply Technique 2009 ,		13
10	Selecting the power electronic interface for a supercapattery based energy storage system 2009 ,		1
9	Implementation of a Hybrid AC/AC Direct Power Converter With Unity Voltage Transfer. <i>IEEE Transactions on Power Electronics</i> , 2008 , 23, 1918-1926	7.2	55
8	A two-stage power converter for welding applications with increased efficiency and reduced filtering 2008 ,		6
7	Modulation method for the three-level-output-stage matrix converter under balanced and unbalanced supply condition 2007 ,		2
6	A New Three-Level Indirect Matrix Converter with Reduced Number of Switches. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2007 ,		6
5	A New Modulation Method for the Three-Level-Output-Stage Matrix Converter 2007 ,		13
4	A New Hybrid Cycloconverter with Smooth Output Voltage Generation Capability and Accurate Control of the Circulating Current. <i>Industrial Electronics Society (IECON), Annual Conference of IEEE</i> , 2006 ,		2
3	A New Three-Level Sparse Indirect Matrix Converter. <i>Industrial Electronics Society (IECON), Annual Conference of IEEE</i> , 2006 ,		17
2	New Methods for the Active Compensation of Unbalanced Supply Voltages for Two-Stage Direct Power Converters. <i>IEEE Transactions on Industry Applications</i> , 2006 , 126, 589-598	0.2	9
1	Compact ASD Topologies for Single-Phase Integrated Motor Drives with Sinusoidal Input Current. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2005 , 15, 57-66	0.4	