Alina Vladescu

List of Publications by Citations

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	Evaluation of Three-Phase Transformerless Photovoltaic Inverter Topologies. *IEEE Transactions on Power Electronics*, **2009**, 24, 2202-2211	7.2	267
49	Space-Vector Modulated Multilevel Matrix Converter. *IEEE Transactions on Industrial Electronics*, **2010**, 57, 3385-3394	8.9	128
48	Repetitive and Resonant Control for a Single-Phase Grid-Connected Hybrid Cascaded Multilevel Converter. *IEEE Transactions on Power Electronics*, **2013**, 28, 2224-2234	7.2	70
47	. *IEEE Transactions on Smart Grid*, **2012**, 3, 728-737	10.7	56
46	Implementation of a Hybrid AC–AC Direct Power Converter With Unity Voltage Transfer. *IEEE Transactions on Power Electronics*, **2008**, 23, 1918-1926	7.2	55
45	. *IEEE Transactions on Energy Conversion*, **2011**, 26, 840-850	5.4	41
44	Modelling and control of a multi-stage interleaved DC–DC converter with coupled inductors for super-capacitor energy storage system. *IET Power Electronics*, **2013**, 6, 1360-1375	2.2	32
43	A New Three-Level Sparse Indirect Matrix Converter. *Industrial Electronics Society (IECON), Annual Conference of IEEE*, **2006**,		17
42	A Cost-Effective Solution to Power the Gate Drivers of Multilevel Inverters using the Bootstrap Power Supply Technique **2009**,		13
41	A New Modulation Method for the Three-Level-Output-Stage Matrix Converter **2007**,		13
40	New Methods for the Active Compensation of Unbalanced Supply Voltages for Two-Stage Direct Power Converters. *IEEJ Transactions on Industry Applications*, **2006**, 126, 589-598	0.2	9
39	. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2016**, 4, 126-140	5.6	7
38	Being a member of an energy community: Assessing the financial benefits for end-users and management authority **2017**,		6
37	A two-stage power converter for welding applications with increased efficiency and reduced filtering **2008**,		6
36	A New Three-Level Indirect Matrix Converter with Reduced Number of Switches. *Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)*, **2007**,		6
35	Hybrid cascaded multilevel converter with integrated series Active Power Filter for interfacing energy storage system to medium voltage grid **2010**,		5
34	Sizing guidelines for grid-connected decentralised energy storage systems: single house application. *Journal of Engineering*, **2019**, 2019, 3802-3806	0.7	4

33	Operation principles of quasi Z-source modular multilevel converters **2017**,		4
32	Analysis of stability aspects of a large constant power load in a local grid **2013**,		4
31	**2010**,		4
30	New modulation scheme for bidirectional qZS modular multi-level converters. *Journal of Engineering*, **2019**, 2019, 3836-3841	0.7	4
29	A Novel Modular Multiport Converter for Enhancing the Performance of Photovoltaic-Battery Based Power Systems. *Applied Sciences (Switzerland)*, **2019**, 9, 3948	2.6	3
28	Development of a Smart Supercapacitor Energy Storage System for Aircraft Electric Power Systems. *Energies*, **2021**, 14, 8056	3.1	3
27	Analysis of Energy Storage System Requirements for Aircraft Electric Taxiing Operations **2019**,		3
26	Optimising the structure of a cascaded modular battery system for enhancing the performance of battery packs. *Journal of Engineering*, **2019**, 2019, 3862-3866	0.7	3
25	Energy Storage System Selection for Optimal Fuel Consumption of Aircraft Hybrid Electric Taxiing Systems. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 1870-1887	7.6	3
24	Investigating the benefits and limitations of cascaded converter topologies used in modular battery systems **2017**,		2
23	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	0.7	2
22	Assessing the accuracy of loss estimation methods for supercapacitor energy storage devices operating under constant power cycling **2014**,		2
21	Nine-level SHE-PWM VSC based STATCOM for VAR compensation **2010**,		2
20	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**,		2
19	Modulation method for the three-level-output-stage matrix converter under balanced and unbalanced supply condition **2007**,		2
18	Experimental validation of the solid state substation with embedded energy storage concept **2016**,		2
17	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	5.6	2
16	Design Considerations to Optimise Supercapacitor-based Energy Storage Systems for Aerospace Applications **2018**,		2

15	Power Density Optimization of a DC/DC Converter for an Aircraft Supercapacitors Energy Storage **2018**,		2
14	Design and evaluation of an energy storage system for helicopters. *Journal of Engineering*, **2019**, 2019, 3665-3670	0.7	1
13	Design recommendations for energy systems: A UK energy community study **2017**,		1
12	**2014**,		1
11	Assessing the Benefits of Hybrid Cycloconverters. *IEEE Transactions on Industrial Electronics*, **2012**, 59, 47-57	8.9	1
10	Selecting the power electronic interface for a supercapattery based energy storage system **2009**,		1
9	High performance multilevel converter topology for interfacing energy storage systems with medium voltage grids **2010**,		1
8	Experimental validation of a hybrid converter with enhanced switching ripple cancellation. *IET Power Electronics*, **2016**, 9, 2360-2368	2.2	1
7	Integrating a Single Z-Source Network with a Modular Multilevel Converter for Voltage Boosting **2019**,		1
6	Modelling and Analysis of an Aircraft On-board Electric Taxiing System **2019**,		1
5	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	2.6	1
4	Experimental evaluation of an energy storage system for medium voltage distribution grids enabling solid-state substation functionality. *IET Smart Grid*, **2021**, 4, 190-201	2.7	0
3	Investigation in the PV Converter Smoothing Circuit Size Reduction vs. Loss in Energy Capturing. *Applied Mechanics and Materials*, **2013**, 291-294, 68-73	0.3	
2	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	0.4	
1	Modeling and Experimental Evaluation of Z-Source Modular Multilevel Converter Using Reduced Inserted Cells Technique. *IEEE Access*, **2021**, 1-1	3.5	