Marcos Blanco

List of Publications by Year
in descending order

36 papers	**340** citations	932766 **10** h-index	940134 **16** g-index
36 all docs	**36** docs citations	**36** times ranked	**308** citing authors

#	Article	IF	Citations
1	Present and Future of Supercapacitor Technology Applied to Powertrains, Renewable Generation and Grid Connection Applications. Energies, 2021, 14, 3060.	1.6	47
2	Emulation of an OWC Ocean Energy Plant With PMSG and Irregular Wave Model. IEEE Transactions on Sustainable Energy, 2015, 6, 1515-1523.	5.9	27
3	Fast Energy Storage Systems Comparison in Terms of Energy Efficiency for a Specific Application. IEEE Access, 2018, 6, 40656-40672.	2.6	24
4	Design Parameters Analysis of Point Absorber WEC via an evolutionary-algorithm-based Dimensioning Tool. Energies, 2015, 8, 11203-11233.	1.6	21
5	Energy Management in solar photovoltaic plants based on ESS. , 2008, , .		19
6	Dimensioning of Point Absorbers for Wave Energy Conversion by Means of Differential Evolutionary Algorithms. IEEE Transactions on Sustainable Energy, 2019, 10, 1076-1085.	5.9	18
7	Development and Experimental Validation of a Supercapacitor Frequency Domain Model for Industrial Energy Applications Considering Dynamic Behaviour at High Frequencies. Energies, 2020, 13, 1156.	1.6	17
8	Comparison and Influence of Flywheels Energy Storage System Control Schemes in the Frequency Regulation of Isolated Power Systems. IEEE Access, 2022, 10, 37892-37911.	2.6	16
9	Power Supply Solution for Ultrahigh Speed Hyperloop Trains. Smart Cities, 2020, 3, 642-656.	5.5	12
10	Wave farms grid code compliance in isolated small power systems. IET Renewable Power Generation, 2019, 13, 171-179.	1.7	11
11	Educational Project for the Teaching of Control of Electric Traction Drives. Energies, 2015, 8, 921-938.	1.6	10
12	Switched Reluctance Drives with Degraded Mode for Electric Vehicles. , 0, , .		10
13	Dimensioning methodology for energy storage devices and wave energy converters supplying isolated loads. IET Renewable Power Generation, 2016, 10, 1468-1476.	1.7	10
14	Power smoothing system for wave energy converters by means of a supercapacitor-based energy storage system. , 2015, , .		8
15	Design methodology of a high speed switched reluctance generator drive for aircrafts. , 2016, , .		8
16	New Type of Linear Switched Reluctance Generator for Wave Energy Applications. IEEE Transactions on Applied Superconductivity, 2020, , 1-1.	1.1	8
17	Dimensioning Methodology of Energy Storage Systems for Power Smoothing in a Wave Energy Conversion Plant Considering Efficiency Maps and Filtering Control Techniques. Energies, 2020, 13, 3380.	1.6	7
18	Dimensioning Methodology of an Energy Storage System Based on Supercapacitors for Grid Code Compliance of a Wave Power Plant. Energies, 2021, 14, 985.	1.6	7

#	Article	IF	Citations
19	Asymmetrical Rotor Skewing Optimization in Switched Reluctance Machines Using Differential Evolutionary Algorithm. Energies, 2021, 14, 3194.	1.6	7
20	Passenger Exposure to Magnetic Fields in Electric Vehicles. , 0, , .		6
21	Robust control of a floating OWC WEC under open–switch fault condition in one or in both VSCs. IET Renewable Power Generation, 2020, 14, 2538-2549.	1.7	6
22	Multifunctional test bench for the emulation and testing of electric vehicle fast-charging from urban railway power lines. , 2015, , .		5
23	Technology description and characterization of a low-cost flywheel for energy management in microgrids. , 2015, , .		5
24	Non–linear vector current source for the control of permanent magnet synchronous generators in wave energy applications. IET Renewable Power Generation, 2019, 13, 2409-2417.	1.7	5
25	Wave energy converter dimensioning constrained by location, power take-off and control strategy. , 2012, , .		4
26	Battery Energy Storage System Dimensioning for Reducing the Fixed Term of the Electricity Access Rate in Industrial Consumptions. Applied Sciences (Switzerland), 2021, 11, 7395.	1.3	4
27	Recent Advances in Direct-Drive Power Take-Off (DDPTO) Systems for Wave Energy Converters Based on Switched Reluctance Machines (SRM). Ocean Engineering & Oceanography, 2022, , 487-532.	0.1	4
28	Dual multivector model predictive control for the power converters of a floating OWC WEC. International Journal of Electrical Power and Energy Systems, 2021, 133, 107263.	3.3	4
29	Development of a laboratory test bench for the emulation of wave energy converters. , 2015, , .		3
30	Concept Design of a Novel Superconducting PTO Actuator for Wave Energy Extraction. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	3
31	Meta–heuristic optimisation approach for wave energy converter design by means of a stochastic hydrodynamic model. IET Renewable Power Generation, 2021, 15, 548-561.	1.7	1
32	Grid Integration of Wave Energy Devices. Ocean Engineering & Oceanography, 2022, , 533-578.	0.1	1
33	Energy Storage Systems for Power Supply of Ultrahigh Speed Hyperloop Trains. Communications in Computer and Information Science, 2020, , 244-255.	0.4	1
34	Design and Control of a Modular Power Electronic Back-to-Back Converter for Wave Energy Harvesting Applications. , 2020, , .		1
35	Laboratory tests before sea trials of a wave energy converter. , 2015, , .		0
36	Design and Testing of a Modular Back-to-Back Power Electronics Converter for Wave Energy Harvesting. , 2021, , .		0