Dionisio Ramirez

List of Publications by Year
in descending order

49 papers	915 citations	471509 17 h-index	454955 30 g-index
49 all docs	49 docs citations	49 times ranked	965 citing authors

#	Article	IF	Citations
1	Model Predictive Control for PMSG-Based Wind Turbines With Overmodulation and Adjustable Dynamic Response Time. IEEE Transactions on Industrial Electronics, 2022, 69, 1573-1585.	7.9	13
2	Multivector Model Predictive Power Control for Grid Connected Converters in Renewable Power Plants. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1466-1478.	5.4	16
3	Procedure for the Determination of the Student Workload and the Learning Environment Created in the Power Electronics Course Taught Through Project-Based Learning. IEEE Transactions on Education, 2022, 65, 428-439.	2.4	6
4	Switch Fault Tolerant Model-Based Predictive Control of a VSC Connected to the Grid. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 949-960.	5.4	7
5	SMOOTHING OF THE INTERMITTENT POWER PROVIDED BY WAVE POWER PLANTS USING ULTRACAPACITORS AND A NON-LINEAR VECTOR CURRENT CONTROLLED MMC. Dyna (Spain), 2021, 96, 61-66.	0.2	0
6	Metaâ€heuristic optimisation approach for wave energy converter design by means of a stochastic hydrodynamic model. IET Renewable Power Generation, 2021, 15, 548-561.	3.1	1
7	Linear multiâ€vector modelâ€based predictive control for grid side converters of renewable power plants under severe grid disturbances. IET Renewable Power Generation, 2021, 15, 964-979.	3.1	0
8	Dimensioning Methodology of an Energy Storage System Based on Supercapacitors for Grid Code Compliance of a Wave Power Plant. Energies, 2021, 14, 985.	3.1	7
9	Connection System for Small and Medium-Size Wind Generators through the Integration in an MMC and NLC Modulation. Energies, 2021, 14, 2681.	3.1	1
10	Sensitivity analysis of loss resistances variations of PV generators applied to the assessment of maximum power point changes due to degradation. Renewable Energy, 2021, 173, 351-361.	8.9	2
11	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.	5.5	4
12	Three-Phase Four-Switch Converter for SPMS Generators Based on Model Predictive Current Control for Wave Energy Applications. IEEE Transactions on Power Electronics, 2020, 35, 289-302.	7.9	25
13	Predictive Direct Control of SPMS Generators Applied to the Machine Side Converter of an OWC Power Plant. IEEE Transactions on Power Electronics, 2020, 35, 6719-6731.	7.9	9
14	Fast Model-based Predictive Control (FMPC) for grid connected Modular Multilevel Converters (MMC). International Journal of Electrical Power and Energy Systems, 2020, 119, 105951.	5.5	21
15	Robust control of a floating OWC WEC under openâ€switch fault condition in one or in both VSCs. IET Renewable Power Generation, 2020, 14, 2538-2549.	3.1	6
16	Predictive control of a permanent magnet synchronous generator connected to an MMC converter in an oscillating water column based power plant. IET Renewable Power Generation, 2020, 14, 275-285.	3.1	3
17	Dimensioning of Point Absorbers for Wave Energy Conversion by Means of Differential Evolutionary Algorithms. IEEE Transactions on Sustainable Energy, 2019, 10, 1076-1085.	8.8	18
18	MMC as nonlinear vector current source for grid connection of wave energy generation. International Journal of Electrical Power and Energy Systems, 2019, 113, 686-698.	5.5	8

#	Article	IF	Citations
19	Blackbox Large-Signal Modeling of Grid-Connected DC-AC Electronic Power Converters. Energies, 2019, 12, 989.	3.1	14
20	Nonâ€linear vector current source for the control of permanent magnet synchronous generators in wave energy applications. IET Renewable Power Generation, 2019, 13, 2409-2417.	3.1	5
21	Four-Switch Three-Phase Operation of Grid-Side Converter of Doubly Fed Induction Generator With Three Vectors Predictive Direct Power Control Strategy. IEEE Transactions on Industrial Electronics, 2019, 66, 7741-7752.	7.9	26
22	CYBER SECURITY IN INFRASTRUCTURES. APPLICATION TO THE COMPONENTS OF A SMART GRID. Dyna (Spain), 2019, 94, 518-522.	0.2	0
23	Development System for Wireless Control Applied to Renewable Power Plants. IEEE Transactions on Sustainable Energy, 2018, 9, 1328-1336.	8.8	6
24	Calculation of the number of modules and the switching frequency of a modular multilevel converter using near level control. Electric Power Systems Research, 2018, 165, 68-83.	3.6	6
25	Assessment of a non linear current control technique applied to MMC-HVDC during grid disturbances. Renewable Energy, 2017, 101, 945-963.	8.9	23
26	Modular Multilevel Converters: Control and Applications. Energies, 2017, 10, 1709.	3.1	76
27	A novel educational proposal: Devising an electric power system. , 2016, , .		0
28	Comparison of current control strategies applied to a boost-rectifier connected to a direct drive wave energy converter. , 2015, , .		2
29	Design Parameters Analysis of Point Absorber WEC via an evolutionary-algorithm-based Dimensioning Tool. Energies, 2015, 8, 11203-11233.	3.1	21
30	Design considerations for a voltage-boosting DC-AC Modular Multilevel Converter. , 2015, , .		2
31	STATCOM Control Strategies. Power Systems, 2015, , 147-186.	0.5	3
32	Emulation of an OWC Ocean Energy Plant With PMSG and Irregular Wave Model. IEEE Transactions on Sustainable Energy, 2015, 6, 1515-1523.	8.8	27
33	Impacts of Electric Mobility on the Electric Grid. Advances in Data Mining and Database Management Book Series, 2014, , 319-339.	0.5	1
34	The Evolution from Electric Grid to Smart Grid. Advances in Data Mining and Database Management Book Series, 2014, , 259-281.	0.5	0
35	Use of STATCOM in wind farms with fixed-speed generators for grid code compliance. Renewable Energy, 2012, 37, 202-212.	8.9	46
36	Improvements in the grid connection of renewable generators with full power converters. Renewable Energy, 2012, 43, 90-100.	8.9	25

#	Article	IF	Citations
37	Influence of Rotor Position in FRA Response for Detection of Insulation Failures in Salient-Pole Synchronous Machines. IEEE Transactions on Energy Conversion, 2011, 26, 671-676.	5.2	28
38	Computer-Based Simulation and Scaled Laboratory Bench System for the Teaching and Training of Engineers on the Control of Doubly Fed Induction Wind Generators. IEEE Transactions on Power Systems, 2011, 26, 1534-1543.	6.5	29
39	Low-Voltage Ride-Through Capability for Wind Generators Based on Dynamic Voltage Restorers. IEEE Transactions on Energy Conversion, 2011, 26, 195-203.	5.2	94
40	Voltage dip generator for testing wind turbines connected to electrical networks. Renewable Energy, 2011, 36, 1588-1594.	8.9	14
41	Accurate and fast convergence method for parameter estimation of PV generators based on three main points of the Iâ€“V curve. Renewable Energy, 2011, 36, 2972-2977.	8.9	99
42	Simple estimation of PV modules loss resistances for low error modelling. Renewable Energy, 2010, 35, 1103-1108.	8.9	101
43	Characterization of the Rotor Magnetic Field in a Brushless Doubly-Fed Induction Machine. IEEE Transactions on Energy Conversion, 2009, 24, 599-607.	5.2	45
44	Distributed generation system with PEM fuel cell for electrical power quality improvement. International Journal of Hydrogen Energy, 2008, 33, 4433-4443.	7.1	39
45	Adaptation of Floating Point DSP-Based Technology for Small Variable-Speed Wind Turbine. IEEE Transactions on Energy Conversion, 2007, 22, 376-382.	5.2	9
46	Optimal Regulation of Electric Drives With Constant Load Torque. IEEE Transactions on Industrial Electronics, 2006, 53, 1762-1769.	7.9	12
47	Brushless Doubly-Fed Asynchronous Generator Model for Variable Speed Wind Generation Systems. Renewable Energy and Power Quality Journal, 2005, 1, 320-327.	0.2	0
48	Guidelines for the design and control of electrical generator systems for new grid connected wind turbine generators. , 0, , .		11
49	Analysis of the impact of charging of Plug-in Hybrid and Electric Vehicles in Spain. Renewable Energy and Power Quality Journal, 0, , 1457-1462.	0.2	4