

Daniel Gonzalez Montoya

List of Publications by Year in descending order

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papers

705
citations

758635

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h-index

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all docs

45
docs citations

45
times ranked

622
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved Design of Sliding-Mode Controllers Based on the Requirements of MPPT Techniques. IEEE Transactions on Power Electronics, 2016, 31, 235-247.	5.4	120
2	Optimal Sizing and Location of Distributed Generators Based on PBIL and PSO Techniques. Energies, 2018, 11, 1018.	1.6	85
3	Linear power flow formulation for low-voltage DC power grids. Electric Power Systems Research, 2018, 163, 375-381.	2.1	80
4	Maximum power point tracking of photovoltaic systems based on the sliding mode control of the module admittance. Electric Power Systems Research, 2016, 136, 125-134.	2.1	58
5	Minimizing the effects of shadowing in a PV module by means of active voltage sharing. , 2010, , .		42
6	Modeling of Step-up Grid-Connected Photovoltaic Systems for Control Purposes. Energies, 2012, 5, 1900-1926.	1.6	41
7	Sliding-Mode Control of a Charger/Discharger DC/DC Converter for DC-Bus Regulation in Renewable Power Systems. Energies, 2016, 9, 245.	1.6	38
8	General modeling procedure for photovoltaic arrays. Electric Power Systems Research, 2018, 155, 67-79.	2.1	27
9	Control of a Charger/Discharger DC/DC Converter with Improved Disturbance Rejection for Bus Regulation. Energies, 2018, 11, 594.	1.6	24
10	Energy Management in PV Based Microgrids Designed for the Universidad Nacional de Colombia. Sustainability, 2020, 12, 1219.	1.6	18
11	Charging/discharging system based on zeta/sepic converter and a sliding mode controller for dc bus voltage regulation. IET Power Electronics, 2020, 13, 1514-1527.	1.5	16
12	Design Method of Dual Active Bridge Converters for Photovoltaic Systems with High Voltage Gain. Energies, 2020, 13, 1711.	1.6	15
13	Systematic analysis of control techniques for the dual active bridge converter in photovoltaic applications. International Journal of Circuit Theory and Applications, 2021, 49, 3031-3052.	1.3	14
14	Design and Control of a Buck-Boost Charger-Discharger for DC-Bus Regulation in Microgrids. Energies, 2017, 10, 1847.	1.6	13
15	A Procedure for Modeling Photovoltaic Arrays under Any Configuration and Shading Conditions. Energies, 2018, 11, 767.	1.6	12
16	Estimation of the parameters of the mathematical model of an equivalent diode of a photovoltaic panel using a continuous genetic algorithm. IEEE Latin America Transactions, 2022, 20, 616-623.	1.2	12
17	Charger/discharger DC/DC converter with interleaved configuration for DC-bus regulation and battery protection. Energy Science and Engineering, 2020, 8, 530-543.	1.9	10
18	Sliding-Mode Control of Distributed Maximum Power Point Tracking Converters Featuring Overvoltage Protection. Energies, 2018, 11, 2220.	1.6	8

#	ARTICLE	IF	CITATIONS
19	Reconfiguration of photovoltaic arrays based on genetic algorithm. Revista Facultad De IngenierÃa, 2015, , .	0.5	7
20	A Non-Invasive Procedure for Estimating the Exponential Model Parameters of Bypass Diodes in Photovoltaic Modules. Energies, 2019, 12, 303.	1.6	7
21	Modeling of full Photovoltaic Systems Applied to Advanced Control Strategies. Renewable Energy and Power Quality Journal, 2010, 1, 1530-1435.	0.2	7
22	PV Array Reconfiguration Based on Genetic Algorithm for Maximum Power Extraction and Energy Impact Analysis. Sustainability, 2022, 14, 3764.	1.6	7
23	Fixed-frequency implementation of sliding-mode controllers for photovoltaic systems. International Journal of Energy and Environmental Engineering, 2019, 10, 287-305.	1.3	6
24	Sliding-mode control of a CuK converter for voltage regulation of a dc-bus. Sustainable Energy Technologies and Assessments, 2020, 42, 100807.	1.7	6
25	Control-Oriented Model of Photovoltaic Systems Based on a Dual Active Bridge Converter. Sustainability, 2021, 13, 7689.	1.6	5
26	Design method of the perturb and observe controller parameters for photovoltaic applications. , 2012, , .		4
27	Modeling and control of grid-connected photovoltaic systems for 100 Hz oscillations mitigation. , 2011, , .		3
28	A new solution of maximum power point tracking based on sliding mode control. , 2013, , .		3
29	Model of series-parallel photovoltaic arrays designed for parallel computing. , 2017, , .		3
30	A Solution of Implicit Model of Series-Parallel Photovoltaic Arrays by Using Deterministic and Metaheuristic Global Optimization Algorithms. Energies, 2020, 13, 801.	1.6	3
31	Current equalization of mismatched PV panels based on a capacitor energy storage. , 2018, , .		2
32	Modelo matemÃtico de sistemas fotovoltaicos para bÃsqueda distribuida del punto de mÃxima potencia. Tecno LÃgicas, 2016, 19, 107.	0.1	2
33	AnÃlisis de factibilidad tÃcnico-econÃmico de microrredes que integran celdas de combustible en zonas no interconectadas de Colombia. Tecno LÃgicas, 2018, 21, 71-89.	0.1	2
34	Predictive control of a photovoltaic DC/DC converter. , 2012, , .		1
35	DiseÃo y control digital de un convertidor elevador entrelazado para sistemas de carga/descarga de baterÃas. Tecno LÃgicas, 2021, 24, e1556.	0.1	1
36	Sliding-mode controller for a photovoltaic system based on a Cuk converter. International Journal of Electrical and Computer Engineering, 2021, 11, 2027.	0.5	1

#	ARTICLE	IF	CITATIONS
37	Análisis de la estabilidad de alto orden de un convertidor buck entrelazado basado en el método de Filippov. Tecno Lógicas, 2017, 20, 55.	0.1	1
38	Reconfiguración de paneles fotovoltaicos para reducción del consumo de hidrógeno en las celdas de combustible de sistemas híbridos. Tecno Lógicas, 2017, 20, 83-97.	0.1	1
39	Automatic Parameters Calculation of Controllers for Photovoltaic dc/dc Converters. Lecture Notes in Electrical Engineering, 2011, , 431-440.	0.3	0
40	Maximum power point tracking based on the sliding mode control of the average PV admittance. , 2014, , .		0
41	Reducing the Fuel Consumption of Hybrid Fuel Cell/Photovoltaic Power Systems Using PBIL-Based Reconfiguration. , 2015, , .		0
42	Reconfiguration of Photovoltaic Arrays Based on a GPU-Accelerated Exhaustive Search Algorithm. , 2015, , .		0
43	Advances in Power and Energy Systems. Tecno Lógicas, 2018, 21, 9-11.	0.1	0
44	Emulación de una turbina de viento con MPPT en tiempo real. Revista Ingenierías Universidad De Medellín, 2019, 18, 163-183.	0.1	0
45	Matlab/Simulink Interface Design and Implementation for PV Arrays Reconfiguration. Lecture Notes in Electrical Engineering, 2020, , 473-486.	0.3	0