

Ca Ramos-Paja

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104
papers

2,215
citations

27
h-index

45
g-index

119
ext. papers

2,723
ext. citations

3.2
avg, IF

5.35
L-index

#	Paper	IF	Citations
104	Grid-Connected Photovoltaic Generation Plants: Components and Operation. <i>IEEE Industrial Electronics Magazine</i> , 2013 , 7, 6-20	6.2	294
103	. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 1168-1178	8.9	136
102	Maximum power point tracking architectures for photovoltaic systems in mismatching conditions: a review. <i>IET Power Electronics</i> , 2014 , 7, 1396-1413	2.2	114
101	Perturb and Observe MPPT algorithm with a current controller based on the sliding mode. <i>International Journal of Electrical Power and Energy Systems</i> , 2013 , 44, 346-356	5.1	94
100	Modeling of photovoltaic fields in mismatched conditions for energy yield evaluations. <i>Electric Power Systems Research</i> , 2011 , 81, 1003-1013	3.5	92
99	Minimum Fuel Consumption Strategy for PEM Fuel Cells. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 685-696	8.9	90
98	Improved Design of Sliding-Mode Controllers Based on the Requirements of MPPT Techniques. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 235-247	7.2	76
97	A genetic algorithm for identifying the single diode model parameters of a photovoltaic panel. <i>Mathematics and Computers in Simulation</i> , 2017 , 131, 38-54	3.3	72
96	A PEM Fuel-Cell Model Featuring Oxygen-Excess-Ratio Estimation and Power-Electronics Interaction. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 1914-1924	8.9	65
95	Optimal Sizing and Location of Distributed Generators Based on PBIL and PSO Techniques. <i>Energies</i> , 2018 , 11, 1018	3.1	59
94	Control of Photovoltaic Arrays: Dynamical Reconfiguration for Fighting Mismatched Conditions and Meeting Load Requests. <i>IEEE Industrial Electronics Magazine</i> , 2015 , 9, 62-76	6.2	55
93	Linear power flow formulation for low-voltage DC power grids. <i>Electric Power Systems Research</i> , 2018 , 163, 375-381	3.5	54
92	A model of photovoltaic fields in mismatching conditions featuring an improved calculation speed. <i>Electric Power Systems Research</i> , 2013 , 96, 81-90	3.5	51
91	A perturbation strategy for fuel consumption minimization in polymer electrolyte membrane fuel cells: Analysis, Design and FPGA implementation. <i>Applied Energy</i> , 2014 , 119, 21-32	10.7	48
90	Maximum power point tracking of photovoltaic systems based on the sliding mode control of the module admittance. <i>Electric Power Systems Research</i> , 2016 , 136, 125-134	3.5	46
89	A technique for mismatched PV array simulation. <i>Renewable Energy</i> , 2013 , 55, 417-427	8.1	46
88	Model-Based Degradation Analysis of Photovoltaic Modules Through Series Resistance Estimation. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 7256-7265	8.9	44

87	2017,		42
86	Reconfiguration analysis of photovoltaic arrays based on parameters estimation. <i>Simulation Modelling Practice and Theory</i> , 2013 , 35, 50-68	3.9	38
85	. <i>IEEE Journal of Photovoltaics</i> , 2016 , 6, 1210-1220	3.7	34
84	Mathematical analysis of hybrid topologies efficiency for PEM fuel cell power systems design. <i>International Journal of Electrical Power and Energy Systems</i> , 2010 , 32, 1049-1061	5.1	33
83	An energy management system for optimal operation of BSS in DC distributed generation environments based on a parallel PSO algorithm. <i>Journal of Energy Storage</i> , 2020 , 29, 101488	7.8	33
82	Modeling of Step-up Grid-Connected Photovoltaic Systems for Control Purposes. <i>Energies</i> , 2012 , 5, 1900-1926	3.1	31
81	Sliding-Mode Controller for Maximum Power Point Tracking in Grid-Connected Photovoltaic Systems. <i>Energies</i> , 2015 , 8, 12363-12387	3.1	30
80	Fuel cell emulator for oxygen excess ratio estimation on power electronics applications. <i>Computers and Electrical Engineering</i> , 2012 , 38, 926-937	4.3	29
79	Minimizing the effects of shadowing in a PV module by means of active voltage sharing 2010 ,		28
78	Asymmetrical Interleaved DC/DC Switching Converters for Photovoltaic and Fuel Cell Applications Part 1: Circuit Generation, Analysis and Design. <i>Energies</i> , 2012 , 5, 4590-4623	3.1	27
77	Sliding-Mode Control of a Charger/Discharger DC/DC Converter for DC-Bus Regulation in Renewable Power Systems. <i>Energies</i> , 2016 , 9, 245	3.1	27
76	A method for simulating large PV arrays that include reverse biased cells. <i>Applied Energy</i> , 2014 , 123, 157-167	3.1	22
75	Granular control of photovoltaic arrays by means of a multi-output Maximum Power Point Tracking algorithm. <i>Progress in Photovoltaics: Research and Applications</i> , 2012 , 21, n/a-n/a	6.8	21
74	Quantification of photovoltaic module degradation using model based indicators. <i>Mathematics and Computers in Simulation</i> , 2017 , 131, 101-113	3.3	20
73	General modeling procedure for photovoltaic arrays. <i>Electric Power Systems Research</i> , 2018 , 155, 67-79	3.5	19
72	Reconfiguration of Urban Photovoltaic Arrays Using Commercial Devices. <i>Energies</i> , 2016 , 9, 2	3.1	19
71	Control of a Charger/Discharger DC/DC Converter with Improved Disturbance Rejection for Bus Regulation. <i>Energies</i> , 2018 , 11, 594	3.1	18
70	PV field distributed maximum power point tracking by means of an active bypass converter 2011 ,		18

69	Photovoltaic modules diagnostic: An overview 2013 ,		16
68	Identification of excitation systems with the generator online. <i>Electric Power Systems Research</i> , 2012 , 87, 1-9	3.5	14
67	Fuel cell MPPT for fuel consumption optimization 2010 ,		14
66	Integrated Learning Platform for Internet-Based Control-Engineering Education. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 3284-3296	8.9	14
65	A multivariable MPPT algorithm for granular control of photovoltaic systems 2010 ,		13
64	Fuzzy-based modelling technique for PEMFC electrical power generation systems emulation. <i>IET Power Electronics</i> , 2009 , 2, 241-255	2.2	13
63	Energy Management in PV Based Microgrids Designed for the Universidad Nacional de Colombia. <i>Sustainability</i> , 2020 , 12, 1219	3.6	12
62	DC/DC pre-regulator for input current ripple reduction and efficiency improvement. <i>Electric Power Systems Research</i> , 2011 , 81, 2048-2055	3.5	11
61	Charging/discharging system based on zeta/sepic converter and a sliding mode controller for dc bus voltage regulation. <i>IET Power Electronics</i> , 2020 , 13, 1514-1527	2.2	10
60	A Procedure for Modeling Photovoltaic Arrays under Any Configuration and Shading Conditions. <i>Energies</i> , 2018 , 11, 767	3.1	9
59	A method for the fast estimation of the maximum power points in mismatched PV strings. <i>Electric Power Systems Research</i> , 2015 , 121, 115-125	3.5	9
58	Asymmetrical Interleaved DC/DC Switching Converters for Photovoltaic and Fuel Cell Applications Part 2: Control-Oriented Models. <i>Energies</i> , 2013 , 6, 5570-5596	3.1	9
57	Calculation of excitation system controllers to fulfill IEEE standard performance indexes. <i>Electric Power Systems Research</i> , 2012 , 89, 196-203	3.5	8
56	Design and Control of a BuckBoost Charger-Discharger for DC-Bus Regulation in Microgrids. <i>Energies</i> , 2017 , 10, 1847	3.1	8
55	A fast current-based MPPT technique based on sliding mode control 2011 ,		8
54	Enhanced simulation of total cross tied photovoltaic arrays. <i>Mathematics and Computers in Simulation</i> , 2019 , 158, 49-64	3.3	7
53	A Non-Invasive Procedure for Estimating the Exponential Model Parameters of Bypass Diodes in Photovoltaic Modules. <i>Energies</i> , 2019 , 12, 303	3.1	6
52	Design Method of Dual Active Bridge Converters for Photovoltaic Systems with High Voltage Gain. <i>Energies</i> , 2020 , 13, 1711	3.1	6

51	Hybrid Metaheuristic Optimization Methods for Optimal Location and Sizing DGs in DC Networks. <i>Communications in Computer and Information Science</i> , 2019 , 214-225	0.3	6
50	Optimal Location and Sizing of Distributed Generators in DC Networks Using a Hybrid Method Based on Parallel PBIL and PSO. <i>Electronics (Switzerland)</i> , 2020 , 9, 1808	2.6	5
49	2017 ,		5
48	Switching and linear power stages evaluation for PEM fuel cell emulation. <i>International Journal of Circuit Theory and Applications</i> , 2011 , 39, 475-499	2	5
47	Charger/discharger DC/DC converter with interleaved configuration for DC-bus regulation and battery protection. <i>Energy Science and Engineering</i> , 2020 , 8, 530-543	3.4	5
46	Sliding-Mode Control of Distributed Maximum Power Point Tracking Converters Featuring Overvoltage Protection. <i>Energies</i> , 2018 , 11, 2220	3.1	5
45	Reconfiguration of photovoltaic arrays based on genetic algorithm. <i>Revista Facultad De Ingeniería</i> , 2015 ,	1	4
44	DCM operation of interleaved DC/DC converters for PV applications 2012 ,		4
43	Estimating the produced power by photovoltaic installations in shaded environments. <i>DYNA (Colombia)</i> , 2015 , 82, 37-43	0.6	4
42	Design and Control of a Battery Charger/Discharger Based on the Flyback Topology. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10506	2.6	4
41	Control-Oriented Model of Photovoltaic Systems Based on a Dual Active Bridge Converter. <i>Sustainability</i> , 2021 , 13, 7689	3.6	4
40	The Role of Renewable Energy System in Reshaping the Electrical Grid Scenario. <i>IEEE Open Journal of the Industrial Electronics Society</i> , 2021 , 2, 451-468	3.6	4
39	Fixed-frequency implementation of sliding-mode controllers for photovoltaic systems. <i>International Journal of Energy and Environmental Engineering</i> , 2019 , 10, 287-305	4	3
38	A new solution of maximum power point tracking based on sliding mode control 2013 ,		3
37	2010 ,		3
36	Evaluation of Fixed-Step Differential Equations Solution Methods for Fuel Cell Real-Time Simulation 2007 ,		3
35	Mathematical Model for Regular and Irregular PV Arrays with Improved Calculation Speed. <i>Sustainability</i> , 2020 , 12, 10684	3.6	3
34	Systematic analysis of control techniques for the dual active bridge converter in photovoltaic applications. <i>International Journal of Circuit Theory and Applications</i> , 2021 , 49, 3031-3052	2	3

33	Design method of the perturb and observe controller parameters for photovoltaic applications 2012,		2
32	Compensation of DC-link voltage oscillations in grid-connected PV systems based on high order dc/dc converters 2012,		2
31	Improving the perturb and observe Maximum Power Point Tracking by using Sliding Mode control 2011,		2
30	Modeling and control of grid-connected photovoltaic systems for 100 Hz oscillations mitigation 2011,		2
29	A low-cost system for real-time measuring of the sunlight incident angle using IoT.. <i>HardwareX,</i> 2022, 11, e00272	2.7	2
28	Parameter Estimation of the Bishop Photovoltaic Model Using a Genetic Algorithm. <i>Applied Sciences (Switzerland),</i> 2022, 12, 2927	2.6	2
27	Adaptive Sliding-Mode Controller for Flyback-Based PV Systems Featuring Constant Switching Frequency. <i>Mathematics,</i> 2022, 10, 1255	2.3	2
26	PV Simulation under Homogeneous Conditions 2017, 45-80		1
25	Optimal Power Dispatch of Small-Scale Standalone Microgrid Located in Colombian Territory. <i>Energies,</i> 2018, 11, 1877	3.1	1
24	Auto-tuning of PV controllers to improve the speed response and stability of the P&O algorithm. <i>Ingenieria E Investigacion,</i> 2015, 35, 5-12	0.3	1
23	Maximum power point tracking in PV systems based on adaptive control and sliding mode control. <i>Revista Facultad De Ingeniería,</i> 2015,	1	1
22	Fast estimation of MPPs in mismatched PV arrays based on lossless model 2015,		1
21	Predictive control of a photovoltaic DC/DC converter 2012,		1
20	Modeling of photovoltaic fields in mismatching conditions by means of inflection voltages 2012,		1
19	Sliding-Mode Control of a Photovoltaic System Based on a Flyback Converter for Microinverter Applications. <i>Applied Sciences (Switzerland),</i> 2022, 12, 1399	2.6	1
18	Improved modelling of bypass diodes for photovoltaic applications. <i>AEJ - Alexandria Engineering Journal,</i> 2022, 61, 6261-6273	6.1	1
17	Overvoltage Protection for Distributed Maximum Power Point Tracking Converters in Series Connection. <i>Communications in Computer and Information Science,</i> 2016, 308-319	0.3	1
16	Optimal Allocation and Sizing of PV Generation Units in Distribution Networks via the Generalized Normal Distribution Optimization Approach. <i>Computers,</i> 2022, 11, 53	1.9	1

15	Low-cost system for sunlight incidence angle measurement using optical fiber.. <i>HardwareX</i> , 2022 , 11, e00302	2.7	1
14	Co-Design of the Control and Power Stages of a Boost-Based Rectifier with Power Factor Correction Depending on Performance Criteria. <i>Computation</i> , 2022 , 10, 61	2.2	1
13	Non-linear controller for storage systems with regulated output voltage and safe current slew-rate for the battery. <i>Revista UIS Ingenierías</i> , 2020 , 19, 117-129	0.3	0
12	Sliding-mode control of a CuK converter for voltage regulation of a dc-bus. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 42, 100807	4.7	0
11	PV Array Reconfiguration Based on Genetic Algorithm for Maximum Power Extraction and Energy Impact Analysis. <i>Sustainability</i> , 2022 , 14, 3764	3.6	0
10	Double Adaptive PI-Structure for Regulating a Microgrid DC Bus Using a Flyback-Based Battery Charger/Discharger Converter. <i>Computation</i> , 2022 , 10, 53	2.2	0
9	Adaptive Control of Photovoltaic Systems Based on Dual Active Bridge Converters. <i>Computation</i> , 2022 , 10, 89	2.2	0
8	Modeling the PV Power Conversion Chain 2017 , 127-164		
7	PV Models 2017 , 1-19		
6	Modeling of asymmetrical boost converters. <i>Ingeniería E Investigación</i> , 2014 , 34, 53-59	0.3	
5	Active pre-filters for dc/dc Boost regulators. <i>Ingeniería E Investigación</i> , 2014 , 34, 49-54	0.3	
4	Models of PV Arrays under Non-homogeneous Conditions 97-112		
3	PV Array Modeling at Cell Level under Non-homogeneous Conditions 113-125		
2	Control of the Power Conversion Chain 165-184		
1	Fast calculation of the maximum power point of photovoltaic generators under partial shading. <i>Ingeniería E Investigación</i> , 2016 , 36, 58	0.3	