

Giovanni Spagnuolo

List of Publications by Year in descending order

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198
papers

9,092
citations

101384

36
h-index

46693

89
g-index

211
all docs

211
docs citations

211
times ranked

5077
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of Perturb and Observe Maximum Power Point Tracking Method. IEEE Transactions on Power Electronics, 2005, 20, 963-973.	5.4	2,305
2	Reliability Issues in Photovoltaic Power Processing Systems. IEEE Transactions on Industrial Electronics, 2008, 55, 2569-2580.	5.2	479
3	Distributed maximum power point tracking of photovoltaic arrays: Novel approach and system analysis. IEEE Transactions on Industrial Electronics, 2008, 55, 2610-2621.	5.2	471
4	Grid-Connected Photovoltaic Generation Plants: Components and Operation. IEEE Industrial Electronics Magazine, 2013, 7, 6-20.	2.3	380
5	A Technique for Improving P&O MPPT Performances of Double-Stage Grid-Connected Photovoltaic Systems. IEEE Transactions on Industrial Electronics, 2009, 56, 4473-4482.	5.2	373
6	Predictive & Adaptive MPPT Perturb and Observe Method. IEEE Transactions on Aerospace and Electronic Systems, 2007, 43, 934-950.	2.6	339
7	A PSO-Based Global MPPT Technique for Distributed PV Power Generation. IEEE Transactions on Industrial Electronics, 2015, 62, 1047-1058.	5.2	254
8	A Fast Current-Based MPPT Technique Employing Sliding Mode Control. IEEE Transactions on Industrial Electronics, 2013, 60, 1168-1178.	5.2	190
9	Analytical model of mismatched photovoltaic fields by means of Lambert W-function. Solar Energy Materials and Solar Cells, 2007, 91, 1652-1657.	3.0	176
10	Efficient Approaches for Modeling and Simulating Photovoltaic Power Systems. IEEE Journal of Photovoltaics, 2013, 3, 500-508.	1.5	158
11	Maximum Power Point Tracking in a One-Cycle-Controlled Single-Stage Photovoltaic Inverter. IEEE Transactions on Industrial Electronics, 2008, 55, 2684-2693.	5.2	150
12	Maximum power point tracking architectures for photovoltaic systems in mismatching conditions: a review. IET Power Electronics, 2014, 7, 1396-1413.	1.5	143
13	Perturb and Observe MPPT algorithm with a current controller based on the sliding mode. International Journal of Electrical Power and Energy Systems, 2013, 44, 346-356.	3.3	132
14	Design of a Sliding-Mode-Controlled SEPIC for PV MPPT Applications. IEEE Transactions on Industrial Electronics, 2014, 61, 3387-3398.	5.2	126
15	Optimized one-cycle control in photovoltaic grid connected applications. IEEE Transactions on Aerospace and Electronic Systems, 2006, 42, 954-972.	2.6	123
16	A Multivariable Perturb-and-Observe Maximum Power Point Tracking Technique Applied to a Single-Stage Photovoltaic Inverter. IEEE Transactions on Industrial Electronics, 2011, 58, 76-84.	5.2	120
17	Renewable Energy Operation and Conversion Schemes: A Summary of Discussions During the Seminar on Renewable Energy Systems. IEEE Industrial Electronics Magazine, 2010, 4, 38-51.	2.3	113
18	A genetic algorithm for identifying the single diode model parameters of a photovoltaic panel. Mathematics and Computers in Simulation, 2017, 131, 38-54.	2.4	107

#	ARTICLE	IF	CITATIONS
19	A two-steps algorithm improving the P&O steady state MPPT efficiency. Applied Energy, 2014, 113, 414-421.	5.1	92
20	Optimizing sampling rate of P&O MPPT technique. , 0, , .		83
21	An Analog Technique for Distributed MPPT PV Applications. IEEE Transactions on Industrial Electronics, 2012, 59, 4713-4722.	5.2	80
22	A PEM Fuel-Cell Model Featuring Oxygen-Excess-Ratio Estimation and Power-Electronics Interaction. IEEE Transactions on Industrial Electronics, 2010, 57, 1914-1924.	5.2	79
23	Optimizing duty-cycle perturbation of P&O MPPT technique. , 0, , .		78
24	Control of Photovoltaic Arrays: Dynamical Reconfiguration for Fighting Mismatched Conditions and Meeting Load Requests. IEEE Industrial Electronics Magazine, 2015, 9, 62-76.	2.3	78
25	Low-Frequency Current Oscillations and Maximum Power Point Tracking in Grid-Connected Fuel-Cell-Based Systems. IEEE Transactions on Industrial Electronics, 2010, 57, 2042-2053.	5.2	72
26	True worst-case circuit tolerance analysis using genetic algorithms and affine arithmetic. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2000, 47, 1285-1296.	0.1	70
27	Optimization of Perturbative PV MPPT Methods Through Online System Identification. IEEE Transactions on Industrial Electronics, 2014, 61, 6812-6821.	5.2	64
28	Model-Based Degradation Analysis of Photovoltaic Modules Through Series Resistance Estimation. IEEE Transactions on Industrial Electronics, 2015, 62, 7256-7265.	5.2	62
29	Symbolic algebra for the calculation of the series and parallel resistances in PV module model. , 2013, , .		61
30	Vanadium Redox Flow Batteries: Potentials and Challenges of an Emerging Storage Technology. IEEE Industrial Electronics Magazine, 2016, 10, 20-31.	2.3	61
31	A technique for mismatched PV array simulation. Renewable Energy, 2013, 55, 417-427.	4.3	57
32	A model of photovoltaic fields in mismatching conditions featuring an improved calculation speed. Electric Power Systems Research, 2013, 96, 81-90.	2.1	55
33	Translation of the Single-Diode PV Model Parameters Identified by Using Explicit Formulas. IEEE Journal of Photovoltaics, 2017, 7, 1009-1016.	1.5	54
34	Optimal Buck Converter Output Filter Design for Point-of-Load Applications. IEEE Transactions on Industrial Electronics, 2010, 57, 1330-1341.	5.2	52
35	Optimized Configuration of Mismatched Photovoltaic Arrays. IEEE Journal of Photovoltaics, 2016, 6, 1210-1220.	1.5	52
36	A perturbation strategy for fuel consumption minimization in polymer electrolyte membrane fuel cells: Analysis, Design and FPGA implementation. Applied Energy, 2014, 119, 21-32.	5.1	50

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37	Effect of autoclaving on the surfaces of TiN -coated and conventional nickel-titanium rotary instruments. International Endodontic Journal, 2012, 45, 1148-1155.	2.3	45
38	FPGA-Based Implementation of Dual Kalman Filter for PV MPPT Applications. IEEE Transactions on Industrial Informatics, 2017, 13, 176-185.	7.2	45
39	Effects of sodium hypochlorite and ethylenediaminetetraacetic acid on rotary nickel-titanium instruments evaluated using atomic force microscopy. International Endodontic Journal, 2011, 44, 203-209.	2.3	40
40	Perturb and observe MPPT technique robustness improved. , 2004, , .		37
41	Design of dc/dc Converters for DMPPT PV Applications Based on the Concept of Energetic Efficiency. Journal of Solar Energy Engineering, Transactions of the ASME, 2010, 132, .	1.1	35
42	Granular control of photovoltaic arrays by means of a multi-output Maximum Power Point Tracking algorithm. Progress in Photovoltaics: Research and Applications, 2013, 21, 918-932.	4.4	34
43	State-space models and order reduction for DC-DC switching converters in discontinuous modes. IEEE Transactions on Power Electronics, 1995, 10, 640-650.	5.4	33
44	Clinical and Spectrophotometric Evaluation of LED and Laser Activated Teeth Bleaching. Open Dentistry Journal, 2016, 10, 242-250.	0.2	31
45	Quantification of photovoltaic module degradation using model based indicators. Mathematics and Computers in Simulation, 2017, 131, 101-113.	2.4	30
46	A new analog MPPT technique: TEODI. Progress in Photovoltaics: Research and Applications, 2010, 18, 28-41.	4.4	29
47	Genetic optimization of interval arithmetic-based worst case circuit tolerance analysis. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1999, 46, 1441-1456.	0.1	28
48	An Hybrid Digital-Analog Sliding Mode Controller for Photovoltaic Applications. IEEE Transactions on Industrial Informatics, 2013, 9, 1094-1103.	7.2	28
49	Multi-Variable Perturb and Observe Algorithm for Grid-Tied PV Systems With Joint Central and Distributed MPPT Configuration. IEEE Transactions on Sustainable Energy, 2021, 12, 360-367.	5.9	28
50	Increasing the efficiency of P&O MPPT by converter dynamic matching. , 2004, , .		27
51	A method for simulating large PV arrays that include reverse biased cells. Applied Energy, 2014, 123, 157-167.	5.1	27
52	An evolutionary approach to the dynamical reconfiguration of photovoltaic fields. Neurocomputing, 2015, 170, 393-405.	3.5	27
53	General modeling procedure for photovoltaic arrays. Electric Power Systems Research, 2018, 155, 67-79.	2.1	27
54	Factors limiting the efficiency of DMPPT in PV applications. , 2011, , .		26

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55	Analysis of the degradation of single-crystalline silicon modules after 21 years of operation. Progress in Photovoltaics: Research and Applications, 2021, 29, 907-919.	4.4	23
56	Photovoltaic modules diagnostic: An overview. , 2013, , .		22
57	Robust Design of Electromagnetic Systems Based on Interval Taylor Extension Applied to a Multiquadric Performance Function. IEEE Transactions on Magnetics, 2008, 44, 1134-1137.	1.2	21
58	An interval arithmetic-based method for parametric identification of a fuel cell equivalent circuit model. Applied Energy, 2019, 242, 1226-1236.	5.1	21
59	Photovoltaic Inverters with Perturb & Observe MPPT Technique and One-Cycle Control. , 0, , .		19
60	Distributed Maximum Power Point Tracking: Challenges and Commercial Solutions. Automatika, 2012, 53, 128-141.	1.2	19
61	Online Identification of Photovoltaic Source Parameters by Using a Genetic Algorithm. Applied Sciences (Switzerland), 2018, 8, 9.	1.3	19
62	Temperature coefficients of degraded crystalline silicon photovoltaic modules at outdoor conditions. Progress in Photovoltaics: Research and Applications, 2021, 29, 558-570.	4.4	19
63	Dynamic model of one-cycle control for converters operating in continuous and discontinuous conduction modes. International Journal of Circuit Theory and Applications, 2009, 37, 661-684.	1.3	18
64	Online Recording a PV Module Fingerprint. IEEE Journal of Photovoltaics, 2014, 4, 659-668.	1.5	18
65	An interval mathematics approach to tolerance analysis of switching converters. , 0, , .		17
66	Power Stage Design of Fourth-Order DC-DC Converters by Means of Principal Components Analysis. IEEE Transactions on Power Electronics, 2008, 23, 2867-2877.	5.4	17
67	Fuel cell MPPT for fuel consumption optimization. , 2010, , .		16
68	Dual-Kalman-Filter-Based Identification and Real-Time Optimization of PV Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 7266-7275.	5.2	16
69	An interval arithmetic-based yield evaluation in circuit tolerance design. , 0, , .		15
70	Worst case tolerance design of magnetic devices by evolutionary algorithms. IEEE Transactions on Magnetics, 2003, 39, 2170-2178.	1.2	15
71	Energy efficiency effective design of DC/DC converters for DMPPT PV applications. , 2009, , .		15
72	Virtual Sensing of Photovoltaic Module Operating Parameters. IEEE Journal of Photovoltaics, 2020, 10, 852-862.	1.5	15

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73	Analysis of photovoltaic systems with Distributed Maximum Power Point Tracking. , 2008, , .		14
74	A multivariable MPPT algorithm for granular control of photovoltaic systems. , 2010, , .		14
75	Monitoring, Diagnosis, Prognosis, and Techniques for Increasing the Lifetime/Reliability of Photovoltaic Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 7226-7227.	5.2	14
76	Guidelines for the Optimization of the P&O Technique in Grid-connected Double-stage Photovoltaic Systems. , 2007, , .		13
77	On-line optimization of the P&#amp;O MPPT method by means of the system identification. , 2013, , .		13
78	FPGA-based implementation of an adaptive P&#amp;O MPPT controller for PV applications. , 2014, , .		13
79	Open-circuit voltage measurement of Lithium-Iron-Phosphate batteries. , 2015, , .		13
80	Automatic features extraction of faults in PEM fuel cells by a siamese artificial neural network. International Journal of Hydrogen Energy, 2021, 46, 34854-34866.	3.8	13
81	Mismatching and partial shading identification in photovoltaic arrays by an artificial neural network ensemble. Solar Energy, 2022, 236, 712-723.	2.9	13
82	Optimal control of photovoltaic arrays. Mathematics and Computers in Simulation, 2013, 91, 1-15.	2.4	12
83	A Procedure for Modeling Photovoltaic Arrays under Any Configuration and Shading Conditions. Energies, 2018, 11, 767.	1.6	12
84	Artificial neural network based photovoltaic module diagnosis by current—voltage curve classification. Solar Energy, 2022, 236, 383-392.	2.9	12
85	Real time Energy Management System of a photovoltaic based e-vehicle charging station using Explicit Model Predictive Control accounting for uncertainties. Sustainable Energy, Grids and Networks, 2022, 31, 100769.	2.3	12
86	Steady-state analysis of hard and soft switching DC-to-DC regulators. IEEE Transactions on Power Electronics, 2003, 18, 51-64.	5.4	11
87	Tolerance design of controllers for switching regulators. IEEE Transactions on Aerospace and Electronic Systems, 2004, 40, 661-674.	2.6	11
88	A method for the fast estimation of the maximum power points in mismatched PV strings. Electric Power Systems Research, 2015, 121, 115-125.	2.1	11
89	Experimental comparison between various fitting approaches based on RMSE minimization for photovoltaic module parametric identification. Energy Conversion and Management, 2022, 258, 115526.	4.4	11
90	Analysis of hard synchronous commutations in switching converters. , 0, , .		10

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91	A fast current-based MPPT technique based on sliding mode control. , 2011, , .		10
92	Comparison of state and parameter estimators for electric vehicle batteries. , 2015, , .		10
93	A losses-based analysis for electric vehicle wireless chargers. , 2015, , .		10
94	An Isolated Semiresonant DC/DC Converter for High Power Applications. IEEE Transactions on Industry Applications, 2017, 53, 2200-2209.	3.3	10
95	Enhanced simulation of total cross tied photovoltaic arrays. Mathematics and Computers in Simulation, 2019, 158, 49-64.	2.4	10
96	Photovoltaic Module and Submodule Level Power Electronics and Control. IEEE Transactions on Industrial Electronics, 2019, 66, 3856-3859.	5.2	10
97	Analysis of soft synchronous commutations in switching converters. , 0, , .		9
98	System-on-Chip FPGA Devices for Complex Electrical Energy Systems Control. IEEE Industrial Electronics Magazine, 2022, 16, 53-64.	2.3	9
99	INTERVAL ANALYSIS IN POWER ELECTRONICS. Journal of Circuits, Systems and Computers, 1995, 05, 317-336.	1.0	8
100	Steady-state analysis of soft-switching converters. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 939-954.	0.1	8
101	Enhancing Polymeric Electrolyte Membrane Fuel Cell Control by Means of the Perturb and Observe Technique. Journal of Fuel Cell Science and Technology, 2010, 7, .	0.8	8
102	TEODI: A new technique for Distributed Maximum Power Point Tracking PV Applications. , 2010, , .		8
103	DCM operation of interleaved DC/DC converters for PV applications. , 2012, , .		8
104	A Kalman filter based approach to PEM fuel cell fault detection. , 2017, , .		8
105	An Evolutionary Computation Approach for the Online/On-Board Identification of PEM Fuel Cell Impedance Parameters with A Diagnostic Perspective. Energies, 2019, 12, 4374.	1.6	8
106	A fast fuel cell parametric identification approach based on machine learning inverse models. Energy, 2022, 239, 122140.	4.5	8
107	Variability Analysis of Composite Materials for Stress Relief in Cable Accessories. IEEE Transactions on Magnetics, 2004, 40, 418-425.	1.2	7
108	PEM Fuel Cells Control by means of the Perturb and Observe Technique. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	7

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109	Experimental characterization of the photovoltaic generator for a hybrid solar vehicle. , 2007, , .		7
110	What is the best dc/dc converter for an AC module? Experimental analysis of two interesting solutions. , 2011, , .		7
111	A vectorial MPPT algorithm for distributed photovoltaic applications. , 2013, , .		7
112	FPGA implementation of the EIS technique for the on-line diagnosis of fuel-cell systems. , 2017, , .		7
113	EIS Method for the On-Board Evaluation of the Fuel Cell Impedance. , 2018, , .		7
114	DC-Link Capacitor Diagnosis in a Single-Phase Grid-Connected PV System. Energies, 2021, 14, 6754.	1.6	7
115	An effective interval analysis-based method for the unified steady-state analysis of PWM switching converters. , 0, , .		6
116	Identification of DC-DC switching converters characteristics for control systems design using interval mathematics. , 0, , .		6
117	Unified analysis of synchronous commutations in switching converters. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 1150-1166.	0.1	6
118	Tolerance design of DC-DC switching regulators. , 0, , .		6
119	Tolerance design of closed-loop controllers for DC-DC voltage regulators: genetic algorithms and vertex analysis based optimization. , 0, , .		6
120	Design and Optimization of a Maximum Power Point Tracking controller for a PV battery charger. , 2007, , .		6
121	Dynamic model of a grid-connected photovoltaic inverter with one cycle control. , 2009, , .		6
122	Optimization of Perturb and Observe control of grid connected PEM Fuel Cells. , 2009, , .		6
123	TEODI: PV MPPT based on the Equalization of the Output operating points in correspondence of the forced Displacement of the Input operating points. , 2010, , .		6
124	About the criteria for triggering the reconfiguration of a photovoltaic array. , 2014, , .		6
125	Identification of ferrite core inductors parameters by evolutionary algorithms. , 2015, , .		6
126	Parameters identification of the single-diode model for amorphous photovoltaic panels. , 2015, , .		6

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127	One-cycle control of converters operating in DCM. , 0, , .		5
128	About the identification of the single-diode model parameters of high-fill-factor photovoltaic modules. , 2015, , .		5
129	Models and methods for energy productivity analysis of PV systems. , 2015, , .		5
130	Numerical study of the DEKF parameter identification capabilities in fuel cell EIS tests. , 2018, , .		5
131	Identification and Diagnosis of a Photovoltaic Module Based on Outdoor Measurements. , 2019, , .		5
132	SoC implementation of a photovoltaic reconfiguration algorithm by exploiting a HLS-based architecture. Mathematics and Computers in Simulation, 2019, 158, 520-537.	2.4	5
133	SoC-based embedded real-time simulation of mismatched photovoltaic strings. Mathematics and Computers in Simulation, 2021, 184, 267-281.	2.4	5
134	Analysis of the degradation of amorphous silicon-based modules after 11 years of exposure by means of IEC60891:2021 procedure 3. Progress in Photovoltaics: Research and Applications, 2022, 30, 1176-1187.	4.4	5
135	New model to study the outdoor degradation of thin-film photovoltaic modules. Renewable Energy, 2022, 193, 857-869.	4.3	5
136	New approaches to the true worst-case evaluation in circuit tolerance analysis. II. Calculation of the outer solution by affine arithmetic. , 0, , .		4
137	Matching the photovoltaic field orientation to load requirements in stand-alone distributed power systems. , 0, , .		4
138	FPGA-based controller for mitigation of the 100 Hz oscillation in grid connected PV systems. , 2010, , .		4
139	Performance parametric analysis of a PEMFC model. , 2010, , .		4
140	Parameter translation for single-diode PV models based on explicit identification. , 2017, , .		4
141	PECS: a power electronic circuits-oriented simulator. , 0, , .		3
142	New approaches to the true worst-case evaluation in circuit tolerance analysis. I. Calculation of the inner solution by genetic algorithms. , 0, , .		3
143	A Layered Software Architecture With Uncertainty Handling Capabilities For Circuit Computer-aided Design. , 0, , .		3
144	Switching-invariant models of soft-switching cells. , 0, , .		3

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145	Reliable worst-case tolerance design of feedback regulated DC-DC converters by evolutionary algorithms and interval arithmetic. , 0, , .		3
146	Steady-state analysis of PWM DC-to-DC regulators. IEEE Transactions on Aerospace and Electronic Systems, 2003, 39, 318-334.	2.6	3
147	Dynamic Model of One-Cycle control for converters operating in CCM and DCM. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	3
148	Multi-objective optimization and MPPT in a single stage photovoltaic inverter. , 2008, , .		3
149	AC module design employing low capacitance values. , 2010, , .		3
150	Recent advances in efficient and reliable photovoltaic systems. , 2011, , .		3
151	Digital implementation of one cycle control in back to back converters. , 2012, , .		3
152	FPGA based implementation of a sliding-mode observer for battery state of charge estimation. , 2017, , .		3
153	Multi-discontinuous modes: a new class of discontinuous modes in PWM switching converters. , 0, , .		2
154	Profile optimisation for an HV insulator in vacuum. , 0, , .		2
155	A methodological approach for improvement of vacuum-insulated HV bushings. , 0, , .		2
156	Spectral analysis of switching converters using a generalized transfer function. , 0, , .		2
157	Generalized invariant models for the analysis of soft-switching cells. , 0, , .		2
158	Nominal and tolerance design of closed-loop controllers for DC-DC voltage regulators. , 0, , .		2
159	Detection of acceptability regions by means of an interval arithmeticâ€based algorithm. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2006, 25, 964-978.	0.5	2
160	Optimal design of input filters for dc-dc switching regulator using ceramic and electrolytic capacitors. , 2008, , .		2
161	A unified method for optimal buck converter output capacitor design. , 2008, , .		2
162	Improving the perturb and observe Maximum Power Point Tracking by using Sliding Mode control. , 2011, , .		2

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163	Modeling of photovoltaic fields in mismatching conditions by means of inflection voltages. , 2012, , .		2
164	A compact dc/dc converter for DMPPT in applications to sustainable mobility. , 2012, , .		2
165	One Cycle Control for photovoltaic module-integrated inverters. , 2012, , .		2
166	Capacitor peak current control for MPPT photovoltaic applications. , 2013, , .		2
167	Introduction to the Special Section on Smart Devices for Renewable Energy Systems. IEEE Transactions on Industrial Electronics, 2013, 60, 1119-1121.	5.2	2
168	Fast estimation of MPPs in mismatched PV arrays based on lossless model. , 2015, , .		2
169	A new semi-resonant dc/dc converter topology. , 2015, , .		2
170	A new approach for DC bus voltage balancing in a solar electric vehicle charging station. , 2016, , .		2
171	Current equalization of mismatched PV panels based on a capacitor energy storage. , 2018, , .		2
172	Catch The True Worst-case In Tolerance And Sensitivity Analysis By Genetic Algorithms And Affine Mathematics. , 0, , .		1
173	Multi agent systems for circuit tolerance and sensitivity analysis. , 0, , .		1
174	Worst-case tolerance analysis of non-linear systems using evolutionary algorithms. , 0, , .		1
175	PCA-based design of a SEPIC converter. , 2008, , .		1
176	Fighting Fuel cell current oscillations in grid connected applications. , 2009, , .		1
177	Geometric-constants-based design of transformers for isolated switching converters. , 2010, , .		1
178	Stability limit analysis for peak-current-controlled Ćuk converter. , 2013, , .		1
179	Experimental characterization of a novel semi-resonant dc/dc converter. , 2016, , .		1
180	System-on-chip implementation of a PV dynamical reconfiguration algorithm. , 2016, , .		1

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181	Stable DC bus voltage balancing in a renewable source grid connected neutral point clamped inverter. , 2016, , .		1
182	An improved mathematical method for the identification of fuel cell impedance parameters based on the interval arithmetic. Mathematics and Computers in Simulation, 2021, 183, 78-96.	2.4	1
183	Centralized Control in Photovoltaic Distributed Maximum Power Point Tracking Systems. Lecture Notes in Electrical Engineering, 2020, , 511-523.	0.3	1
184	Genetic optimisation of interval mathematics-based sensitivity analysis of switching converters. , 0, , .		0
185	Analysis of switching-invariant characteristics of soft-switching cells. , 0, , .		0
186	Nominal and tolerance design of feedback compensators for switching regulators. , 0, , .		0
187	Resistive losses of conductors carrying SMPS current waveforms. , 0, , .		0
188	Load matching of photovoltaic field orientation in stand-alone distributed power systems. , 2004, , .		0
189	Worst Case Tolerance Analysis in Static Field Problems. IEEE Transactions on Magnetics, 2004, 40, 366-370.	1.2	0
190	Range analysis of biological cells subjected to pulsed electric field. , 0, , .		0
191	An adaptive method for the identification of the main features of photovoltaic modules. , 2015, , .		0
192	A geostatistical approach for identifying the shadowing conditions affecting a PV plant. , 2015, , .		0
193	Experimental evaluation of a MPPT technique for electrical mobility PV applications. , 2017, , .		0
194	Photovoltaic plant cloud shadowing and energy drops in Northern Europe. , 2018, , .		0
195	Real Time Simulation of Mismatched PV Arrays. , 2018, , .		0
196	Adaptive Grid-Voltage Feedforward for Three-Phase Inverters applying Perturb and Observe Algorithm to minimize Current THD. , 2019, , .		0
197	Real Time Techniques and Architectures for Maximizing the Power Produced by a Photovoltaic Array. Smart Innovation, Systems and Technologies, 2013, , 239-257.	0.5	0
198	A novel software architecture for computer-aided analysis of circuits with uncertain parameters. , 0, , .		0