

Marcelo Godoy Simes

List of Publications by Citations

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168
papers

5,326
citations

36
h-index

70
g-index

186
ext. papers

6,702
ext. citations

4.4
avg, IF

5.93
L-index

#	Paper	IF	Citations
168	. <i>IEEE Transactions on Industrial Electronics</i> , 2004 , 51, 1103-1112	8.9	331
167	Fuzzy logic based intelligent control of a variable speed cage machine wind generation system. <i>IEEE Transactions on Power Electronics</i> , 1997 , 12, 87-95	7.2	313
166	SLCL Filter Design and Performance Analysis for Grid-Interconnected Systems. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 1225-1232	4.3	290
165	Distributed Intelligent Energy Management System for a Single-Phase High-Frequency AC Microgrid. <i>IEEE Transactions on Industrial Electronics</i> , 2007 , 54, 97-109	8.9	268
164	Three-Port Bidirectional Converter for Hybrid Fuel Cell Systems. <i>IEEE Transactions on Power Electronics</i> , 2007 , 22, 480-487	7.2	238
163	The New Frontier of Smart Grids. <i>IEEE Industrial Electronics Magazine</i> , 2011 , 5, 49-63	6.2	229
162	A comprehensive review for industrial applicability of artificial neural networks. <i>IEEE Transactions on Industrial Electronics</i> , 2003 , 50, 585-601	8.9	228
161	Benefits of Power Electronic Interfaces for Distributed Energy Systems. <i>IEEE Transactions on Energy Conversion</i> , 2010 , 25, 901-908	5.4	189
160	Design and performance evaluation of a fuzzy-logic-based variable-speed wind generation system. <i>IEEE Transactions on Industry Applications</i> , 1997 , 33, 956-965	4.3	185
159	An Energy Management System for Building Structures Using a Multi-Agent Decision-Making Control Methodology. <i>IEEE Transactions on Industry Applications</i> , 2013 , 49, 322-330	4.3	147
158	. <i>IEEE Transactions on Industry Applications</i> , 1995 , 31, 620-629	4.3	127
157	Online energy management strategy of fuel cell hybrid electric vehicles based on data fusion approach. <i>Journal of Power Sources</i> , 2017 , 366, 278-291	8.9	117
156	. <i>IEEE Transactions on Energy Conversion</i> , 2005 , 20, 211-218	5.4	116
155	A Multiagent Fuzzy-Logic-Based Energy Management of Hybrid Systems. <i>IEEE Transactions on Industry Applications</i> , 2009 , 45, 2123-2129	4.3	111
154	Power control flexibilities for grid-connected multi-functional photovoltaic inverters. <i>IET Renewable Power Generation</i> , 2016 , 10, 504-513	2.9	104
153	2005 ,		95
152	Energy cost analysis of a solar-hydrogen hybrid energy system for stand-alone applications. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 2871-2879	6.7	86

151	. <i>IEEE Transactions on Industry Applications</i> , 2003 , 39, 1136-1142	4.3	80
150	. <i>IEEE Transactions on Industrial Electronics</i> , 2002 , 49, 1154-1164	8.9	77
149	PEM Fuel Cell Stack Modeling for Real-Time Emulation in Hardware-in-the-Loop Applications. <i>IEEE Transactions on Energy Conversion</i> , 2011 , 26, 184-194	5.4	75
148	. <i>IEEE Transactions on Industry Applications</i> , 2012 , 48, 1154-1162	4.3	72
147	. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 3430-3440	6.8	64
146	Experimental Evaluation of Active Filtering in a Single-Phase High-Frequency AC Microgrid. <i>IEEE Transactions on Energy Conversion</i> , 2009 , 24, 673-682	5.4	64
145	Neural optimal control of PEM fuel cells with parametric CMAC networks. <i>IEEE Transactions on Industry Applications</i> , 2005 , 41, 237-245	4.3	61
144	A three-port bi-directional converter for hybrid fuel cell systems		58
143	. <i>IEEE Transactions on Industrial Informatics</i> , 2016 , 12, 532-543	11.9	56
142	. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 2964-2975	10.7	52
141	A Bayesian network fault diagnostic system for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2007 , 165, 267-278	8.9	52
140	Centralized Control of Distributed Single-Phase Inverters Arbitrarily Connected to Three-Phase Four-Wire Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2017 , 8, 437-446	10.7	51
139	Experimental evaluation of four-phase floating interleaved boost converter design and control for fuel cell applications. <i>IET Power Electronics</i> , 2013 , 6, 215-226	2.2	51
138	. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 2495-2505	4.3	49
137	PV-Microgrid Operational Cost Minimization by Neural Forecasting and Heuristic Optimization 2008 ,		46
136	On-line fault diagnostic system for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2008 , 175, 419-429	8.9	45
135	. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 1538-1551	4.3	44
134	Design of a Flux-Switching Electrical Generator for Wind Turbine Systems. <i>IEEE Transactions on Industry Applications</i> , 2012 , 48, 1808-1816	4.3	42

133	Parametric CMAC networks: fundamentals and applications of a fast convergence neural structure. <i>IEEE Transactions on Industry Applications</i> , 2003 , 39, 1551-1557	4.3	40
132	Evaluating the Long-Term Impact of a Continuously Increasing Harmonic Demand on Feeder-Level Voltage Distortion. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 2142-2149	4.3	35
131	Utilizing a Smart Grid Monitoring System to Improve Voltage Quality of Customers. <i>IEEE Transactions on Smart Grid</i> , 2012 , 3, 738-743	10.7	32
130	Smart Grid Initiative. <i>IEEE Industry Applications Magazine</i> , 2011 , 17, 27-35	0.6	32
129	Enhanced Instantaneous Power Theory Decomposition for Power Quality Smart Converter Applications. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 9344-9359	7.2	30
128	Direct Connection of Supercapacitor Battery Hybrid Storage System to the Grid-Tied Photovoltaic System. <i>IEEE Transactions on Sustainable Energy</i> , 2019 , 10, 1370-1379	8.2	29
127	Smart-grid technologies and progress in Europe and the USA 2011 ,		27
126	Grid-Connected Symmetrical Cascaded Multilevel Converter for Power Quality Improvement. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 2792-2805	4.3	25
125	Interactive smart battery storage for a PV and wind hybrid energy management control based on conservative power theory. <i>International Journal of Control</i> , 2016 , 89, 850-870	1.5	25
124	Programmable PFC based hybrid multipulse power rectifier for ultra clean power application. <i>IEEE Transactions on Power Electronics</i> , 2006 , 21, 959-966	7.2	25
123	PQ, DQ and CPT control methods for shunt active compensators A comparative study 2014 ,		23
122	Passive Filter Aided by Shunt Compensators Based on the Conservative Power Theory. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 3340-3347	4.3	23
121	Dynamic simulation and analysis of parallel self-excited induction generators for islanded wind farm systems. <i>IEEE Transactions on Industry Applications</i> , 2005 , 41, 1099-1106	4.3	22
120	. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 4375-4384	4.3	21
119	Simplified Small-Signal Model for Output Voltage Control of Asymmetric Cascaded H-Bridge Multilevel Inverter. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 3509-3519	7.2	19
118	Neural network-based estimation of power electronic waveforms. <i>IEEE Transactions on Power Electronics</i> , 1996 , 11, 383-389	7.2	19
117	LCL filter design and performance analysis for small wind turbine systems 2012 ,		17
116	Designing smart inverter with unified controller and smooth transition between grid-connected and islanding modes for microgrid application 2015 ,		16

115			16
114	. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 2967-2979	10.7	15
113	Development of a four phase floating interleaved boost converter for photovoltaic systems 2014 ,		15
112	A conceptual scheme for cyber-physical systems based energy management in building structures 2010 ,		15
111	2009 ,		15
110	Load Disaggregation Using Microscopic Power Features and Pattern Recognition. <i>Energies</i> , 2019 , 12, 2641	3.1	14
109	Development of a Quasi 2-D Modeling of Tubular Solid-Oxide Fuel Cell for Real-Time Control. <i>IEEE Transactions on Energy Conversion</i> , 2014 , 29, 9-19	5.4	14
108	Online energy management strategy of fuel cell hybrid electric vehicles based on time series prediction 2017 ,		14
107	An Energy Management System for Building Structures Using a Multi-Agent Decision-Making Control Methodology 2010 ,		14
106	Performance Evaluation of a Novel Hybrid Multipulse Rectifier for Utility Interface of Power Electronic Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2007 , 54, 3030-3041	8.9	14
105	Full expandable model of parallel self-excited induction generators. <i>IET Electric Power Applications</i> , 2005 , 152, 96		14
104	A Bidirectional NPC-based Level 3 EV Charging System with Added Active Filter Functionality in Smart Grid Applications 2018 ,		14
103	Application of the Conservative Power Theory Current Decomposition in a Load Power-Sharing Strategy Among Distributed Energy Resources. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 3771-3781	4.3	13
102	Real-time control of hybrid active power filter using conservative power theory in industrial power system. <i>IET Power Electronics</i> , 2017 , 10, 196-207	2.2	13
101	Field-oriented control strategy for double-stator single-rotor and double-rotor single-stator permanent magnet machine: Design and operation. <i>Computers and Electrical Engineering</i> , 2021 , 90, 106953	4.3	13
100	Fuzzy-Based Energy Management Control: Design of a Battery Auxiliary Power Unit for Remote Applications. <i>IEEE Industry Applications Magazine</i> , 2014 , 20, 41-49	0.6	12
99	Fuzzy Modeling Approaches for the Prediction of Machine Utilization in Hard Rock Tunnel Boring Machines. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2006 ,		11
98	Bidirectional floating interleaved buck-boost DC-DC converter applied to residential PV power systems 2015 ,		10

97	Cooperative operation based master-slave in islanded microgrid with CPT current decomposition 2015,		10
96	Short transient recovery of low voltage-grid-tied DC distributed generation 2015,		10
95	Advanced hybrid dual loop control for multi-phases interleaved floating DC-DC converter for fuel cell applications 2012,		10
94	Application of a Modified Single-Phase P-Q Theory in the Control of Shunt and Series Active Filters in a 400 Hz Microgrid		10
93	Compressive System Identification for Multiple Line Outage Detection in Smart Grids. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 4462-4473	4.3	9
92	Small Wind Energy Systems. <i>Electric Power Components and Systems</i> , 2015 , 43, 1388-1405	1	9
91	Feasibility of water-cooled photovoltaic panels under the efficiency and durability aspects. <i>Solar Energy</i> , 2020 , 207, 103-109	6.8	9
90	Fuzzy logic controller development of a hybrid fuel cell-battery auxiliary power unit for remote applications 2010,		9
89	Distributed Energy Management of PV-Storage Systems for Voltage Rise Mitigation. <i>Technology and Economics of Smart Grids and Sustainable Energy</i> , 2017 , 2, 1	2.1	8
88	Application of compressive sensing for distributed and structured power line outage detection in smart grids 2015,		8
87	Coordinated operation in a multi-inverter based microgrid for both grid-connected and islanded modes using conservative power theory 2015,		8
86	Economic analysis, optimal sizing and management of energy storage for PV grid integration 2016,		8
85	Novel expert system for defining power quality compensators. <i>Expert Systems With Applications</i> , 2015 , 42, 3562-3570	7.8	8
84	Advanced Active Filtering in a Single Phase High Frequency AC Microgrid		8
83	Neural-network-based prediction of mooring forces in floating production storage and offloading systems. <i>IEEE Transactions on Industry Applications</i> , 2002 , 38, 457-466	4.3	8
82	A NILM Dataset for Cognitive Meters Based on Conservative Power Theory and Pattern Recognition Techniques. <i>Journal of Control, Automation and Electrical Systems</i> , 2018 , 29, 742-755	1.5	8
81	Three-phase battery storage system with transformerless cascaded multilevel inverter for distribution grid applications. <i>IET Renewable Power Generation</i> , 2017 , 11, 742-749	2.9	7
80	Synergistic operation between battery energy storage and photovoltaic generator systems to assist management of microgrids. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 2944-2951	2.5	7

79	A Real-Time Sharing Reference Voltage for Hybrid Generation Power System 2010,		7
78	2009,		7
77	A Multi-Agent Fuzzy Logic Based Energy Management of Hybrid Systems 2008,		7
76	Compressive Informative Sparse Representation-Based Power Quality Events Classification. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 909-921	11.9	7
75	Scalable Single-Phase Multi-Functional Inverter for Integration of Rooftop Solar-PV to Low-Voltage Ideal and Weak Utility Grid. <i>Electronics (Switzerland)</i> , 2019 , 8, 302	2.6	6
74	Multi agent based energy management control for commercial buildings 2011,		6
73	A novel competitive learning neural network based acoustic transmission system for oil-well monitoring. <i>IEEE Transactions on Industry Applications</i> , 2000 , 36, 484-491	4.3	6
72	Restoration strategy in a self-healing distribution network with DG and flexible loads 2016,		6
71	Survey on time-domain power theories and their applications for renewable energy integration in smart-grids. <i>IET Smart Grid</i> , 2019 , 2, 491-503	2.7	6
70	Bidirectional direct current-direct current converter for fuel cell and renewable energy hybrid systems. <i>Journal of Renewable and Sustainable Energy</i> , 2015 , 7, 013119	2.5	5
69	5-level Cascaded H-Bridge Multilevel microgrid Inverter applicable to multiple DG resources with power quality enhancement capability 2015,		5
68	Evaluating the long-term impact of a continuously increasing harmonic load demand on feeder level voltage distortion 2012,		5
67	Transient performance analysis of a small-scale PV-PHS power plant fed by a SVPWM drive applied for a distribution system 2013,		5
66	Modeling and control of 4-phase floating interleaving boost converter 2011,		5
65	Grid modernization efforts in the USA and Brazil - some common lessons based on the Smart Grid Initiative 2010,		5
64	Reducing distribution transformer losses through the use of Smart Grid monitoring 2009,		5
63	Fuzzy ARTMAP based forecast of renewable generation for a high frequency AC microgrid 2005,		5
62	A novel programmable PFC based hybrid rectifier for ultra clean power application		5

61	Neural dynamic programming based online controller with a novel trim approach. <i>IET Control Theory and Applications</i> , 2005 , 152, 95-104		5
60	Optimal Power Reserve of a Wind Turbine System Participating in Primary Frequency Control. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2022	2.6	5
59	Selective Sharing of Load Current Components Among Parallel Power Electronic Interfaces in Three-phase Four-wire Stand-alone Microgrid. <i>Electric Power Components and Systems</i> , 2017 , 45, 864-880 ¹		4
58	Understanding the Staircase Modulation Strategy and Its Application in Both Isolated and Grid-Connected Asymmetric Cascaded H-Bridge Multilevel Inverters. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 5371-5382	4.3	4
57	Three-phase smart inverter for flexible power conditioning in low voltage distribution systems 2017 ,		4
56	Power quality achievement using grid connected converter of wind turbine system 2015 ,		4
55	Smart grid topology identification using sparse recovery 2015 ,		4
54	Advances in information technology for Smart Grids 2013 ,		4
53	Simulation and analysis of DQ frame and P+Resonant controls for voltage source inverter to distributed generation 2009 ,		4
52	Bayesian Network Supervision on Fault Tolerant Fuel Cells. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2006 ,		4
51	State space modeling of parallel self-excited induction generators for wind farm simulation		4
50	Programmable PFC Based Hybrid Multipulse Power Rectifier for Utility Interface of Power Electronic Converters		4
49	Shading position effects on photovoltaic panel output power. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 30, e12163	2.2	4
48	A Robust Self-Attentive Capsule Network for Fault Diagnosis of Series-Compensated Transmission Line. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	4
47	Design Procedure for a Digital Proportional-Resonant Current Controller in a Grid Connected Inverter 2018 ,		4
46	Economic Planning and Comparative Analysis of Market-driven Multi-microgrid system for Peer-to-Peer energy trading. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	4
45	Experimental evaluation of an interleaved boost topology optimized for peak power tracking control 2014 ,		3
44	Staircase modulation based battery storage system with Asymmetric Cascaded H-Bridge Multivel Inverter 2015 ,		3

43	Considerations on the modeling and control scheme of grid connected inverter with voltage support capability 2013 ,		3
42	Improving energy efficiency of cyber physical systems using multi-agent based control 2012 ,		3
41	Benefits of utilizing a Smart Grid monitoring system to improve feeder voltage 2009 ,		3
40	Optimal Design Analysis of a Stand-Alone Photovoltaic Hybrid System 2008 ,		3
39	Future Renewable Energy Communities Based Flexible Power Systems. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 121	2.6	3
38	Exploiting Compressive System Identification for Multiple Line Outage Detection in Smart Grids 2018 ,		3
37	Centralized Power Reserve Algorithm of De-loaded Wind Farm for Primary Frequency Regulation 2018 ,		3
36	Applications of Cellular Neural Networks for Shape from Shading Problem. <i>Lecture Notes in Computer Science</i> , 1999 , 51-63	0.9	3
35	Frequency Support of Smart Grid Using Fuzzy Logic-Based Controller for Wind Energy Systems. <i>Energies</i> , 2019 , 12, 1550	3.1	2
34	Power quality enhancement by means of shunt compensators based on the conservative power theory 2015 ,		2
33	A multi task microgrid inverter based instantaneous Power Theory in islanded and grid-connected modes 2015 ,		2
32	Measurement-based performance analysis of wind energy systems. <i>IEEE Instrumentation and Measurement Magazine</i> , 2014 , 17, 15-20	1.4	2
31	Multifunctional control strategy for asymmetrical cascaded H-Bridge Inverter in microgrid applications 2015 ,		2
30	Selective operation of three-level NPC inverter based on synchronous reference frame method supplying nonlinear loads in microgrid system 2015 ,		2
29	Improving Thermal Comfort in Residential Buildings Using Artificial Immune System 2013 ,		2
28	dSPACE based implementation of a grid connected smart inverter system 2010 ,		2
27	Dynamic Interaction of an Intergrated Doubly-Fed Induction generator and a Fuel Cell connected to Grid		2
26	Cost Considerations on Fuel Cell Renewable Energy Systems. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2006 ,		2

25	Optical sensor for transformer monitoring		2
24	Mobile telephony RF mapping using fuzzy-CMAC neural networks		2
23	Current Balancing Algorithm for Three-Phase Multilevel Current Source Inverters. <i>Energies</i> , 2020 , 13, 860	3.1	2
22	Highly Accurate Digital Current Controllers for Single-Phase LCL-Filtered Grid-Connected Inverters. <i>Electricity</i> , 2020 , 1, 12-36	1	2
21	Application of the current decomposition of the Conservative Power Theory in Distributed Energy Resources 2016 ,		2
20	Modeling and tracking Transmission Line Dynamic Behavior in Smart Grids using structured sparsity 2016 ,		2
19	Enhanced Dual-Spectrum Line Interpolated FFT with Four-Term Minimal Sidelobe Cosine Window for Real-Time Harmonic Estimation in Synchrophasor Smart-Grid Technology. <i>Electronics (Switzerland)</i> , 2019 , 8, 191	2.6	2
18	Multilevel Current Source Converter-Based STATCOM Suitable for Medium-Voltage Applications. <i>IEEE Transactions on Power Delivery</i> , 2021 , 36, 1222-1232	4.3	2
17	Compressive Sensing for Power System Data Analysis 2018 , 159-178		2
16	Solar Heat Underground Storage Based Air Conditioning Vis-à-Vis Conventional HVAC Experimental Validation. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2018 , 140,	2.3	1
15	Advanced Three-Phase Instantaneous Power Theory Feature Extraction for Microgrid Islanding and Synchronized Measurements 2019 ,		1
14	Aspects of the integration of alternative sources of energy for application in distributed generation systems 2011 ,		1
13	Locating the origin of feeder level harmonics utilizing remote THD measurements 2011 ,		1
12	A Five-Phase Brushless Dc-Machine Direct Drive System. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2004 , 14, 15-24	0.4	1
11	A high torque low-speed multi-phase brushless machine a perspective application for electric vehicles		1
10	An Isolated High Voltage Boost Current-Fed DCDC Converter Based on 1:1 Transformer Multiplier Cells and ZVS Operation. <i>Electronics (Switzerland)</i> , 2020 , 9, 102	2.6	1
9	Distributed Generation Systems: An Approach in Instrumentation and Monitoring. <i>Electric Power Components and Systems</i> , 2018 , 46, 2189-2202	1	1
8	A Low Current-Ripple Coupled-Inductor Step-Up DC-DC Converter for Voltage-Multiplier Topology Solar PV Applications 2018 ,		1

7	Small Hydroelectric Systems. <i>Green Energy and Technology</i> , 2013 , 151-184	0.6	o
6	Power management algorithm for a conservative power theory battery storage based multi-functional three phase grid connected PV inverter. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 30, e12605	2.2	o
5	Analysis of Stationary- and Synchronous-Reference Frames for Three-Phase Three-Wire Grid-Connected Converter AC Current Regulators. <i>Energies</i> , 2021 , 14, 8348	3.1	o
4	Power Bipolar Transistors 2011 , 29-41		
3	ABET 2000 challenges in curricular compression: fluids and circuits - a pilot 2+1+1 approach. <i>IEEE Transactions on Education</i> , 2005 , 48, 503-512	2.1	
2	Power Bipolar Transistors 2007 , 27-39		
1	Power Electronics for Smart Distribution Grids. <i>Green Energy and Technology</i> , 2013 , 493-523	0.6	