Eduardo Manuel Godinho Rodrigues

List of Publications by Year
in descending order

79 papers	1,432 citations	411340 20 h-index	406436 35 g-index
80 all docs	80 docs citations	80 times ranked	1989 citing authors

#	Article	IF	Citations
1	Social Grouping Algorithm Aided Maximum Power Point Tracking Scheme for Partial Shaded Photovoltaic Array. Energies, 2022, 15, 2105.	1.6	7
2	A Symbiotic Organism Search-Based Selective Harmonic Elimination in a Switched Capacitor Multilevel Inverter. Energies, 2022, 15, 89.	1.6	2
3	A Nonisolated Transformerless High-Gain DCâ€“DC Converter for Renewable Energy Applications. Electronics (Switzerland), 2022, 11, 2014.	1.8	3
4	A Review of Data Mining Applications in Semiconductor Manufacturing. Processes, 2021, 9, 305.	1.3	42
5	Smart Monitoring and Controlling of Appliances Using LoRa Based IoT System. Designs, 2021, 5, 17.	1.3	39
6	Indirect Effective Controlled Split Source Inverter-Based Parallel Active Power Filter for Enhancing Power Quality. Electronics (Switzerland), 2021, 10, 892.	1.8	4
7	Implementation of Non-Isolated Zeta-KY Triple Port Converter for Renewable Energy Applications. Electronics (Switzerland), 2021, 10, 1681.	1.8	10
8	Neural-Network Based Modeling of I/O Buffer Predriver under Power/Ground Supply Voltage Variations. Sensors, 2021, 21, 6074.	2.1	2
9	Performance Enhancement of a Partially Shaded Photovoltaic Array by Optimal Reconfiguration and Current Injection Schemes. Energies, 2021, 14, 6332.	1.6	6
10	Industrial Applications of Power Electronics. Electronics (Switzerland), 2020, 9, 1534.	1.8	12
11	Coordinated Power Sharing in Islanding Microgrids for Parallel Distributed Generations. Electronics (Switzerland), 2020, 9, 1927.	1.8	8
12	X-Type Step-Up Multi-Level Inverter with Reduced Component Count Based on Switched-Capacitor Concept. Electronics (Switzerland), 2020, 9, 1987.	1.8	15
13	The Power System and Microgrid Protectionâ€”A Review. Applied Sciences (Switzerland), 2020, 10, 8271.	1.3	22
14	An Efficient H7 Single-Phase Photovoltaic Grid Connected Inverter for CMC Conceptualization and Mitigation Method. Electronics (Switzerland), 2020, 9, 1440.	1.8	7
15	Grounding System Modeling and Evaluation Using Integrated Circuit Based Fast Relaxed Vector Fitting Approach, Considering Soil Ionization. Applied Sciences (Switzerland), 2020, 10, 5632.	1.3	4
16	An RF Approach to Modelling Gallium Nitride Power Devices Using Parasitic Extraction. Electronics (Switzerland), 2020, 9, 2007.	1.8	4
17	An Impedance Source Multi-Level Three Phase Inverter with Common Mode Voltage Elimination and Dead Time Compensation. Electronics (Switzerland), 2020, 9, 1639.	1.8	3
18	Power Quality Improvement with a Pulse Width Modulation Control Method in Modular Multilevel Converters under Varying Nonlinear Loads. Applied Sciences (Switzerland), 2020, 10, 3292.	1.3	3

#	Article	IF	Citations
19	A Novel Control Strategy to Active Power Filter with Load Voltage Support Considering Current Harmonic Compensation. Applied Sciences (Switzerland), 2020, 10, 1664.	1.3	7
20	Energy Management of Virtual Power Plant Considering Distributed Generation Sizing and Pricing. Applied Sciences (Switzerland), 2019, 9, 2817.	1.3	25
21	A Multi-Inductor H Bridge Fault Current Limiter. Electronics (Switzerland), 2019, 8, 795.	1.8	14
22	An Innovative Dual-Boost Nine-Level Inverter with Low-Voltage Rating Switches. Energies, 2019, 12, 207.	1.6	14
23	Control of MMC-Based STATCOM as an Effective Interface between Energy Sources and the Power Grid. Electronics (Switzerland), 2019, 8, 1264.	1.8	8
24	Impact of Recloser on Protecting Blind Areas of Distribution Network in the Presence of Distributed Generation. Applied Sciences (Switzerland), 2019, 9, 5092.	1.3	5
25	Optimal residential model predictive control energy management performance with PV microgeneration. Computers and Operations Research, 2018, 96, 143-156.	2.4	28
26	Control of Modular Multilevel Converters Under Loading Variations in Distributed Generation Applications. , 2018, , .		0
27	Simulation and Comparison of Mathematical Models of PV Cells with Growing Levels of Complexity. Energies, 2018, 11, 2902.	1.6	26
28	Model Predictive Control Home Energy Management and Optimization Strategy with Demand Response. Applied Sciences (Switzerland), 2018, 8, 408.	1.3	77
29	Domestic appliances energy optimization with model predictive control. Energy Conversion and Management, 2017, 142, 402-413.	4.4	37
30	Modelling electrochemical energy storage devices in insular power network applications supported on real data. Applied Energy, 2017, 188, 315-329.	5.1	17
31	Energy optimization strategy with Model Predictive Control and demand response. , 2017, , .		4
32	Simulation study of a photovoltaic cell with increasing levels of model complexity. , 2017, , .		8
33	Home HVAC energy management and optimization with model predictive control. , 2017, , .		8
34	Modified Newton type algorithm-based frequency and phase estimation technique in harmonics-polluted grid. , 2017, , .		0
35	EV charging effect on a distribution transformer supplying a factory with local PV generation. , 2017, , .		1
36	Residential MPC controller performance in a household with PV microgeneration. , 2017, , .		3

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37	Hybrid time triggered protocol for home wireless communications. , 2017, , .		2
38	Experimental low cost reflective type oximeter for wearable health systems. Biomedical Signal Processing and Control, 2017, 31, 419-433.	3.5	23
39	Experimental Results on a Wireless Wattmeter Device for the Integration in Home Energy Management Systems. Energies, 2017, 10, 398.	1.6	11
40	Weekend charging impact of EVs on a residential distribution transformer in a Portuguese Island. , 2016, , .		0
41	Model predictive control technique for energy optimization in residential sector. , 2016, , .		6
42	Innovative impact assessment of electric vehicles charging loads on distribution transformers using real data. Energy Conversion and Management, 2016, 120, 206-216.	4.4	44
43	Novel methodology for integrated analog front-end signal processing blocks based portable multifunctional sensor for biomedical applications. , 2016, , .		0
44	Innovative experimental low cost electronics operated instrumentation for wearable health systems with high resolution physiological measurements. , 2016, , .		3
45	Overloading analysis of an industrial client distribution transformer in a Portuguese Island. , 2016, , .		5
46	Operating conditions of lead-acid batteries in the optimization of hybrid energy systems and microgrids. Applied Energy, 2016, 179, 590-600.	5.1	59
47	EV charging scheduler for overloading prevention of a distribution transformer supplying a factory. , 2016, , .		2
48	Smart electric vehicle charging scheduler for overloading prevention of an industry client power distribution transformer. Applied Energy, 2016, 178, 29-42.	5.1	54
49	A control strategy for the stable operation of shunt active power filters in power grids. Energy, 2016, 96, 325-334.	4.5	30
50	Consideration of the Impacts of a Smart Neighborhood Load on Transformer Aging. IEEE Transactions on Smart Grid, 2016, 7, 2793-2802.	6.2	32
51	Grid code reinforcements for deeper renewable generation in insular energy systems. Renewable and Sustainable Energy Reviews, 2016, 53, 163-177.	8.2	68
52	Control of Modular Multilevel Converters for integration of distributed generation sources into the power grid. , 2015, , .		9
53	Smart Home Communication Technologies and Applications: Wireless Protocol Assessment for Home Area Network Resources. Energies, 2015, 8, 7279-7311.	1.6	121
54	Effect of Loads and Other Key Factors on Oil-Transformer Ageing: Sustainability Benefits and Challenges. Energies, 2015, 8, 12147-12186.	1.6	76

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55	Assessing Lead-Acid battery design parameters for energy storage applications on insular grids: A case study of Crete and São Miguel islands. , 2015, , .		1
56	Electric vehicles home charging impact on a distribution transformer in a Portuguese Island. , 2015, , .		10
57	Enhancing home appliances energy optimization with solar power integration. , 2015, , .		8
58	Stable operation of distributed generation units in microgrid networks. , 2015, , .		1
59	New schedule management approach of energy storage system in insular power system. , 2015, , .		0
60	MPC weights tunning role on the energy optimization in residential appliances. , 2015, , .		5
61	An innovative technique for energy storage system management based on vanadium redox batteries. , 2015, , .		2
62	Control and stability analysis of interfaced converter in distributed generation technology. , 2015, , .		4
63	Impact of EV charging-at-work on an industrial client distribution transformer in a Portuguese Island. , 2015, , .		6
64	Model predictive control technique for energy optimization in residential appliances. , 2015, , .		3
65	New control strategy for the weekly scheduling of insular power systems with a battery energy storage system. Applied Energy, 2015, 154, 459-470.	5.1	32
66	Modelling and sizing of NaS (sodium sulfur) battery energy storage system for extending wind power performance in Crete Island. Energy, 2015, 90, 1606-1617.	4.5	56
67	Integration of DG sources for compensation of unbalanced loads in the power grid. , 2015, , .		2
68	Integration of renewable energy for the harmonic current and reactive power compensation. , 2015, , .		4
69	Multifunctional control of an NPC converter for the grid integration of renewable energy sources. , 2015, , .		4
70	Smart and energy-efficient home implementation: Wireless communication technologies role. , 2015, , .		5
71	Stability analysis for operation of DG units in smart grids. , 2015, , .		4
72	Stable operation of grid-interfacing converter during the operation of active power filters in power grids. , 2015, , .		0

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73	Comparison of battery models for energy storage applications on insular grids. , 2015, , .		1
74	Influence of Large Renewable Energy Integration on Insular Grid Code Compliance. IFIP Advances in Information and Communication Technology, 2015, , 296-308.	0.5	1
75	Experimental Wireless Wattmeter for Home Energy Management Systems. IFIP Advances in Information and Communication Technology, 2015, , 327-336.	0.5	1
76	NaS battery storage system modeling and sizing for extending wind farms performance in Crete. , 2014, , .		16
77	Electrical Energy Storage Systems: Technologies' State-of-the-Art, Techno-economic Benefits and Applications Analysis. , 2014, , .		54
78	Energy storage systems supporting increased penetration of renewables in islanded systems. Energy, 2014, 75, 265-280.	4.5	187
79	Assessment on baseline and higher order grid security criteria: Prospects for insular grid applications. , 2014, , .		0