

# Eduardo Manuel Godinho Rodrigues

## List of Publications by Year in descending order

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Version: 2024-02-01

79  
papers

1,432  
citations

361413

20  
h-index

361022

35  
g-index

80  
all docs

80  
docs citations

80  
times ranked

1766  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy storage systems supporting increased penetration of renewables in islanded systems. <i>Energy</i> , 2014, 75, 265-280.	8.8	187
2	Smart Home Communication Technologies and Applications: Wireless Protocol Assessment for Home Area Network Resources. <i>Energies</i> , 2015, 8, 7279-7311.	3.1	121
3	Model Predictive Control Home Energy Management and Optimization Strategy with Demand Response. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 408.	2.5	77
4	Effect of Loads and Other Key Factors on Oil-Transformer Ageing: Sustainability Benefits and Challenges. <i>Energies</i> , 2015, 8, 12147-12186.	3.1	76
5	Grid code reinforcements for deeper renewable generation in insular energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 163-177.	16.4	68
6	Operating conditions of lead-acid batteries in the optimization of hybrid energy systems and microgrids. <i>Applied Energy</i> , 2016, 179, 590-600.	10.1	59
7	Modelling and sizing of NaS (sodium sulfur) battery energy storage system for extending wind power performance in Crete Island. <i>Energy</i> , 2015, 90, 1606-1617.	8.8	56
8	Electrical Energy Storage Systems: Technologies' State-of-the-Art, Techno-economic Benefits and Applications Analysis. , 2014, , .		54
9	Smart electric vehicle charging scheduler for overloading prevention of an industry client power distribution transformer. <i>Applied Energy</i> , 2016, 178, 29-42.	10.1	54
10	Innovative impact assessment of electric vehicles charging loads on distribution transformers using real data. <i>Energy Conversion and Management</i> , 2016, 120, 206-216.	9.2	44
11	A Review of Data Mining Applications in Semiconductor Manufacturing. <i>Processes</i> , 2021, 9, 305.	2.8	42
12	Smart Monitoring and Controlling of Appliances Using LoRa Based IoT System. <i>Designs</i> , 2021, 5, 17.	2.4	39
13	Domestic appliances energy optimization with model predictive control. <i>Energy Conversion and Management</i> , 2017, 142, 402-413.	9.2	37
14	New control strategy for the weekly scheduling of insular power systems with a battery energy storage system. <i>Applied Energy</i> , 2015, 154, 459-470.	10.1	32
15	Consideration of the Impacts of a Smart Neighborhood Load on Transformer Aging. <i>IEEE Transactions on Smart Grid</i> , 2016, 7, 2793-2802.	9.0	32
16	A control strategy for the stable operation of shunt active power filters in power grids. <i>Energy</i> , 2016, 96, 325-334.	8.8	30
17	Optimal residential model predictive control energy management performance with PV microgeneration. <i>Computers and Operations Research</i> , 2018, 96, 143-156.	4.0	28
18	Simulation and Comparison of Mathematical Models of PV Cells with Growing Levels of Complexity. <i>Energies</i> , 2018, 11, 2902.	3.1	26

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19	Energy Management of Virtual Power Plant Considering Distributed Generation Sizing and Pricing. Applied Sciences (Switzerland), 2019, 9, 2817.	2.5	25
20	Experimental low cost reflective type oximeter for wearable health systems. Biomedical Signal Processing and Control, 2017, 31, 419-433.	5.7	23
21	The Power System and Microgrid Protection – A Review. Applied Sciences (Switzerland), 2020, 10, 8271.	2.5	22
22	Modelling electrochemical energy storage devices in insular power network applications supported on real data. Applied Energy, 2017, 188, 315-329.	10.1	17
23	NaS battery storage system modeling and sizing for extending wind farms performance in Crete. , 2014, , .		16
24	X-Type Step-Up Multi-Level Inverter with Reduced Component Count Based on Switched-Capacitor Concept. Electronics (Switzerland), 2020, 9, 1987.	3.1	15
25	A Multi-Inductor H Bridge Fault Current Limiter. Electronics (Switzerland), 2019, 8, 795.	3.1	14
26	An Innovative Dual-Boost Nine-Level Inverter with Low-Voltage Rating Switches. Energies, 2019, 12, 207.	3.1	14
27	Industrial Applications of Power Electronics. Electronics (Switzerland), 2020, 9, 1534.	3.1	12
28	Experimental Results on a Wireless Wattmeter Device for the Integration in Home Energy Management Systems. Energies, 2017, 10, 398.	3.1	11
29	Electric vehicles home charging impact on a distribution transformer in a Portuguese Island. , 2015, , .		10
30	Implementation of Non-Isolated Zeta-KY Triple Port Converter for Renewable Energy Applications. Electronics (Switzerland), 2021, 10, 1681.	3.1	10
31	Control of Modular Multilevel Converters for integration of distributed generation sources into the power grid. , 2015, , .		9
32	Enhancing home appliances energy optimization with solar power integration. , 2015, , .		8
33	Simulation study of a photovoltaic cell with increasing levels of model complexity. , 2017, , .		8
34	Home HVAC energy management and optimization with model predictive control. , 2017, , .		8
35	Control of MMC-Based STATCOM as an Effective Interface between Energy Sources and the Power Grid. Electronics (Switzerland), 2019, 8, 1264.	3.1	8
36	Coordinated Power Sharing in Islanding Microgrids for Parallel Distributed Generations. Electronics (Switzerland), 2020, 9, 1927.	3.1	8

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37	An Efficient H7 Single-Phase Photovoltaic Grid Connected Inverter for CMC Conceptualization and Mitigation Method. Electronics (Switzerland), 2020, 9, 1440.	3.1	7
38	A Novel Control Strategy to Active Power Filter with Load Voltage Support Considering Current Harmonic Compensation. Applied Sciences (Switzerland), 2020, 10, 1664.	2.5	7
39	Social Grouping Algorithm Aided Maximum Power Point Tracking Scheme for Partial Shaded Photovoltaic Array. Energies, 2022, 15, 2105.	3.1	7
40	Impact of EV charging-at-work on an industrial client distribution transformer in a Portuguese Island. , 2015, , .		6
41	Model predictive control technique for energy optimization in residential sector. , 2016, , .		6
42	Performance Enhancement of a Partially Shaded Photovoltaic Array by Optimal Reconfiguration and Current Injection Schemes. Energies, 2021, 14, 6332.	3.1	6
43	MPC weights tuning role on the energy optimization in residential appliances. , 2015, , .		5
44	Smart and energy-efficient home implementation: Wireless communication technologies role. , 2015, , .		5
45	Overloading analysis of an industrial client distribution transformer in a Portuguese Island. , 2016, , .		5
46	Impact of Recloser on Protecting Blind Areas of Distribution Network in the Presence of Distributed Generation. Applied Sciences (Switzerland), 2019, 9, 5092.	2.5	5
47	Control and stability analysis of interfaced converter in distributed generation technology. , 2015, , .		4
48	Integration of renewable energy for the harmonic current and reactive power compensation. , 2015, , .		4
49	Multifunctional control of an NPC converter for the grid integration of renewable energy sources. , 2015, , .		4
50	Stability analysis for operation of DG units in smart grids. , 2015, , .		4
51	Energy optimization strategy with Model Predictive Control and demand response. , 2017, , .		4
52	Grounding System Modeling and Evaluation Using Integrated Circuit Based Fast Relaxed Vector Fitting Approach, Considering Soil Ionization. Applied Sciences (Switzerland), 2020, 10, 5632.	2.5	4
53	An RF Approach to Modelling Gallium Nitride Power Devices Using Parasitic Extraction. Electronics (Switzerland), 2020, 9, 2007.	3.1	4
54	Indirect Effective Controlled Split Source Inverter-Based Parallel Active Power Filter for Enhancing Power Quality. Electronics (Switzerland), 2021, 10, 892.	3.1	4

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55	Model predictive control technique for energy optimization in residential appliances. , 2015, , .		3
56	Innovative experimental low cost electronics operated instrumentation for wearable health systems with high resolution physiological measurements. , 2016, , .		3
57	Residential MPC controller performance in a household with PV microgeneration. , 2017, , .		3
58	An Impedance Source Multi-Level Three Phase Inverter with Common Mode Voltage Elimination and Dead Time Compensation. Electronics (Switzerland), 2020, 9, 1639.	3.1	3
59	Power Quality Improvement with a Pulse Width Modulation Control Method in Modular Multilevel Converters under Varying Nonlinear Loads. Applied Sciences (Switzerland), 2020, 10, 3292.	2.5	3
60	A Nonisolated Transformerless High-Gain DCâ€“DC Converter for Renewable Energy Applications. Electronics (Switzerland), 2022, 11, 2014.	3.1	3
61	An innovative technique for energy storage system management based on vanadium redox batteries. , 2015, , .		2
62	Integration of DG sources for compensation of unbalanced loads in the power grid. , 2015, , .		2
63	EV charging scheduler for overloading prevention of a distribution transformer supplying a factory. , 2016, , .		2
64	Hybrid time triggered protocol for home wireless communications. , 2017, , .		2
65	Neural-Network Based Modeling of I/O Buffer Predriver under Power/Ground Supply Voltage Variations. Sensors, 2021, 21, 6074.	3.8	2
66	A Symbiotic Organism Search-Based Selective Harmonic Elimination in a Switched Capacitor Multilevel Inverter. Energies, 2022, 15, 89.	3.1	2
67	Assessing Lead-Acid battery design parameters for energy storage applications on insular grids: A case study of Crete and S&#x00E3;o Miguel islands. , 2015, , .		1
68	Stable operation of distributed generation units in microgrid networks. , 2015, , .		1
69	Comparison of battery models for energy storage applications on insular grids. , 2015, , .		1
70	EV charging effect on a distribution transformer supplying a factory with local PV generation. , 2017, , .		1
71	Influence of Large Renewable Energy Integration on Insular Grid Code Compliance. IFIP Advances in Information and Communication Technology, 2015, , 296-308.	0.7	1
72	Experimental Wireless Wattmeter for Home Energy Management Systems. IFIP Advances in Information and Communication Technology, 2015, , 327-336.	0.7	1

#	ARTICLE	IF	CITATIONS
73	Assessment on baseline and higher order grid security criteria: Prospects for insular grid applications. , 2014, , .		0
74	New schedule management approach of energy storage system in insular power system. , 2015, , .		0
75	Stable operation of grid-interfacing converter during the operation of active power filters in power grids. , 2015, , .		0
76	Weekend charging impact of EVs on a residential distribution transformer in a Portuguese Island. , 2016, , .		0
77	Novel methodology for integrated analog front-end signal processing blocks based portable multifunctional sensor for biomedical applications. , 2016, , .		0
78	Modified Newton type algorithm-based frequency and phase estimation technique in harmonics-polluted grid. , 2017, , .		0
79	Control of Modular Multilevel Converters Under Loading Variations in Distributed Generation Applications. , 2018, , .		0