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List of Publications by Year
in descending order

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23	555	759233 12	752698 20
papers	citations	h-index	g-index

23	23	23	506
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental analysis of the effects of supercapacitor banks in a renewable DC microgrid. Applied Energy, 2022, 308, 118355.	10.1	14
2	Battery-based storage systems in high voltage-DC bus microgrids. A real-time charging algorithm to improve the microgrid performance. Journal of Energy Storage, 2022, 48, 103935.	8.1	8
3	Integration of air-cooled multi-stack polymer electrolyte fuel cell systems into renewable microgrids. International Journal of Electrical Power and Energy Systems, 2022, 142, 108305.	5.5	7
4	Optimal sizing of Battery and Hydrogen Energy Storage Systems configurations in a Hybrid Renewable Microgrid. E3S Web of Conferences, 2021, 238, 09002.	0.5	2
5	A model-based parametric and optimal sizing of a battery/hydrogen storage of a real hybrid microgrid supplying a residential load: Towards island operation. Advances in Applied Energy, 2021, 3, 100048.	13.2	35
6	Integration of a Multi-Stack Fuel Cell System in Microgrids: A Solution Based on Model Predictive Control. Energies, 2020, 13, 4924.	3.1	11
7	ResUHUrge: A Low Cost and Fully Functional Ventilator Indicated for Application in COVID-19 Patients. Sensors, 2020, 20, 6774.	3.8	7
8	Hybrid Intelligent Modelling in Renewable Energy Sources-Based Microgrid. A Variable Estimation of the Hydrogen Subsystem Oriented to the Energy Management Strategy. Sustainability, 2020, 12, 10566.	3.2	4
9	Extended Model Predictive Controller to Develop Energy Management Systems in Renewable Source-Based Smart Microgrids with Hydrogen as Backup. Theoretical Foundation and Case Study. Sustainability, 2020, 12, 8969.	3.2	12
10	Hydrogen vs. Battery in the Long-term Operation. A Comparative Between Energy Management Strategies for Hybrid Renewable Microgrids. Electronics (Switzerland), 2020, 9, 698.	3.1	19
11	An Optimized Balance of Plant for a Medium-Size PEM Electrolyzer: Design, Control and Physical Implementation. Electronics (Switzerland), 2020, 9, 871.	3.1	25
12	A suitable state-space model for renewable source-based microgrids with hydrogen as backup for the design of energy management systems. Energy Conversion and Management, 2020, 219, 113053.	9.2	31
13	Multi-Objective Fuzzy Logic-Based Energy Management System for Microgrids with Battery and Hydrogen Energy Storage System. Electronics (Switzerland), 2020, 9, 1074.	3.1	33
14	Hy2Green: Remote laboratory of hydrogen technologies as an e-learning tool for training new professionals adapted to the new European energy model. IFAC-PapersOnLine, 2020, 53, 17556-17563.	0.9	1
15	Cell voltage monitoring All-in-One. A new low cost solution to perform degradation analysis on air-cooled polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 2019, 44, 12842-12856.	7.1	21
16	Air-cooled fuel cells: Keys to design and build the oxidant/cooling system. Renewable Energy, 2018, 125, 1-20.	8.9	62
17	A review of energy management strategies for renewable hybrid energy systems with hydrogen backup. Renewable and Sustainable Energy Reviews, 2018, 82, 126-155.	16.4	191
18	From the cell to the stack. A chronological walk through the techniques to manufacture the PEFCs core. Renewable and Sustainable Energy Reviews, 2018, 96, 29-45.	16.4	34

#	Article	IF	Citations
19	H2RES2 simulator. A new solution for hydrogen hybridization with renewable energy sources-based systems. International Journal of Hydrogen Energy, 2017, 42, 13510-13531.	7.1	22
20	How the BoP configuration affects the performance in an air-cooled polymer electrolyte fuel cell. Keys to design the best configuration. International Journal of Hydrogen Energy, 2017, 42, 12841-12855.	7.1	12
21	A review of bop configurations for PEFCs. Experimental study of a suitable topology. , 2016, , .		0
22	Configuration of a Fuel Cell system. Clues to choose between a modular or single stack-based design. , 2016, , .		1
23	A proposal of energy management strategy on hybrid renewable system with hydrogen backup. , 2016, , .		3