

Francisco JosÃ© Vivas FernÃ¡ndez

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

555
citations

759233

12
h-index

752698

20
g-index

23
all docs

23
docs citations

23
times ranked

506
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of energy management strategies for renewable hybrid energy systems with hydrogen backup. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 126-155.	16.4	191
2	Air-cooled fuel cells: Keys to design and build the oxidant/cooling system. <i>Renewable Energy</i> , 2018, 125, 1-20.	8.9	62
3	A model-based parametric and optimal sizing of a battery/hydrogen storage of a real hybrid microgrid supplying a residential load: Towards island operation. <i>Advances in Applied Energy</i> , 2021, 3, 100048.	13.2	35
4	From the cell to the stack. A chronological walk through the techniques to manufacture the PEFCs core. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 96, 29-45.	16.4	34
5	Multi-Objective Fuzzy Logic-Based Energy Management System for Microgrids with Battery and Hydrogen Energy Storage System. <i>Electronics (Switzerland)</i> , 2020, 9, 1074.	3.1	33
6	A suitable state-space model for renewable source-based microgrids with hydrogen as backup for the design of energy management systems. <i>Energy Conversion and Management</i> , 2020, 219, 113053.	9.2	31
7	An Optimized Balance of Plant for a Medium-Size PEM Electrolyzer: Design, Control and Physical Implementation. <i>Electronics (Switzerland)</i> , 2020, 9, 871.	3.1	25
8	H2RES2 simulator. A new solution for hydrogen hybridization with renewable energy sources-based systems. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13510-13531.	7.1	22
9	Cell voltage monitoring All-in-One. A new low cost solution to perform degradation analysis on air-cooled polymer electrolyte fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 12842-12856.	7.1	21
10	Hydrogen vs. Battery in the Long-term Operation. A Comparative Between Energy Management Strategies for Hybrid Renewable Microgrids. <i>Electronics (Switzerland)</i> , 2020, 9, 698.	3.1	19
11	Experimental analysis of the effects of supercapacitor banks in a renewable DC microgrid. <i>Applied Energy</i> , 2022, 308, 118355.	10.1	14
12	How the BoP configuration affects the performance in an air-cooled polymer electrolyte fuel cell. Keys to design the best configuration. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 12841-12855.	7.1	12
13	Extended Model Predictive Controller to Develop Energy Management Systems in Renewable Source-Based Smart Microgrids with Hydrogen as Backup. <i>Theoretical Foundation and Case Study. Sustainability</i> , 2020, 12, 8969.	3.2	12
14	Integration of a Multi-Stack Fuel Cell System in Microgrids: A Solution Based on Model Predictive Control. <i>Energies</i> , 2020, 13, 4924.	3.1	11
15	Battery-based storage systems in high voltage-DC bus microgrids. A real-time charging algorithm to improve the microgrid performance. <i>Journal of Energy Storage</i> , 2022, 48, 103935.	8.1	8
16	ResUHUrge: A Low Cost and Fully Functional Ventilator Indicated for Application in COVID-19 Patients. <i>Sensors</i> , 2020, 20, 6774.	3.8	7
17	Integration of air-cooled multi-stack polymer electrolyte fuel cell systems into renewable microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , 2022, 142, 108305.	5.5	7
18	Hybrid Intelligent Modelling in Renewable Energy Sources-Based Microgrid. A Variable Estimation of the Hydrogen Subsystem Oriented to the Energy Management Strategy. <i>Sustainability</i> , 2020, 12, 10566.	3.2	4

#	ARTICLE	IF	CITATIONS
19	A proposal of energy management strategy on hybrid renewable system with hydrogen backup. , 2016, , .		3
20	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
21	Configuration of a Fuel Cell system. Clues to choose between a modular or single stack-based design. , 2016, , .		1
22	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
23	A review of bop configurations for PEFCs. Experimental study of a suitable topology. , 2016, , .		0