

Joonas Koponen

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

492
citations

759055

12
h-index

1199470

12
g-index

19
all docs

19
docs citations

19
times ranked

462
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation methodology for an off-grid solar“battery”water electrolyzer plant: Simultaneous optimization of component capacities and system control. Applied Energy, 2022, 307, 118157.	5.1	18
2	Comparison of thyristor and insulated-gate bipolar transistor -based power supply topologies in industrial water electrolysis applications. Journal of Power Sources, 2021, 491, 229443.	4.0	19
3	Power quality estimation of water electrolyzers based on current and voltage measurements. Journal of Power Sources, 2020, 450, 227603.	4.0	19
4	Effect of power quality on the design of proton exchange membrane water electrolysis systems. Applied Energy, 2020, 279, 115791.	5.1	22
5	Power quality and reactive power of water electrolyzers supplied with thyristor converters. Journal of Power Sources, 2020, 459, 228075.	4.0	26
6	Capturing CO2 from air: Technical performance and process control improvement. Journal of CO2 Utilization, 2019, 30, 232-239.	3.3	50
7	Implementing a power source to study the effect of power quality on the PEM water electrolyzer stack. , 2019, , .		2
8	Effect of power quality on PEM fuel cells and water electrolyzers: A literature review with Watson Discovery. , 2019, , .		1
9	Effect of Converter Topology on the Specific Energy Consumption of Alkaline Water Electrolyzers. IEEE Transactions on Power Electronics, 2019, 34, 6171-6182.	5.4	65
10	Design and implementation of a power-hardware-in-loop simulator for water electrolysis emulation. Renewable Energy, 2018, 119, 106-115.	4.3	13
11	Power-to-X technology using renewable electricity and carbon dioxide from ambient air: SOLETAIR proof-of-concept and improved process concept. Journal of CO2 Utilization, 2018, 28, 235-246.	3.3	99
12	PEM water electrolyzer model for a power-hardware-in-loop simulator. International Journal of Hydrogen Energy, 2017, 42, 10775-10784.	3.8	52
13	Control and energy efficiency of PEM water electrolyzers in renewable energy systems. International Journal of Hydrogen Energy, 2017, 42, 29648-29660.	3.8	68
14	Considering the power quality in the power-hardware-in-loop simulation of the water electrolyzers. , 2017, , .		0
15	Hardware-in-loop emulator for water electrolyzers. , 2016, , .		3
16	Optimization strategies of PEM electrolyser as part of solar PV system. , 2016, , .		6
17	Specific energy consumption of PEM water electrolyzers in atmospheric and pressurised conditions. , 2016, , .		7
18	On- and off-grid laboratory test setup for hydrogen production with solar energy in nordic conditions. , 2015, , .		6

#	ARTICLE	IF	CITATIONS
19	Energy efficiency optimizing speed control method for reservoir pumping applications. Energy Efficiency, 2015, 8, 117-128.	1.3	16