Giulio Guandalini

List of Publications by Year
in descending order

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21 papers	844 citations	687220 13 h-index	794469 19 g-index
22 all docs	22 docs citations	22 times ranked	995 citing authors

#	Article	IF	Citations
1	Flexible Power & Biomass-to-Methanol plants: Design optimization and economic viability of the electrolysis integration. Fuel, 2022, 310, 122113.	3.4	18
2	Flexible Power and Biomass-To-Methanol Plants With Different Gasification Technologies. Frontiers in Energy Research, 2022, 9, .	1.2	14
3	Design of hybrid power-to-power systems for continuous clean PV-based energy supply. International Journal of Hydrogen Energy, 2021, 46, 13691-13708.	3.8	23
4	The Potential of Power and Biomass-to-X Systems in the Decarbonization Challenge: a Critical Review. Current Sustainable/Renewable Energy Reports, 2021, 8, 242-252.	1.2	15
5	Sizing and operation of energy storage by Power-to-Gas and Underwater Compressed Air systems applied to offshore wind power generation. E3S Web of Conferences, 2021, 312, 01007.	0.2	3
6	â€œPotential carbon efficiencyâ€•as a new index to track the performance of biofuels production processes. Biomass and Bioenergy, 2020, 142, 105618.	2.9	12
7	Energy performance and well-to-wheel analysis of different powertrain solutions for freight transportation. International Journal of Hydrogen Energy, 2020, 45, 12535-12554.	3.8	20
8	Fuel cells: opportunities and challenges. Studies in Surface Science and Catalysis, 2020, , 335-358.	1.5	4
9	Preliminary Design and Performance Assessment of an Underwater Compressed Air Energy Storage System for Wind Power Balancing. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	0.5	9
10	Modeling, Development, and Testing of a 2 MW Polymeric Electrolyte Membrane Fuel Cell Plant Fueled With Hydrogen From a Chlor-Alkali Industry. Journal of Electrochemical Energy Conversion and Storage, 2019, 16, .	1.1	15
11	A sequential approach for the economic evaluation of new CO2 capture technologies for power plants. International Journal of Greenhouse Gas Control, 2019, 84, 219-231.	2.3	27
12	Well-to-wheel driving cycle simulations for freight transportation: battery and hydrogen fuel cell electric vehicles. , 2018, , .		7
13	Modelling the integrated power and transport energy system: The role of power-to-gas and hydrogen in long-term scenarios for Italy. Energy, 2018, 154, 592-601.	4.5	79
14	Dynamic modeling of natural gas quality within transport pipelines in presence of hydrogen injections. Applied Energy, 2017, 185, 1712-1723.	5.1	116
15	Long-term power-to-gas potential from wind and solar power: A country analysis for Italy. International Journal of Hydrogen Energy, 2017, 42, 13389-13406.	3.8	95
16	Comparative assessment and safety issues in state-of-the-art hydrogen production technologies. International Journal of Hydrogen Energy, 2016, 41, 18901-18920.	3.8	44
17	Dynamic Quality Tracking of Natural Gas and Hydrogen Mixture in a Portion of Natural Gas Grid. Energy Procedia, 2015, 75, 1037-1043.	1.8	18
18	Wind Power Plant and Power-to-Gas System Coupled With Natural Gas Grid Infrastructure: Techno-Economic Optimization of Operation. , 2015, , .		3

#	Article	IF	Citations
19	Power-to-gas plants and gas turbines for improved wind energy dispatchability: Energy and economic assessment. Applied Energy, 2015, 147, 117-130.	5.1	261
20	Comparison of Gas Turbines and Power-to-Gas Plants for Improved Wind Park Energy Dispatchability. , 2014, , .		3
21	Modeling an alkaline electrolysis cell through reduced-order and loss-estimate approaches. Journal of Power Sources, 2014, 269, 203-211.	4.0	57