

Domenico Ferrero

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,232
citations

331259

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377514

34
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37
all docs

37
docs citations

37
times ranked

1224
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of hydrogen in the optimal design of off-grid hybrid renewable energy systems. Journal of Energy Storage, 2022, 46, 103893.	3.9	70
2	Pressurized PEM water electrolysis: Dynamic modelling focusing on the cathode side. International Journal of Hydrogen Energy, 2022, 47, 4315-4327.	3.8	24
3	Techno-economic feasibility analysis of Renewable-fed Power-to-Power (P2P) systems for small French islands. Energy Conversion and Management, 2022, 255, 115368.	4.4	16
4	Life cycle environmental analysis of a hydrogen-based energy storage system for remote applications. Energy Reports, 2022, 8, 5080-5092.	2.5	24
5	Torsional behaviour of a glass-ceramic joined alumina coated Crofer 22 APU steel. Ceramics International, 2022, 48, 25368-25373.	2.3	1
6	Electrical characterization of glass-ceramic sealant-metallic interconnect joined samples under solid oxide electrolysis cell conditions; influence on the microstructure and composition at the different polarized interfaces. Ceramics International, 2021, 47, 8184-8190.	2.3	9
7	CFD model for tubular SOFC directly fed by biomass. International Journal of Hydrogen Energy, 2021, 46, 17421-17434.	3.8	39
8	Effect of different pre-treatment methods on gasification properties of grass biomass. Renewable Energy, 2021, 170, 875-883.	4.3	22
9	Optimal design of stand-alone solutions based on RES+hydrogen storage feeding off-grid communities. Energy Conversion and Management, 2021, 238, 114147.	4.4	68
10	An MILP approach for the optimal design of renewable battery-hydrogen energy systems for off-grid insular communities. Energy Conversion and Management, 2021, 245, 114564.	4.4	56
11	Simulation of two-step redox recycling of non-stoichiometric ceria with thermochemical dissociation of CO ₂ /H ₂ O in moving bed reactors – Part I: Model development with redox kinetics and sensitivity analysis. Chemical Engineering Science, 2020, 226, 114873.	1.9	4
12	Glass-Ceramic Sealants for SOEC: Thermal Characterization and Electrical Resistivity in Dual Atmosphere. Energies, 2020, 13, 3682.	1.6	9
13	A study of the techno-economic feasibility of H ₂ -based energy storage systems in remote areas. Energy Conversion and Management, 2020, 211, 112768.	4.4	57
14	Energy and environmental analysis of a flexible Power-to-X plant based on Reversible Solid Oxide Cells (rSOCs) for an urban district. Journal of Energy Storage, 2020, 29, 101314.	3.9	22
15	Multilevel modeling of solid oxide electrolysis. , 2020, , 123-166.		2
16	Power-to-X and power-to-power routes. , 2019, , 529-557.		18
17	Reversible Solid Oxide Cell (ReSOC) as flexible polygeneration plant integrated with CO ₂ capture and reuse. E3S Web of Conferences, 2019, 113, 02009.	0.2	1
18	Simulation of two-step redox recycling of non-stoichiometric ceria with thermochemical dissociation of CO ₂ /H ₂ O in moving bed reactors – Part II: Techno-economic analysis and integration with 100-MW oxyfuel power plant with carbon capture. Chemical Engineering Science, 2019, 205, 358-373.	1.9	11

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19	Benefits from heat pipe integration in H ₂ /H ₂ O fed SOFC systems. <i>Applied Energy</i> , 2019, 241, 472-482.	5.1	21
20	Techno-economic and exergy analysis of polygeneration plant for power and DME production with the integration of chemical looping CO ₂ /H ₂ O splitting. <i>Energy Conversion and Management</i> , 2019, 186, 200-219.	4.4	48
21	Thermodynamic assessment of non-catalytic Ceria for syngas production by methane reduction and CO ₂ +H ₂ O oxidation. <i>Materials for Renewable and Sustainable Energy</i> , 2019, 8, 1.	1.5	4
22	Techno-economic modelling of a Power-to-Gas system based on SOEC electrolysis and CO ₂ methanation in a RES-based electric grid. <i>Chemical Engineering Journal</i> , 2019, 377, 120233.	6.6	93
23	Design and characterization of novel glass-ceramic sealants for solid oxide electrolysis cell (<sc>SOEC</sc>) applications. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 999-1010.	1.1	28
24	CO ₂ methanation over Ni/Al hydrotalcite-derived catalyst: Experimental characterization and kinetic study. <i>Fuel</i> , 2018, 225, 230-242.	3.4	69
25	Assessment of kinetic model for ceria oxidation for chemical-looping CO ₂ dissociation. <i>Chemical Engineering Journal</i> , 2018, 346, 171-181.	6.6	22
26	Electrochemical performance of solid oxide fuel cell: Experimental study and calibrated model. <i>Energy</i> , 2018, 142, 932-943.	4.5	57
27	Techno-economic and exergetic assessment of an oxy-fuel power plant fueled by syngas produced by chemical looping CO ₂ and H ₂ O dissociation. <i>Journal of CO₂ Utilization</i> , 2018, 27, 500-517.	3.3	37
28	Reporting Degradation from Different Fuel Contaminants in Ni-anode SOFCs. <i>Fuel Cells</i> , 2017, 17, 423-433.	1.5	31
29	Energy System Analysis of SOFC Systems. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2017, , 223-264.	0.3	1
30	Investigation of a novel concept for hydrogen production by PEM water electrolysis integrated with multi-junction solar cells. <i>Energy Conversion and Management</i> , 2017, 148, 16-29.	4.4	74
31	DOE Methodologies for Analysis of Large SOFC Systems. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2017, , 265-289.	0.3	0
32	Solid Oxide Fuel Cells Modeling. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2017, , 291-342.	0.3	4
33	Power-to-Gas Hydrogen: Techno-economic Assessment of Processes towards a Multi-purpose Energy Carrier. <i>Energy Procedia</i> , 2016, 101, 50-57.	1.8	70
34	Impedance spectroscopy analysis inspired by evolutionary programming as a diagnostic tool for SOEC and SOFC. <i>Solid State Ionics</i> , 2016, 288, 307-310.	1.3	32
35	Reversible operation of solid oxide cells under electrolysis and fuel cell modes: Experimental study and model validation. <i>Chemical Engineering Journal</i> , 2015, 274, 143-155.	6.6	71
36	Thermal design, modeling and validation of a steam-reforming reactor for fuel cell applications. <i>Chemical Engineering Research and Design</i> , 2015, 104, 503-512.	2.7	14

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37	A comparative assessment on hydrogen production from low- and high-temperature electrolysis. International Journal of Hydrogen Energy, 2013, 38, 3523-3536.	3.8	103