Stefano Stendardo

List of Publications by Year
in descending order

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36	818	430874	501196
papers	citations	18 h-index	28 g-index

36	36	36	811
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modelling and design of a novel calcination reactor integrated with a CO2 capture process for intensified hydrogen production. Fuel Processing Technology, 2022, 231, 107253.	7.2	5
2	Evaluating the Carbon Footprint of Cement Plants Integrated With the Calcium Looping CO2 Capture Process. Frontiers in Sustainability, 2022, 3, .	2.6	8
3	Decarbonizing cement plants via a fully integrated calcium looping-molten carbonate fuel cell process: Assessment of a model for fuel cell performance predictions under different operating conditions. International Journal of Hydrogen Energy, 2021, 46, 14988-15007.	7.1	11
4	Assessment of a Carbonation-Based CO₂ Utilization Process for the Valorization of CFBC Ash. Industrial & Engineering Chemistry Research, 2021, 60, 10814-10825.	3.7	2
5	One-Pot Synthesis of Ni0.05Ce0.95O2â˜Î´ Catalysts with Nanocubes and Nanorods Morphology for CO2 Methanation Reaction and in Operando DRIFT Analysis of Intermediate Species. Processes, 2021, 9, 1899.	2.8	5
6	An Innovative Calcium Looping Process as Energy Storage System Integrated With a Solar-Powered Supercritical CO2 Brayton Cycle. Frontiers in Sustainability, 2021, 2, .	2.6	2
7	Sorption enhanced steam methane reforming by <scp>Ni</scp>/<scp>CaO</scp>/mayenite combined systems: Overview of experimental results from <scp>E</scp>uropean research project <scp>ASCENT</scp>. Canadian Journal of Chemical Engineering, 2020, 98, 1907-1923.	1.7	21
8	CaOâ€“CaZrO3 Mixed Oxides Prepared by Autoâ€“Combustion for High Temperature CO2 Capture: The Effect of CaO Content on Cycle Stability. Metals, 2020, 10, 750.	2.3	7
9	Solar-Powered Rankine Cycle Assisted by an Innovative Calcium Looping Process as an Energy Storage System. Industrial & Engineering Chemistry Research, 2020, 59, 6977-6993.	3.7	10
10	A novel Carbon Capture and Utilisation concept applied to the ceramic industry. E3S Web of Conferences, 2019, 116, 00069.	0.5	1
11	Numerical simulation of a bubbling fluidized bed reactor for sorption-enhanced steam methane reforming under industrially relevant conditions: Effect of sorbent (dolomite and CaO-Ca12Al14O33) and operational parameters. Fuel Processing Technology, 2019, 186, 137-148.	7.2	32
12	Novel synthesis of combined CaO-Ca12Al14O33-Ni sorbent-catalyst material for sorption enhanced steam reforming processes. Ceramics International, 2019, 45, 7594-7605.	4.8	32
13	Preparation of CaO-based sorbent from coal fly ash cenospheres for calcium looping process. Journal of Alloys and Compounds, 2019, 801, 123-129.	5.5	24
14	Fluidized bed reactor assisted by Oxygen Transport Membranes: Numerical simulation and experimental hydrodynamic study. Chemical Engineering Journal, 2019, 377, 120323.	12.7	7
15	Carbonation of BOF Slag in a Rotary Kiln Reactor in View of the Scaleâ€Up of the Wet Route Process. Environmental Progress and Sustainable Energy, 2019, 38, e13140.	2.3	14
16	3D-CFD simulation of catalytic filter candles for particulate abatement and tar and methane steam reforming inside the freeboard of a gasifier. Chemical Engineering Journal, 2019, 377, 120290.	12.7	7
17	Integration of a calcium looping process (CaL) to molten carbonate fuel cells (MCFCs), as carbon concentration system: First findings. Journal of CO2 Utilization, 2018, 25, 14-21.	6.8	10
18	Pyrolysis of WEEE plastics using catalysts produced from fly ash of coal gasification. Frontiers of Environmental Science and Engineering, 2017, 11, 1.	6.0	46

#	Article	IF	Citations
19	Computationally efficient CFD model for scale-up of bubbling fluidized bed reactors applied to sorption-enhanced steam methane reforming. Fuel Processing Technology, 2017, 167, 747-761.	7.2	29
20	Carbonation of Steel Slag: Testing of the Wet Route in a Pilot-scale Reactor. Energy Procedia, 2017, 114, 5381-5392.	1.8	24
21	Sorption enhanced steam methane reforming on catalyst-sorbent bifunctional particles: A CFD fluidized bed reactor model. Chemical Engineering Science, 2017, 173, 428-442.	3.8	25
22	Granulationâ€“Carbonation Treatment of Alkali Activated Steel Slag for Secondary Aggregates Production. Waste and Biomass Valorization, 2017, 8, 1381-1391.	3.4	19
23	Hydrogen by sorption enhanced methane reforming: A grain model to study the behavior of bi-functional sorbent-catalyst particles. Chemical Engineering Science, 2016, 149, 22-34.	3.8	45
24	High quality syngas production via steam-oxygen blown bubbling fluidised bed gasifier. Energy, 2016, 103, 697-708.	8.8	22
25	Influence of temperature on oxygen permeation through ion transport membrane to feed a biomass gasifier. Journal of Physics: Conference Series, 2015, 655, 012034.	0.4	3
26	Characterization and density separation of coal gasification residues generated from the Zecomix research infrastructure. Fuel Processing Technology, 2015, 139, 204-215.	7.2	2
27	Oxygen transport by ionic membranes: Correlation of permeation data and prediction of char burning in a membrane-assisted biomass gasification process. Chemical Engineering and Processing: Process Intensification, 2015, 94, 39-52.	3.6	12
28	Increasing CO2 carrying capacity of dolomite by means of thermal stabilization by triggered calcination. Chemical Engineering Journal, 2015, 262, 18-28.	12.7	30
29	Experimental evaluation of Mg- and Ca-based synthetic sorbents for CO2 capture. Chemical Engineering Research and Design, 2014, 92, 727-740.	5.6	19
30	Comparison of global models of sub-bituminous coal devolatilization by means of thermogravimetric analysis. Journal of Thermal Analysis and Calorimetry, 2014, 117, 507.	3.6	20
31	The Italian ZECOMIX Platform: CO₂ Capture on Calcined Dolomite in Fluidized Bed Carbonator Unit. Natural Resources, 2014, 05, 433-441.	0.4	0
32	Self-activation and effect of regeneration conditions in CO2â€“carbonate looping with CaOâ€“Ca12Al14O33 sorbent. Chemical Engineering Journal, 2013, 220, 383-394.	12.7	102
33	CO2 capture with calcined dolomite: the effect of sorbent particle size. Biomass Conversion and Biorefinery, 2011, 1, 149-161.	4.6	20
34	Carbon dioxide capture with dolomite: A model for gasâ€“solid reaction within the grains of a particulate sorbent. Chemical Engineering Science, 2009, 64, 2343-2352.	3.8	123
35	Possible optimal configurations for the ZECOMIX high efficiency zero emission hydrogen and power plant. Energy, 2008, 33, 952-962.	8.8	25
36	CO2 capture by means of dolomite in hydrogen production from syn gas. International Journal of Hydrogen Energy, 2008, 33, 3049-3055.	7.1	54