

Stefano Stendardo

List of Publications by Year in descending order

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36
papers

818
citations

430874

18
h-index

501196

28
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36
all docs

36
docs citations

36
times ranked

811
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon dioxide capture with dolomite: A model for gas–solid reaction within the grains of a particulate sorbent. <i>Chemical Engineering Science</i> , 2009, 64, 2343-2352.	3.8	123
2	Self-activation and effect of regeneration conditions in CO ₂ –carbonate looping with CaO–Ca ₁₂ Al ₁₄ O ₃₃ sorbent. <i>Chemical Engineering Journal</i> , 2013, 220, 383-394.	12.7	102
3	CO ₂ capture by means of dolomite in hydrogen production from syn gas. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 3049-3055.	7.1	54
4	Pyrolysis of WEEE plastics using catalysts produced from fly ash of coal gasification. <i>Frontiers of Environmental Science and Engineering</i> , 2017, 11, 1.	6.0	46
5	Hydrogen by sorption enhanced methane reforming: A grain model to study the behavior of bi-functional sorbent-catalyst particles. <i>Chemical Engineering Science</i> , 2016, 149, 22-34.	3.8	45
6	Numerical simulation of a bubbling fluidized bed reactor for sorption-enhanced steam methane reforming under industrially relevant conditions: Effect of sorbent (dolomite and CaO–Ca ₁₂ Al ₁₄ O ₃₃) and operational parameters. <i>Fuel Processing Technology</i> , 2019, 186, 137-148.	7.2	32
7	Novel synthesis of combined CaO–Ca ₁₂ Al ₁₄ O ₃₃ –Ni sorbent-catalyst material for sorption enhanced steam reforming processes. <i>Ceramics International</i> , 2019, 45, 7594-7605.	4.8	32
8	Increasing CO ₂ carrying capacity of dolomite by means of thermal stabilization by triggered calcination. <i>Chemical Engineering Journal</i> , 2015, 262, 18-28.	12.7	30
9	Computationally efficient CFD model for scale-up of bubbling fluidized bed reactors applied to sorption-enhanced steam methane reforming. <i>Fuel Processing Technology</i> , 2017, 167, 747-761.	7.2	29
10	Possible optimal configurations for the ZECOMIX high efficiency zero emission hydrogen and power plant. <i>Energy</i> , 2008, 33, 952-962.	8.8	25
11	Sorption enhanced steam methane reforming on catalyst-sorbent bifunctional particles: A CFD fluidized bed reactor model. <i>Chemical Engineering Science</i> , 2017, 173, 428-442.	3.8	25
12	Carbonation of Steel Slag: Testing of the Wet Route in a Pilot-scale Reactor. <i>Energy Procedia</i> , 2017, 114, 5381-5392.	1.8	24
13	Preparation of CaO-based sorbent from coal fly ash cenospheres for calcium looping process. <i>Journal of Alloys and Compounds</i> , 2019, 801, 123-129.	5.5	24
14	High quality syngas production via steam-oxygen blown bubbling fluidised bed gasifier. <i>Energy</i> , 2016, 103, 697-708.	8.8	22
15	Sorption enhanced steam methane reforming by Ni/CaO/mayenite combined systems: Overview of experimental results from European research project ASCENT. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 1907-1923.	1.7	21
16	CO ₂ capture with calcined dolomite: the effect of sorbent particle size. <i>Biomass Conversion and Biorefinery</i> , 2011, 1, 149-161.	4.6	20
17	Comparison of global models of sub-bituminous coal devolatilization by means of thermogravimetric analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 507.	3.6	20
18	Experimental evaluation of Mg- and Ca-based synthetic sorbents for CO ₂ capture. <i>Chemical Engineering Research and Design</i> , 2014, 92, 727-740.	5.6	19

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19	Granulationâ€“Carbonation Treatment of Alkali Activated Steel Slag for Secondary Aggregates Production. <i>Waste and Biomass Valorization</i> , 2017, 8, 1381-1391.	3.4	19
20	Carbonation of BOF Slag in a Rotary Kiln Reactor in View of the Scaleâ€“Up of the Wet Route Process. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, e13140.	2.3	14
21	Oxygen transport by ionic membranes: Correlation of permeation data and prediction of char burning in a membrane-assisted biomass gasification process. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 94, 39-52.	3.6	12
22	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. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 14988-15007.	7.1	11
23	Integration of a calcium looping process (CaL) to molten carbonate fuel cells (MCFCs), as carbon concentration system: First findings. <i>Journal of CO2 Utilization</i> , 2018, 25, 14-21.	6.8	10
24	Solar-Powered Rankine Cycle Assisted by an Innovative Calcium Looping Process as an Energy Storage System. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6977-6993.	3.7	10
25	Evaluating the Carbon Footprint of Cement Plants Integrated With the Calcium Looping CO2 Capture Process. <i>Frontiers in Sustainability</i> , 2022, 3, .	2.6	8
26	Fluidized bed reactor assisted by Oxygen Transport Membranes: Numerical simulation and experimental hydrodynamic study. <i>Chemical Engineering Journal</i> , 2019, 377, 120323.	12.7	7
27	3D-CFD simulation of catalytic filter candles for particulate abatement and tar and methane steam reforming inside the freeboard of a gasifier. <i>Chemical Engineering Journal</i> , 2019, 377, 120290.	12.7	7
28	CaOâ€“CaZrO3 Mixed Oxides Prepared by Autoâ€“Combustion for High Temperature CO2 Capture: The Effect of CaO Content on Cycle Stability. <i>Metals</i> , 2020, 10, 750.	2.3	7
29	One-Pot Synthesis of Ni0.05Ce0.95O2â€“ Catalysts with Nanocubes and Nanorods Morphology for CO2 Methanation Reaction and in Operando DRIFT Analysis of Intermediate Species. <i>Processes</i> , 2021, 9, 1899.	2.8	5
30	Modelling and design of a novel calcination reactor integrated with a CO2 capture process for intensified hydrogen production. <i>Fuel Processing Technology</i> , 2022, 231, 107253.	7.2	5
31	Influence of temperature on oxygen permeation through ion transport membrane to feed a biomass gasifier. <i>Journal of Physics: Conference Series</i> , 2015, 655, 012034.	0.4	3
32	Characterization and density separation of coal gasification residues generated from the Zecomix research infrastructure. <i>Fuel Processing Technology</i> , 2015, 139, 204-215.	7.2	2
33	Assessment of a Carbonation-Based CO₂ Utilization Process for the Valorization of CFBC Ash. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 10814-10825.	3.7	2
34	An Innovative Calcium Looping Process as Energy Storage System Integrated With a Solar-Powered Supercritical CO2 Brayton Cycle. <i>Frontiers in Sustainability</i> , 2021, 2, .	2.6	2
35	A novel Carbon Capture and Utilisation concept applied to the ceramic industry. <i>E3S Web of Conferences</i> , 2019, 116, 00069.	0.5	1
36	The Italian ZECOMIX Platform: CO₂ Capture on Calcined Dolomite in Fluidized Bed Carbonator Unit. <i>Natural Resources</i> , 2014, 05, 433-441.	0.4	0