

Stefan Penthor

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

393
citations

687220

13
h-index

752573

20
g-index

20
all docs

20
docs citations

20
times ranked

352
citing authors

#	ARTICLE	IF	CITATIONS
1	The different demands of oxygen carriers on the reactor system of a CLC plant – Results of oxygen carrier testing in a 120 kWth pilot plant. <i>Applied Energy</i> , 2015, 157, 323-329.	5.1	53
2	Investigation of the performance of a copper based oxygen carrier for chemical looping combustion in a 120 kW pilot plant for gaseous fuels. <i>Applied Energy</i> , 2015, 145, 52-59.	5.1	43
3	Chemical-looping combustion of raw syngas from biomass steam gasification – Coupled operation of two dual fluidized bed pilot plants. <i>Fuel</i> , 2014, 127, 178-185.	3.4	34
4	Fate of sulfur in chemical looping combustion of gaseous fuels using a copper-based oxygen carrier. <i>International Journal of Greenhouse Gas Control</i> , 2018, 71, 86-94.	2.3	34
5	Unsteady three-dimensional theoretical model and numerical simulation of a 120-kW chemical looping combustion pilot plant. <i>Chemical Engineering Science</i> , 2019, 193, 102-119.	1.9	29
6	Fluidized bed reactor design study for pressurized chemical looping combustion of natural gas. <i>Powder Technology</i> , 2017, 316, 569-577.	2.1	28
7	Fate of sulfur in chemical looping combustion of gaseous fuels using a Perovskite oxygen carrier. <i>Fuel</i> , 2019, 241, 432-441.	3.4	28
8	Detailed fluid dynamic investigations of a novel fuel reactor concept for chemical looping combustion of solid fuels. <i>Powder Technology</i> , 2016, 287, 61-69.	2.1	22
9	The EU-FP7 Project SUCCESS – Scale-up of Oxygen Carrier for Chemical Looping Combustion using Environmentally Sustainable Materials. <i>Energy Procedia</i> , 2017, 114, 395-406.	1.8	21
10	Chemical Looping Combustion Using Two Different Perovskite Based Oxygen Carriers: A Pilot Study. <i>Energy Technology</i> , 2018, 6, 2333-2343.	1.8	16
11	Concept Study for Competitive Power Generation from Chemical Looping Combustion of Natural Gas. <i>Energy Technology</i> , 2016, 4, 1299-1304.	1.8	15
12	Investigation of the fate of nitrogen in chemical looping combustion of gaseous fuels using two different oxygen carriers. <i>Energy</i> , 2020, 195, 116926.	4.5	15
13	Estimation of the solid circulation rate in circulating fluidized bed systems. <i>Powder Technology</i> , 2018, 336, 1-11.	2.1	13
14	Fluid dynamic evaluation of a 10-MW scale reactor design for chemical looping combustion of gaseous fuels. <i>Chemical Engineering Science</i> , 2018, 178, 48-60.	1.9	11
15	Dual fluidized bed based technologies for carbon dioxide reduction – example hot metal production. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 159-168.	2.9	8
16	Evaluation of a new DCFB reactor system for chemical looping combustion of gaseous fuels. <i>Applied Energy</i> , 2019, 255, 113697.	5.1	6
17	Influence of the loop seal fluidization on the operation of a fluidized bed reactor system. <i>Powder Technology</i> , 2019, 352, 422-435.	2.1	6
18	Optimization of the Loop Seal in the Counter-Current Reactor of the Dual Circulating Fluidized Bed System for Chemical Looping Processes. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 16374-16383.	1.8	5

#	ARTICLE	IF	CITATIONS
19	Experimental Study of the Path of Nitrogen in Chemical Looping Combustion Using a Nickel-Based Oxygen Carrier. Energy & Fuels, 2014, 28, 6604-6609.	2.5	4
20	Influencing the solid fraction distribution in a circulating fluidized bed system using differently shaped internals. Chemical Engineering Research and Design, 2019, 146, 449-463.	2.7	2