

Stefan Penthor

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

393
citations

686830

13
h-index

752256

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g-index

20
all docs

20
docs citations

20
times ranked

352
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | Evaluation of a new DCFB reactor system for chemical looping combustion of gaseous fuels. <i>Applied Energy</i> , 2019, 255, 113697. | 5.1 | 6 |
| 5 | 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 |
| 6 | Influencing the solid fraction distribution in a circulating fluidized bed system using differently shaped internals. <i>Chemical Engineering Research and Design</i> , 2019, 146, 449-463. | 2.7 | 2 |
| 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 | 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 |
| 9 | 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 |
| 10 | Estimation of the solid circulation rate in circulating fluidized bed systems. <i>Powder Technology</i> , 2018, 336, 1-11. | 2.1 | 13 |
| 11 | Chemical Looping Combustion Using Two Different Perovskite Based Oxygen Carriers: A Pilot Study. <i>Energy Technology</i> , 2018, 6, 2333-2343. | 1.8 | 16 |
| 12 | Fluidized bed reactor design study for pressurized chemical looping combustion of natural gas. <i>Powder Technology</i> , 2017, 316, 569-577. | 2.1 | 28 |
| 13 | 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 |
| 14 | Concept Study for Competitive Power Generation from Chemical Looping Combustion of Natural Gas. <i>Energy Technology</i> , 2016, 4, 1299-1304. | 1.8 | 15 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | Experimental Study of the Path of Nitrogen in Chemical Looping Combustion Using a Nickel-Based Oxygen Carrier. <i>Energy & Fuels</i> , 2014, 28, 6604-6609. | 2.5 | 4 |