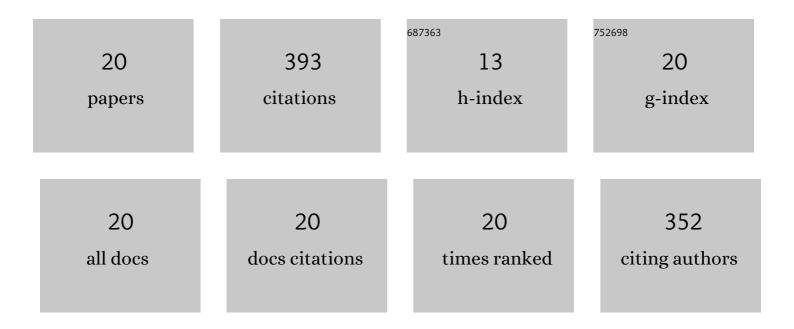
Stefan Penthor

List of Publications by Year in descending order

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STEEAN DENTHOD

| # | 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. Applied Energy, 2015, 157, 323-329. | 10.1 | 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. Applied Energy, 2015, 145, 52-59. | 10.1 | 43 |
| 3 | Chemical-looping combustion of raw syngas from biomass steam gasification – Coupled operation of two dual fluidized bed pilot plants. Fuel, 2014, 127, 178-185. | 6.4 | 34 |
| 4 | Fate of sulfur in chemical looping combustion of gaseous fuels using a copper-based oxygen carrier. International Journal of Greenhouse Gas Control, 2018, 71, 86-94. | 4.6 | 34 |
| 5 | Unsteady three-dimensional theoretical model and numerical simulation of a 120-kW chemical looping combustion pilot plant. Chemical Engineering Science, 2019, 193, 102-119. | 3.8 | 29 |
| 6 | Fluidized bed reactor design study for pressurized chemical looping combustion of natural gas. Powder Technology, 2017, 316, 569-577. | 4.2 | 28 |
| 7 | Fate of sulfur in chemical looping combustion of gaseous fuels using a Perovskite oxygen carrier. Fuel, 2019, 241, 432-441. | 6.4 | 28 |
| 8 | Detailed fluid dynamic investigations of a novel fuel reactor concept for chemical looping combustion of solid fuels. Powder Technology, 2016, 287, 61-69. | 4.2 | 22 |
| 9 | The EU-FP7 Project SUCCESS – Scale-up of Oxygen Carrier for Chemical Looping Combustion using Environmentally Sustainable Materials. Energy Procedia, 2017, 114, 395-406. | 1.8 | 21 |
| 10 | Chemical Looping Combustion Using Two Different Perovskite Based Oxygen Carriers: A Pilot Study. Energy Technology, 2018, 6, 2333-2343. | 3.8 | 16 |
| 11 | Concept Study for Competitive Power Generation from Chemical Looping Combustion of Natural Gas. Energy Technology, 2016, 4, 1299-1304. | 3.8 | 15 |
| 12 | Investigation of the fate of nitrogen in chemical looping combustion of gaseous fuels using two different oxygen carriers. Energy, 2020, 195, 116926. | 8.8 | 15 |
| 13 | Estimation of the solid circulation rate in circulating fluidized bed systems. Powder Technology, 2018, 336, 1-11. | 4.2 | 13 |
| 14 | Fluid dynamic evaluation of a 10â€ [−] MW scale reactor design for chemical looping combustion of gaseous fuels. Chemical Engineering Science, 2018, 178, 48-60. | 3.8 | 11 |
| 15 | Dual fluidized bed based technologies for carbon dioxide reduction — example hot metal production. Biomass Conversion and Biorefinery, 2021, 11, 159-168. | 4.6 | 8 |
| 16 | Evaluation of a new DCFB reactor system for chemical looping combustion of gaseous fuels. Applied Energy, 2019, 255, 113697. | 10.1 | 6 |
| 17 | Influence of the loop seal fluidization on the operation of a fluidized bed reactor system. Powder Technology, 2019, 352, 422-435. | 4.2 | 6 |
| 18 | Optimization of the Loop Seal in the Counter-Current Reactor of the Dual Circulating Fluidized Bed System for Chemical Looping Processes. Industrial & Engineering Chemistry Research, 2014, 53, 16374-16383. | 3.7 | 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. | 5.1 | 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. | 5.6 | 2 |