

# Stefan MÃ¼ller

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

719  
citations

567281

15  
h-index

552781

26  
g-index

28  
all docs

28  
docs citations

28  
times ranked

586  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual fluidized bed gasification of biomass with selective carbon dioxide removal and limestone as bed material: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 107, 212-231.	16.4	77
2	Fuel flexible gasification with an advanced 100 kW dual fluidized bed steam gasification pilot plant. <i>Energy</i> , 2018, 164, 329-343.	8.8	58
3	Influence of different bed material mixtures on dual fluidized bed steam gasification. <i>Energy</i> , 2018, 157, 957-968.	8.8	54
4	Advanced dual fluidized bed steam gasification of wood and lignite with calcite as bed material. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 2548-2558.	2.7	51
5	Experimental development of sorption enhanced reforming by the use of an advanced gasification test plant. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 29694-29707.	7.1	50
6	Fischer-Tropsch products from biomass-derived syngas and renewable hydrogen. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 2281-2292.	4.6	46
7	Syngas for biorefineries from thermochemical gasification of lignocellulosic fuels and residues: 5 years' experience with an advanced dual fluidized bed gasifier design. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 2405-2442.	4.6	40
8	Assessment of correlations between tar and product gas composition in dual fluidized bed steam gasification for online tar prediction. <i>Applied Energy</i> , 2019, 238, 1138-1149.	10.1	40
9	CO <sub>2</sub> gasification in a dual fluidized bed reactor system: Impact on the product gas composition. <i>Fuel</i> , 2019, 253, 1605-1616.	6.4	40
10	Dual fluidized bed steam gasification: Change of product gas quality along the reactor height. <i>Energy</i> , 2019, 173, 1256-1272.	8.8	36
11	Hydrogen from biomass: large-scale hydrogen production based on a dual fluidized bed steam gasification system. <i>Biomass Conversion and Biorefinery</i> , 2011, 1, 55-61.	4.6	33
12	The impact of gasification temperature on the process characteristics of sorption enhanced reforming of biomass. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 925-936.	4.6	30
13	The impact of bed material cycle rate on in-situ CO <sub>2</sub> removal for sorption enhanced reforming of different fuel types. <i>Energy</i> , 2018, 162, 35-44.	8.8	26
14	Production of diesel from biomass and wind power – Energy storage by the use of the Fischer-Tropsch process. <i>Biomass Conversion and Biorefinery</i> , 2018, 8, 275-282.	4.6	22
15	Evaluation of biomass-based production of below zero emission reducing gas for the iron and steel industry. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 169-187.	4.6	17
16	Direct-write deposition with a focused electron beam. <i>Microelectronic Engineering</i> , 2006, 83, 784-787.	2.4	13
17	Simulation of a Pilot Scale Power-to-Liquid Plant Producing Synthetic Fuel and Wax by Combining Fischer-Tropsch Synthesis and SOEC. <i>Energies</i> , 2022, 15, 4134.	3.1	11
18	Conversion of CO <sub>2</sub> during the DFB biomass gasification process. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 15-27.	4.6	10

#	ARTICLE	IF	CITATIONS
19	Thermodynamic investigation of SNG production based on dual fluidized bed gasification of biogenic residues. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 95-110.	4.6	10
20	CO <sub>2</sub> gasification of biogenic fuels in a dual fluidized bed reactor system. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 1101-1116.	4.6	9
21	A kinetic model of carbonation and calcination of limestone for sorption enhanced reforming of biomass. <i>International Journal of Greenhouse Gas Control</i> , 2019, 90, 102787.	4.6	8
22	Dual fluidized bed based technologies for carbon dioxide reduction – example hot metal production. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 159-168.	4.6	8
23	Experimental Demonstration and Validation of Hydrogen Production Based on Gasification of Lignocellulosic Feedstock. <i>ChemEngineering</i> , 2018, 2, 61.	2.4	7
24	Holistic assessment of oxygen carriers for chemical looping combustion based on laboratory experiments and validation in 80ÅkW pilot plant. <i>Fuel Processing Technology</i> , 2022, 231, 107249.	7.2	7
25	Hydrocarbon production by continuous hydrodeoxygenation of liquid phase pyrolysis oil with biogenous hydrogen rich synthesis gas. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1195-1207.	3.7	5
26	CPFD simulation of a dual fluidized bed cold flow model. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 189-203.	4.6	5
27	Innovative laboratory unit for pre-testing of oxygen carriers for chemical-looping combustion. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 5095-5106.	4.6	4
28	Sorption Enhanced Reforming of Different Fuel Types for the Production of a Hydrogen-Rich Reduction Gas. , 0, , .		2