

Matthias Schmitz

List of Publications by Year in descending order

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Version: 2024-02-01

10
papers

543
citations

933447

10
h-index

1372567

10
g-index

10
all docs

10
docs citations

10
times ranked

369
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical-looping combustion in a 100-kW unit using a mixture of ilmenite and manganese ore as oxygen carrier. <i>Fuel</i> , 2016, 166, 533-542.	6.4	91
2	Chemical-looping combustion of solid fuels in a 100 kW dual circulating fluidized bed system using iron ore as oxygen carrier. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 1029-1039.	6.7	78
3	Material balances of carbon, sulfur, nitrogen and ilmenite in a 100kW CLC reactor system. <i>International Journal of Greenhouse Gas Control</i> , 2014, 27, 188-202.	4.6	65
4	Performance of calcium manganate as oxygen carrier in chemical looping combustion of biochar in a 10 kW pilot. <i>Applied Energy</i> , 2016, 169, 729-737.	10.1	64
5	Use of Low-Volatile Solid Fuels in a 100 kW Chemical-Looping Combustor. <i>Energy & Fuels</i> , 2014, 28, 5942-5952.	5.1	60
6	Chemical looping combustion of biomass in 10- and 100-kW pilots – Analysis of conversion and lifetime using a sintered manganese ore. <i>Fuel</i> , 2018, 231, 73-84.	6.4	56
7	Chemical-looping combustion in a 100-kW unit using a mixture of synthetic and natural oxygen carriers – Operational results and fate of biomass fuel alkali. <i>International Journal of Greenhouse Gas Control</i> , 2019, 88, 371-382.	4.6	51
8	Chemical Looping Combustion of Sulphurous Solid Fuels Using Spray-dried Calcium Manganate Particles as Oxygen Carrier. <i>Energy Procedia</i> , 2014, 63, 140-152.	1.8	36
9	Chemical looping combustion of four different solid fuels using a manganese-silicon-titanium oxygen carrier. <i>International Journal of Greenhouse Gas Control</i> , 2018, 70, 88-96.	4.6	28
10	Estimating the solids circulation rate in a 100-kW chemical looping combustor. <i>Chemical Engineering Science</i> , 2017, 171, 351-359.	3.8	14