Stig Wedel

List of Publications by Year in descending order

18 papers	642 citations	687363 13 h-index	839539 18 g-index
18 all docs	18 docs citations	18 times ranked	708 citing authors

#	Article	IF	Citations
1	Decomposition and oxidation of pyrite. Progress in Energy and Combustion Science, 2006, 32, 295-314.	31.2	262
2	Ash transformation and deposit build-up during biomass suspension and grate firing: Full-scale experimental studies. Fuel Processing Technology, 2012, 97, 93-106.	7.2	66
3	Direct sulfation of limestone. AICHE Journal, 2007, 53, 948-960.	3.6	42
4	Optimization of a new flow design for solid oxide cells using computational fluid dynamics modelling. Journal of Power Sources, 2016, 336, 261-271.	7.8	39
5	A RATIONAL APPROXIMATION OF THE EFFECTIVENESS FACTOR. Chemical Engineering Communications, 1980, 7, 245-259.	2.6	36
6	Suspension-Firing of Biomass. Part 1: Full-Scale Measurements of Ash Deposit Build-up. Energy & Fuels, 2012, 26, 2317-2330.	5.1	28
7	Decomposition and Oxidation of Pyrite in a Fixed-Bed Reactor. Industrial & Engineering Chemistry Research, 2003, 42, 4290-4295.	3.7	27
8	Enhancement of the Direct Sulfation of Limestone by Alkali Metal Salts, Calcium Chloride, and Hydrogen Chloride. Industrial & Engineering Chemistry Research, 2007, 46, 5295-5303.	3.7	24
9	The kinetics of the photolytic production of aerosols from SO2 and NH3 in humid air. Chemical Engineering Science, 1994, 49, 4605-4614.	3.8	21
10	Suspension-Firing of Biomass. Part 2: Boiler Measurements of Ash Deposit Shedding. Energy & Fuels, 2012, 26, 5241-5255.	5.1	21
11	Steady-state multiplicity features of an adiabatic fixed-bed reactor with Langmuir-Hinshelwood kinetics; carbon monoxide or carbon dioxide methanation. Industrial & Engineering Chemistry Fundamentals, 1984, 23, 280-288.	0.7	17
12	Initial kinetics of the direct sulfation of limestone. AICHE Journal, 2008, 54, 2663-2673.	3.6	16
13	Oriented Nucleation and Growth of Anhydrite during Direct Sulfation of Limestone. Crystal Growth and Design, 2008, 8, 1181-1185.	3.0	14
14	The Formation of Porous Membranes by Filtration of Aerosol Nanoparticles. Journal of Nanoparticle Research, 2002, 4, 405-416.	1.9	12
15	Asymptotic stability of a catalyst particle. Chemical Engineering Science, 1977, 32, 179-190.	3.8	6
16	Initial reaction between CaO and SO2 under carbonating and non-carbonating conditions. Chemical Engineering Science, 2015, 134, 169-177.	3.8	6
17	Hydrogen chloride (HCl) absorption by raw meal and raw meal compounds, using in-situ HCl generation and TGA-FTIR tests. Journal of Environmental Chemical Engineering, 2019, 7, 102869.	6.7	3
18	Kinetics of the direct sulfation of limestone at the initial stage of crystal growth of the solid product. AICHE Journal, 2011, 57, 1607-1616.	3.6	2