Lei Chen

List of Publications by Citations

17 papers	1,221 citations	12 h-index	18 g-index
18 ext. papers	1,347 ext. citations	7.4 avg, IF	4.62 L-index

#	Paper	IF	Citations
17	Oxy-fuel combustion of pulverized coal: Characterization, fundamentals, stabilization and CFD modeling. *Progress in Energy and Combustion Science*, **2012**, 38, 156-214	33.6	690
16	Mercury emissions from six coal-fired power plants in China. *Fuel Processing Technology*, **2008**, 89, 1033-1040	7.2	98
15	Simulation of Oxy-Coal Combustion in a 100 kWth Test Facility Using RANS and LES: A Validation Study. *Energy & Fuels*, **2012**, 26, 4783-4798	4.1	89
14	Mercury transformation across particulate control devices in six power plants of China: The co-effect of chlorine and ash composition. *Fuel*, **2007**, 86, 603-610	7.1	80
13	Modeling the slag behavior in three dimensional CFD simulation of a vertically-oriented oxy-coal combustor. *Fuel Processing Technology*, **2013**, 112, 106-117	7.2	54
12	Study on emission of hazardous trace elements in a 350□MW coal-fired power plant. Part 1. Mercury. *Environmental Pollution*, **2017**, 229, 863-870	9.3	53
11	Gas evolution kinetics of two coal samples during rapid pyrolysis. *Fuel Processing Technology*, **2010**, 91, 848-852	7.2	35
10	Development of a three-dimensional computational slag flow model for coal combustion and gasification. *Fuel*, **2013**, 113, 357-366	7.1	26
9	The influence of gasification reactions on char consumption under oxy-combustion conditions: Effects of particle trajectory and conversion. *Proceedings of the Combustion Institute*, **2013**, 34, 3471-3478	5.9	21
8	Modeling CO2 Chemical Effects on CO Formation in Oxy-Fuel Diffusion Flames Using Detailed, Quasi-Global, and Global Reaction Mechanisms. *Combustion Science and Technology*, **2014**, 186, 829-848	1.5	17
7	Mercury speciation and its emissions from a 220 MW pulverized coal-fired boiler power plant in flue gas. *Korean Journal of Chemical Engineering*, **2007**, 24, 711-715	2.8	17
6	Advances in the development of wire mesh reactor for coal gasification studies. *Review of Scientific Instruments*, **2008**, 79, 084102	1.7	12
5	Three-dimensional CFD simulation of pattern formation in a shallow packed-bed reactor for oxidative coupling of methane. *Chemical Engineering Journal*, **2020**, 400, 125979	14.7	10
4	Experimental and numerical study of a two-stage natural gas combustion pyrolysis reactor for acetylene production: The role of delayed mixing. *Proceedings of the Combustion Institute*, **2019**, 37, 5715-5722	5.9	10
3	Thermodynamic Comprehension of the Effect of Basic Ash Compositions on Gaseous Mercury Transformation□ *Energy & Fuels*, **2007**, 21, 501-505	4.1	7
2	A Nonpremixed Annular Jet Vortex Chamber Reactor for Methane Pyrolysis under Oxygen-Enriched Conditions. *Industrial & Engineering Chemistry Research*, **2021**, 60, 7443-7453	3.9	2
1	Experimental and Computational Study of Natural Gas Pyrolysis in a Pilot-Scale Cracker. *Industrial & Engineering Chemistry Research*, **2021**, 60, 6993-7002	3.9	0