

Lei Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A Nonpremixed Annular Jet Vortex Chamber Reactor for Methane Pyrolysis under Oxygen-Enriched Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 7443-7453	3.9	2
16	Experimental and Computational Study of Natural Gas Pyrolysis in a Pilot-Scale Cracker. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 6993-7002	3.9	0
15	Three-dimensional CFD simulation of pattern formation in a shallow packed-bed reactor for oxidative coupling of methane. <i>Chemical Engineering Journal</i> , 2020 , 400, 125979	14.7	10
14	Experimental and numerical study of a two-stage natural gas combustion pyrolysis reactor for acetylene production: The role of delayed mixing. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 5715-5722	5.9	10
13	Study on emission of hazardous trace elements in a 350MW coal-fired power plant. Part 1. Mercury. <i>Environmental Pollution</i> , 2017 , 229, 863-870	9.3	53
12	Modeling CO ₂ Chemical Effects on CO Formation in Oxy-Fuel Diffusion Flames Using Detailed, Quasi-Global, and Global Reaction Mechanisms. <i>Combustion Science and Technology</i> , 2014 , 186, 829-848	1.5	17
11	Modeling the slag behavior in three dimensional CFD simulation of a vertically-oriented oxy-coal combustor. <i>Fuel Processing Technology</i> , 2013 , 112, 106-117	7.2	54
10	The influence of gasification reactions on char consumption under oxy-combustion conditions: Effects of particle trajectory and conversion. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 3471-3478	5.9	21
9	Development of a three-dimensional computational slag flow model for coal combustion and gasification. <i>Fuel</i> , 2013 , 113, 357-366	7.1	26
8	Oxy-fuel combustion of pulverized coal: Characterization, fundamentals, stabilization and CFD modeling. <i>Progress in Energy and Combustion Science</i> , 2012 , 38, 156-214	33.6	690
7	Simulation of Oxy-Coal Combustion in a 100 kWth Test Facility Using RANS and LES: A Validation Study. <i>Energy & Fuels</i> , 2012 , 26, 4783-4798	4.1	89
6	Gas evolution kinetics of two coal samples during rapid pyrolysis. <i>Fuel Processing Technology</i> , 2010 , 91, 848-852	7.2	35
5	Advances in the development of wire mesh reactor for coal gasification studies. <i>Review of Scientific Instruments</i> , 2008 , 79, 084102	1.7	12
4	Mercury emissions from six coal-fired power plants in China. <i>Fuel Processing Technology</i> , 2008 , 89, 1033-1040	10.4	98
3	Thermodynamic Comprehension of the Effect of Basic Ash Compositions on Gaseous Mercury Transformation. <i>Energy & Fuels</i> , 2007 , 21, 501-505	4.1	7
2	Mercury transformation across particulate control devices in six power plants of China: The co-effect of chlorine and ash composition. <i>Fuel</i> , 2007 , 86, 603-610	7.1	80
1	Mercury speciation and its emissions from a 220 MW pulverized coal-fired boiler power plant in flue gas. <i>Korean Journal of Chemical Engineering</i> , 2007 , 24, 711-715	2.8	17

