

Lei Chen

List of Publications by Year in descending order

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18
papers

1,437
citations

623574

14
h-index

839398

18
g-index

18
all docs

18
docs citations

18
times ranked

1253
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxy-fuel combustion of pulverized coal: Characterization, fundamentals, stabilization and CFD modeling. <i>Progress in Energy and Combustion Science</i> , 2012, 38, 156-214.	15.8	810
2	Mercury emissions from six coal-fired power plants in China. <i>Fuel Processing Technology</i> , 2008, 89, 1033-1040.	3.7	108
3	Simulation of Oxy-Coal Combustion in a 100 kW _{th} Test Facility Using RANS and LES: A Validation Study. <i>Energy & Fuels</i> , 2012, 26, 4783-4798.	2.5	104
4	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.	3.4	87
5	Study on emission of hazardous trace elements in a 350 MW coal-fired power plant. Part 1. Mercury. <i>Environmental Pollution</i> , 2017, 229, 863-870.	3.7	69
6	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.	3.7	61
7	Gas evolution kinetics of two coal samples during rapid pyrolysis. <i>Fuel Processing Technology</i> , 2010, 91, 848-852.	3.7	41
8	Development of a three-dimensional computational slag flow model for coal combustion and gasification. <i>Fuel</i> , 2013, 113, 357-366.	3.4	32
9	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.	2.4	22
10	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.	1.2	20
11	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.	1.2	18
12	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.	6.6	18
13	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.	2.4	16
14	Advances in the development of wire mesh reactor for coal gasification studies. <i>Review of Scientific Instruments</i> , 2008, 79, 084102.	0.6	14
15	Thermodynamic Comprehension of the Effect of Basic Ash Compositions on Gaseous Mercury Transformation. <i>Energy & Fuels</i> , 2007, 21, 501-505.	2.5	8
16	A Nonpremixed Annular Jet Vortex Chamber Reactor for Methane Pyrolysis under Oxygen-Enriched Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 7443-7453.	1.8	5
17	Novel Annular Jet Vortex Reactor for High-Temperature Thermochemical Conversion of Hydrocarbons to Acetylene. <i>ACS Engineering Au</i> , 2022, 2, 406-420.	2.3	3
18	Experimental and Computational Study of Natural Gas Pyrolysis in a Pilot-Scale Cracker. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 6993-7002.	1.8	1