Pengfei Li

List of Publications by Year
in descending order

44 papers	1,645 citations	304602 22 h-index	289141 40 g-index
44 all docs	44 docs citations	44 times ranked	647 citing authors

#	Article	IF	Citations
1	MILD oxy-combustion of gaseous fuels in a laboratory-scale furnace. Combustion and Flame, 2013, 160, 933-946.	2.8	193
2	Progress and recent trend in MILD combustion. Science China Technological Sciences, 2011, 54, 255-269.	2.0	133
3	Importance of Initial Momentum Rate and Air-Fuel Premixing on Moderate or Intense Low Oxygen Dilution (MILD) Combustion in a Recuperative Furnace. Energy & Fuels, 2009, 23, 5349-5356.	2.5	123
4	Experimental and numerical investigations on oxy-coal combustion in a 35 MW large pilot boiler. Fuel, 2017, 187, 315-327.	3.4	84
5	Emissions of NO and CO from counterflow combustion of CH4 under MILD and oxyfuel conditions. Energy, 2017, 124, 652-664.	4.5	76
6	Moderate or Intense Low-Oxygen Dilution Combustion of Methane Diluted by CO₂ and N₂. Energy & Fuels, 2015, 29, 4576-4585.	2.5	69
7	Impact of injection conditions on flame characteristics from a parallel multi-jet burner. Energy, 2011, 36, 6583-6595.	4.5	57
8	Combustion of CH4/O2/N2 in a well stirred reactor. Energy, 2014, 72, 242-253.	4.5	54
9	Influences of Reactant Injection Velocities on Moderate or Intense Low-Oxygen Dilution Coal Combustion. Energy & Fuels, 2014, 28, 369-384.	2.5	52
10	Nitric oxide of MILD combustion of a methane jet flame in hot oxidizer coflow: Its formations and emissions under H2O, CO2 and N2 dilutions. Fuel, 2018, 234, 567-580.	3.4	49
11	Premixed Moderate or Intense Low-Oxygen Dilution (MILD) Combustion from a Single Jet Burner in a Laboratory-Scale Furnace. Energy & Fuels, 2011, 25, 2782-2793.	2.5	47
12	Global reaction mechanisms for MILD oxy-combustion of methane. Energy, 2018, 147, 839-857.	4.5	46
13	Review on MILD Combustion of Gaseous Fuel: Its Definition, Ignition, Evolution, and Emissions. Energy & Fuels, 2021, 35, 7572-7607.	2.5	45
14	Numerical Simulation of Flameless Premixed Combustion with an Annular Nozzle in a Recuperative Furnace. Chinese Journal of Chemical Engineering, 2010, 18, 10-17.	1.7	38
15	A full spectrum k-distribution based non-gray radiative property model for fly ash particles. International Journal of Heat and Mass Transfer, 2018, 118, 103-115.	2.5	35
16	Evaluation, development, and validation of a new reduced mechanism for methane oxy-fuel combustion. International Journal of Greenhouse Gas Control, 2018, 78, 327-340.	2.3	35
17	Evaluation, development, and application of a new skeletal mechanism for fuel-NO formation under air and oxy-fuel combustion. Fuel Processing Technology, 2020, 199, 106256.	3.7	34
18	Effects of Pressure on the Characteristics of Bituminous Coal Pyrolysis Char Formed in a Pressurized Drop Tube Furnace. Energy & Fuels, 2019, 33, 12219-12226.	2.5	27

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19	Effects of total pressure and CO2 partial pressure on the physicochemical properties and reactivity of pressurized coal char produced at rapid heating rate. Energy, 2020, 208, 118297.	4.5	27
20	Comparative analysis of prediction models for methane potential based on spent edible fungus substrate. Bioresource Technology, 2020, 317, 124052.	4.8	27
21	New Dependence of NO Emissions on the Equivalence Ratio in Moderate or Intense Low-Oxygen Dilution Combustion. Energy & Fuels, 2018, 32, 12905-12918.	2.5	26
22	Re-Recognition of the MILD Combustion Regime by Initial Conditions of <i>T</i>_{in} and <i>X</i>_{O2} for Methane in a Nonadiabatic Well-Stirred Reactor. Energy & Fuels, 2020, 34, 2391-2404.	2.5	26
23	Optimal Equivalence Ratio to Minimize NO Emission during Moderate or Intense Low-Oxygen Dilution Combustion. Energy & Fuels, 2018, 32, 4478-4492.	2.5	24
24	A compatible configuration strategy for burner streams in a 200â€¯MWe tangentially fired oxy-fuel combustion boiler. Applied Energy, 2018, 220, 59-69.	5.1	23
25	Oxy-Fuel Combustion Characteristics of Pulverized Coal in a 3 MW Pilot-Scale Furnace. Energy & Fuels, 2018, 32, 10522-10529.	2.5	22
26	Comparative Study between Flameless Combustion and Swirl Flame Combustion Using Low Preheating Temperature Air for Homogeneous Fuel NO Reduction. Energy & Fuels, 2021, 35, 8181-8193.	2.5	22
27	Influence of Inlet Dilution of Reactants on Premixed Combustion in a Recuperative Furnace. Flow, Turbulence and Combustion, 2011, 87, 617-638.	1.4	21
28	A full spectrum k-distribution based non-gray radiative property model for unburnt char. Proceedings of the Combustion Institute, 2019, 37, 3081-3089.	2.4	21
29	Optimization of the Global Reaction Mechanism for MILD Combustion of Methane Using Artificial Neural Network. Energy & Fuels, 2020, 34, 3805-3815.	2.5	20
30	Detailed investigation of NO mechanism in non-premixed oxy-fuel jet flames with CH4/H2 fuelÂblends. International Journal of Hydrogen Energy, 2018, 43, 8534-8557.	3.8	19
31	Effects of gas and particle radiation on IFRF 2.5ÂMW swirling flame under oxy-fuel combustion. Fuel, 2020, 263, 116634.	3.4	18
32	Experiments and kinetic modeling of NO reburning by CH4 under high CO2 concentration in a jet-stirred reactor. Fuel, 2020, 270, 117476.	3.4	18
33	NO mechanisms of syngas MILD combustion diluted with N2, CO2, and H2O. International Journal of Hydrogen Energy, 2022, 47, 16649-16664.	3.8	18
34	Reaction Characteristics and MILD Combustion of Residual Char in a Pilot-Scale Furnace. Energy & Fuels, 2019, 33, 12791-12800.	2.5	16
35	A novel method to improve stability of MILD combustion in a highly heat-extracted furnace. Fuel, 2021, 292, 120315.	3.4	15
36	Experimental and Kinetic Study on the Oxidation of Syngas-Ammonia under Both N₂ and CO₂ Atmospheres in a Jet-Stirred Reactor. Energy & Fuels, 2021, 35, 11445-11456.	2.5	14

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37	MILD combustion of co-firing biomass and pulverized coal fuel blend for heterogeneous fuel NO and PM2.5 emission reduction. Fuel Processing Technology, 2022, 230, 107222.	3.7	13
38	Experimental investigation on co-firing residual char and pulverized coal under MILD combustion using low-temperature preheating air. Energy, 2022, 244, 122574.	4.5	12
39	Experimental and Numerical Study of the Fuel-NO_{<i>x</i>} Formation at High CO₂ Concentrations in a Jet-Stirred Reactor. Energy & Fuels, 2019, 33, 6797-6808.	2.5	11
40	Large Eddy Simulation of an Initially-Confined Triangular Oscillating Jet. Flow, Turbulence and Combustion, 2012, 88, 367-386.	1.4	10
41	Experimental and kinetic study of NO-reburning by syngas under high CO2 concentration in a jet stirred reactor. Fuel, 2021, 304, 121403.	3.4	10
42	A new skeletal mechanism for simulating MILD combustion optimized using Artificial Neural Network. Energy, 2021, 237, 121603.	4.5	9
43	Dynamic Modeling on the Mode Switching Strategy of a 35 MW_{th} Oxy-fuel Combustion Pilot Plant. Energy & Fuels, 2020, 34, 2260-2271.	2.5	6
44	NO Reburning by CH4-H2 Mixture under High CO2 Concentration in a Jet-Stirred Reactor. IOP Conference Series: Earth and Environmental Science, 0, 621, 012044.	0.2	0