

Yaojie Tu

List of Publications by Year in descending order

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39
papers

1,034
citations

430442

18
h-index

414034

32
g-index

39
all docs

39
docs citations

39
times ranked

621
citing authors

#	ARTICLE	IF	CITATIONS
1	Moderate or Intense Low-Oxygen Dilution Oxy-combustion Characteristics of Light Oil and Pulverized Coal in a Pilot-Scale Furnace. <i>Energy & Fuels</i> , 2014, 28, 1524-1535.	2.5	96
2	CFD and kinetic modelling study of methane MILD combustion in O ₂ /N ₂ , O ₂ /CO ₂ and O ₂ /H ₂ O atmospheres. <i>Applied Energy</i> , 2019, 240, 1003-1013.	5.1	67
3	Effects of furnace chamber shape on the MILD combustion of natural gas. <i>Applied Thermal Engineering</i> , 2015, 76, 64-75.	3.0	65
4	Decomposition and solid reactions of calcium sulfate doped with SiO ₂ , Fe ₂ O ₃ and Al ₂ O ₃ . <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 113, 491-498.	2.6	62
5	Numerical study of combustion characteristics for pulverized coal under oxy-MILD operation. <i>Fuel Processing Technology</i> , 2015, 135, 80-90.	3.7	62
6	Numerical study of H ₂ O addition effects on pulverized coal oxy-MILD combustion. <i>Fuel Processing Technology</i> , 2015, 138, 252-262.	3.7	61
7	MILD combustion of natural gas using low preheating temperature air in an industrial furnace. <i>Fuel Processing Technology</i> , 2017, 156, 72-81.	3.7	54
8	NO _x reduction in a 40 t/h biomass fired grate boiler using internal flue gas recirculation technology. <i>Applied Energy</i> , 2018, 220, 962-973.	5.1	54
9	Experimental investigation on premixed hydrogen/air combustion in varied size combustors inserted with porous medium for thermophotovoltaic system applications. <i>Energy Conversion and Management</i> , 2019, 200, 112086.	4.4	52
10	Flame Characteristics of CH ₄ /H ₂ on a Jet-in-Hot-Coflow Burner Diluted by N ₂ , CO ₂ , and H ₂ O. <i>Energy & Fuels</i> , 2017, 31, 3270-3280.	2.5	50
11	Effects of wall temperature on methane MILD combustion and heat transfer behaviors with non-preheated air. <i>Applied Thermal Engineering</i> , 2020, 174, 115282.	3.0	37
12	Numerical investigation of the effect of air supply and oxygen enrichment on the biomass combustion in the grate boiler. <i>Applied Thermal Engineering</i> , 2019, 156, 550-561.	3.0	34
13	Numerical study on a novel burner designed to improve MILD combustion behaviors at the oxygen enriched condition. <i>Applied Thermal Engineering</i> , 2019, 152, 686-696.	3.0	30
14	A two-step method for the integrated removal of HCl, SO ₂ and NO at low temperature using viscose-based activated carbon fibers modified by nitric acid. <i>Fuel</i> , 2019, 239, 272-281.	3.4	27
15	Experimental and numerical investigation on premixed H ₂ /C ₃ H ₈ /air combustion and thermal performance in a burner with partially filled porous media. <i>Fuel</i> , 2022, 328, 125227.	3.4	27
16	Re-Recognition of the MILD Combustion Regime by Initial Conditions of T_{in} and X_{O_2} for Methane in a Nonadiabatic Well-Stirred Reactor. <i>Energy & Fuels</i> , 2020, 34, 2391-2404.	2.5	26
17	Numerical simulation of propane MILD combustion in a lab-scale cylindrical furnace. <i>Fuel</i> , 2021, 290, 119858.	3.4	21
18	A numerical investigation on the injection timing of boot injection rate-shapes in a kerosene-diesel engine with a clustered dynamic adaptive chemistry method. <i>Applied Energy</i> , 2018, 220, 117-126.	5.1	20

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19	Thermochemical behavior of three sulfates (CaSO ₄ , K ₂ SO ₄ and Na ₂ SO ₄) blended with cement raw materials (CaO-SiO ₂ -Al ₂ O ₃ -Fe ₂ O ₃) at high temperature. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 142, 104617.	2.6	20
20	Numerical Study of Biomass Grate Boiler with Coupled Time-Dependent Fuel Bed Model and Computational Fluid Dynamics Based Freeboard Model. <i>Energy & Fuels</i> , 2018, 32, 9493-9505.	2.5	19
21	Influences of initial coal concentration on ignition behaviors of low-NO _x bias combustion technology. <i>Applied Energy</i> , 2020, 278, 115745.	5.1	19
22	A Refined Global Reaction Mechanism for Gently Preheated MILD Combustion of Methane. <i>Energy & Fuels</i> , 2017, 31, 10144-10157.	2.5	18
23	Numerical study of methane combustion under moderate or intense low-oxygen dilution regime at elevated pressure conditions up to 8 Åtm. <i>Energy</i> , 2020, 197, 117158.	4.5	17
24	Numerical study of HCN and NH ₃ reduction in a two-stage entrained flow gasifier by implementing MILD combustion. <i>Fuel</i> , 2019, 251, 482-495.	3.4	12
25	Detailed gas/particle flow characteristics of an improved down-fired boiler with respect to a critical factor affecting coal burnout: Vent-air inclination angle. <i>Energy</i> , 2019, 182, 570-584.	4.5	11
26	Physical and Chemical Effects of CO ₂ Addition on CH ₄ /H ₂ Flames on a Jet in Hot Coflow (JHC) Burner. <i>Energy & Fuels</i> , 2016, . .	2.5	9
27	Evaluation of ignition process and NO _x reduction of coal under moderate and intensive low-oxygen dilution combustion by implementing fuel-rich/lean technology. <i>Fuel</i> , 2021, 296, 120657.	3.4	9
28	Numerical study of fuel-NO formation and reduction in a reversed flow MILD combustion furnace firing ammonia-doped methane. <i>Energy</i> , 2022, 252, 124111.	4.5	9
29	Nonpremixed Air/Oxygen Jet Burner to Improve Moderate or Intense Low-Oxygen Dilution Combustion Characteristics in Oxygen-Enriched Conditions. <i>Energy & Fuels</i> , 2021, 35, 9609-9622.	2.5	8
30	On the Combination of fuel-rich/lean burner with MILD combustion for further NO _x emission reduction. <i>Energy Procedia</i> , 2019, 158, 1672-1677.	1.8	7
31	A numerical study of accelerated moderate or intense low-oxygen dilution (MILD) combustion stability for methane in a lab-scale furnace by off-stoichiometric combustion technology. <i>Chinese Journal of Chemical Engineering</i> , 2021, 32, 108-118.	1.7	7
32	A comparative study of methane MILD combustion in O ₂ /N ₂ , O ₂ /CO ₂ and O ₂ /H ₂ O. <i>Energy Procedia</i> , 2019, 158, 1473-1478.	1.8	6
33	Experimental and numerical study on the combustion of a 32 MW wood-chip grate boiler with internal flue gas recirculation technology. <i>Energy Procedia</i> , 2017, 143, 591-598.	1.8	5
34	Effect of biomass coal firing position on combustion and NO _x emission in a 300 MWe coal-fired tangential boiler. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2022, 17, e2734.	0.8	4
35	Effect of different operating conditions on the performance of a 32 MW woodchip-fired grate boiler. <i>Energy Procedia</i> , 2019, 158, 898-903.	1.8	3
36	Numerical study of further NO _x emission reduction for coal MILD combustion by combining fuel-rich/lean technology. <i>International Journal of Energy Research</i> , 2019, 43, 8492.	2.2	2

#	ARTICLE	IF	CITATIONS
37	Numerical investigation the effect of air supply on the biomass combustion in the grate boiler. Energy Procedia, 2019, 158, 272-277.	1.8	2
38	Performance of elemental mercury removal by activated char prepared from high-chlorine Turpan-Hami coal. Fuel, 2022, 307, 121817.	3.4	2
39	Numerical Study of MILD Combustion for Pulverized Coal in O ₂ /N ₂ , O ₂ /CO ₂ , and O ₂ /H ₂ O Atmospheres. , 2016, , 157-163.		0