

Zhaohui Liu

List of Publications by Year in descending order

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1842
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#	ARTICLE	IF	CITATIONS
1	Fully resolved simulations of viscoelastic suspensions by an efficient immersed boundary-lattice Boltzmann method. <i>Particuology</i> , 2023, 75, 26-49.	2.0	7
2	A particle-tracking image pyrometer for characterizing ignition of pulverized coal particles. <i>Fuel Processing Technology</i> , 2022, 225, 107065.	3.7	8
3	Experimental investigation on co-firing residual char and pulverized coal under MILD combustion using low-temperature preheating air. <i>Energy</i> , 2022, 244, 122574.	4.5	12
4	Effects of potassium additives on the combustion behavior of chrysanthemum biochar blended with graphite carbon as a heating source for heat-not-burn tobacco. <i>RSC Advances</i> , 2022, 12, 3431-3436.	1.7	0
5	Hydrodynamic resolved simulation of a char particle combustion by immersed boundary-lattice Boltzmann method. <i>International Communications in Heat and Mass Transfer</i> , 2022, 132, 105915.	2.9	4
6	A simple and efficient parallel immersed boundary-lattice Boltzmann method for fully resolved simulations of incompressible settling suspensions. <i>Computers and Fluids</i> , 2022, 237, 105322.	1.3	10
7	China's power transformation may drastically change employment patterns in the power sector and its upstream supply chains. <i>Environmental Research Letters</i> , 2022, 17, 065005.	2.2	10
8	Volatile Releasing Characteristics of Pulverized Coals under Moderate or Intense Low-Oxygen Dilution Oxy-Combustion Conditions in a Flat-Flame Assisted Entrained Flow Reactor. <i>Processes</i> , 2022, 10, 358.	1.3	2
9	NO mechanisms of syngas MILD combustion diluted with N ₂ , CO ₂ , and H ₂ O. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 16649-16664.	3.8	18
10	Tracing energy-water-greenhouse gas nexus in national supply chains: China 2017. <i>Journal of Cleaner Production</i> , 2022, 352, 131586.	4.6	3
11	MILD combustion of co-firing biomass and pulverized coal fuel blend for heterogeneous fuel NO and PM _{2.5} emission reduction. <i>Fuel Processing Technology</i> , 2022, 230, 107222.	3.7	13
12	Effects of Pressure and Coal Rank on the Oxy-Fuel Combustion of Pulverized Coal. <i>Energies</i> , 2022, 15, 265.	1.6	1
13	Inertial migration of aerosol particles in three-dimensional microfluidic channels. <i>Particuology</i> , 2021, 55, 23-34.	2.0	13
14	Research on the slagging behaviors of Shenhua coal in different combustion atmospheres. <i>Fuel</i> , 2021, 287, 118537.	3.4	10
15	Non-gray chemical composition based radiative property model of fly ash particles. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 4281-4290.	2.4	5
16	A full spectrum $k-\epsilon$ distribution-based weighted sum of gray gases model for pressurized oxy-fuel combustion. <i>International Journal of Energy Research</i> , 2021, 45, 3410-3420.	2.2	11
17	Effects of potassium additives on the combustion characteristics of graphite as a heating source of heat-not-burn tobacco. <i>RSC Advances</i> , 2021, 11, 1662-1667.	1.7	2
18	Comparative Study between Flameless Combustion and Swirl Flame Combustion Using Low Preheating Temperature Air for Homogeneous Fuel NO Reduction. <i>Energy & Fuels</i> , 2021, 35, 8181-8193.	2.5	22

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19	Electroosmotic Flow of Viscoelastic Fluid through a Constriction Microchannel. <i>Micromachines</i> , 2021, 12, 417.	1.4	23
20	Computational Modeling of Boundary Layer Flashback in a Swirling Stratified Flame Using a LES-Based Non-Adiabatic Tabulated Chemistry Approach. <i>Entropy</i> , 2021, 23, 567.	1.1	8
21	Experimental and Kinetic Study on the Oxidation of Syngas-Ammonia under Both N ₂ and CO ₂ Atmospheres in a Jet-Stirred Reactor. <i>Energy & Fuels</i> , 2021, 35, 11445-11456.	2.5	14
22	Experimental and kinetic study of NO-reburning by syngas under high CO ₂ concentration in a jet stirred reactor. <i>Fuel</i> , 2021, 304, 121403.	3.4	10
23	Assessment of weighted-sum-of-gray-gases models for gas-soot mixture in jet diffusion flames. <i>International Journal of Heat and Mass Transfer</i> , 2021, 181, 121907.	2.5	13
24	Experimental investigation on MILD combustion of co-firing biomass and pulverized coal fuel blend in a pilot-scale furnace. <i>The Proceedings of the International Conference on Power Engineering (ICOPE)</i> , 2021, 2021.15, 2021-0193.	0.0	0
25	A unified stochastic particle Bhatnagar-Gross-Krook method for multiscale gas flows. <i>Journal of Computational Physics</i> , 2020, 400, 108972.	1.9	37
26	Evaluation, development, and application of a new skeletal mechanism for fuel-NO formation under air and oxy-fuel combustion. <i>Fuel Processing Technology</i> , 2020, 199, 106256.	3.7	34
27	Experimental research on the characteristics of ash in oxy-fuel combustion. <i>Fuel</i> , 2020, 263, 116799.	3.4	21
28	Dynamic Modeling on the Mode Switching Strategy of a 35 MW _{th} Oxy-fuel Combustion Pilot Plant. <i>Energy & Fuels</i> , 2020, 34, 2260-2271.	2.5	6
29	Effects of gas and particle radiation on IFRF 2.5MW swirling flame under oxy-fuel combustion. <i>Fuel</i> , 2020, 263, 116634.	3.4	18
30	Experiments and kinetic modeling of NO reburning by CH ₄ under high CO ₂ concentration in a jet-stirred reactor. <i>Fuel</i> , 2020, 270, 117476.	3.4	18
31	A Benchmark Study of Kinetic Models for Shock Waves. <i>AIAA Journal</i> , 2020, 58, 2596-2608.	1.5	29
32	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
33	Tunable-Focus Liquid Lens through Charge Injection. <i>Micromachines</i> , 2020, 11, 109.	1.4	4
34	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
35	A full spectrum k-distribution based non-gray radiative property model for unburnt char. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 3081-3089.	2.4	21
36	Impact of a Coal-Fired Power Plant Shutdown Campaign on Heavy Metal Emissions in China. <i>Environmental Science & Technology</i> , 2019, 53, 14063-14069.	4.6	48

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37	Experimental and Numerical Study of the Fuel-NO _x Formation at High CO ₂ Concentrations in a Jet-Stirred Reactor. <i>Energy & Fuels</i> , 2019, 33, 6797-6808.	2.5	11
38	A boundary thickening-based direct forcing immersed boundary method for fully resolved simulation of particle-laden flows. <i>Journal of Computational Physics</i> , 2019, 390, 203-231.	1.9	25
39	Numerical simulation of oxy-fuel combustion characteristics in a 200 MWe coal-fired boiler. , 2019, 9, 276-286.		8
40	Experimental Study on Dust Removal of Flue Gas under O ₂ /CO ₂ Combustion. <i>Energy & Fuels</i> , 2019, 33, 12549-12557.	2.5	3
41	Experimental Investigation of Pressurized Combustion Characteristics of a Single Coal Particle in O ₂ /N ₂ and O ₂ /CO ₂ Environments. <i>Energy & Fuels</i> , 2019, 33, 12781-12790.	2.5	10
42	Reaction Characteristics and MILD Combustion of Residual Char in a Pilot-Scale Furnace. <i>Energy & Fuels</i> , 2019, 33, 12791-12800.	2.5	16
43	Influence of coherent vortex structures in subgrid scale motions on particle statistics in homogeneous isotropic turbulence. <i>International Journal of Multiphase Flow</i> , 2019, 113, 358-370.	1.6	11
44	Detailed investigation of NO mechanism in non-premixed oxy-fuel jet flames with CH ₄ /H ₂ fuel blends. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 8534-8557.	3.8	19
45	Global reaction mechanisms for MILD oxy-combustion of methane. <i>Energy</i> , 2018, 147, 839-857.	4.5	46
46	Optimal Equivalence Ratio to Minimize NO Emission during Moderate or Intense Low-Oxygen Dilution Combustion. <i>Energy & Fuels</i> , 2018, 32, 4478-4492.	2.5	24
47	Penetration, accumulation, and swing characteristics of particle cloud in a turbulent axisymmetric opposed-jet flow. <i>Powder Technology</i> , 2018, 329, 33-46.	2.1	1
48	Heat Transfer During Oxy-fuel Combustion and Boiler Design. , 2018, , 189-208.		1
49	A full spectrum k-distribution based non-gray radiative property model for fly ash particles. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 103-115.	2.5	35
50	A compatible configuration strategy for burner streams in a 200-MWe tangentially fired oxy-fuel combustion boiler. <i>Applied Energy</i> , 2018, 220, 59-69.	5.1	23
51	Prediction of the radiative heat transfer in small and large scale oxy-coal furnaces. <i>Applied Energy</i> , 2018, 211, 523-537.	5.1	35
52	The influence of sub-grid scale motions on particle collision in homogeneous isotropic turbulence. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2018, 34, 22-36.	1.5	5
53	New Dependence of NO Emissions on the Equivalence Ratio in Moderate or Intense Low-Oxygen Dilution Combustion. <i>Energy & Fuels</i> , 2018, 32, 12905-12918.	2.5	26
54	Fully resolved simulation of single-particle dynamics in a microcavity. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	1.0	20

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55	Evaluation, development, and validation of a new reduced mechanism for methane oxy-fuel combustion. <i>International Journal of Greenhouse Gas Control</i> , 2018, 78, 327-340.	2.3	35
56	Oxy-Fuel Combustion Characteristics of Pulverized Coal in a 3 MW Pilot-Scale Furnace. <i>Energy & Fuels</i> , 2018, 32, 10522-10529.	2.5	22
57	Opportunities and Challenges of Oxy-fuel Combustion. , 2018, , 1-12.		11
58	Pilot and Industrial Demonstration of Oxy-fuel Combustion. , 2018, , 209-222.		2
59	Control Concepts, Dynamic Behavior and Mode Transition Strategy for Oxy-fuel Combustion Systems. , 2018, , 239-262.		0
60	System Integration and Optimization for Large Scale Oxy-fuel Combustion Systems. , 2018, , 223-238.		0
61	Flame Characteristics of Oxy-fuel Combustion and Burner Design. , 2018, , 171-187.		1
62	Effect of catalysts on char structural evolution during hydrogasification under high pressure. <i>Fuel</i> , 2017, 188, 474-482.	3.4	47
63	Development of Zhundong subbituminous coal char structure during hydrogasification under high pressure. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4935-4942.	3.8	9
64	Mercury emission and speciation in fly ash from a 35 MW th large pilot boiler of oxyfuel combustion with different flue gas recycle. <i>Fuel</i> , 2017, 195, 174-181.	3.4	33
65	A numerical investigation on flame stability of oxy-coal combustion: Effects of blockage ratio, swirl number, recycle ratio and partial pressure ratio of oxygen. <i>International Journal of Greenhouse Gas Control</i> , 2017, 57, 63-72.	2.3	11
66	Computer-Controlled Scanning Electron Microscopy Investigation on Ash Formation Characteristics of a Calcium-Rich Coal under O ₂ /CO ₂ Environments. <i>Energy & Fuels</i> , 2017, 31, 319-327.	2.5	9
67	Numerical Investigation on Development of Initial Ash Deposition Layer for a High-Alkali Coal. <i>Energy & Fuels</i> , 2017, 31, 2596-2606.	2.5	25
68	A Particle Fokker-Planck Algorithm with Multiscale Temporal Discretization for Rarefied and Continuum Gas Flows. <i>Communications in Computational Physics</i> , 2017, 22, 338-374.	0.7	25
69	Experimental and Numerical Investigations on Heat Transfer Characteristics of a 35MW Oxy-fuel Combustion Boiler. <i>Energy Procedia</i> , 2017, 114, 481-489.	1.8	24
70	Experimental and numerical investigations on oxy-coal combustion in a 35 MW large pilot boiler. <i>Fuel</i> , 2017, 187, 315-327.	3.4	84
71	Eulerian and Lagrangian stagnation plane behavior of moderate Reynolds number round opposed-jets flow. <i>Computers and Fluids</i> , 2016, 133, 116-128.	1.3	5
72	Statistical simulation of molecular diffusion effect on turbulent tetrad dispersion. <i>International Journal of Heat and Mass Transfer</i> , 2016, 103, 87-98.	2.5	4

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73	Synthesis and characteristics of BaSrCoFe-based perovskite as a functional material for chemical looping gasification of coal. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 22846-22855.	3.8	25
74	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
75	Lattice Boltzmann simulation of two cold particles settling in Newtonian fluid with thermal convection. <i>International Journal of Heat and Mass Transfer</i> , 2016, 93, 477-490.	2.5	30
76	Experimental investigation on turbulence modification in a dilute gas-particle axisymmetric opposed jets flow. <i>Chemical Engineering Journal</i> , 2016, 286, 76-90.	6.6	15
77	Fundamental and Technical Challenges for a Compatible Design Scheme of Oxyfuel Combustion Technology. <i>Engineering</i> , 2015, 1, 139-149.	3.2	48
78	Effects of furnace chamber shape on the MILD combustion of natural gas. <i>Applied Thermal Engineering</i> , 2015, 76, 64-75.	3.0	65
79	Dynamic simulation and transient analysis of a 3MWth oxy-fuel combustion system. <i>International Journal of Greenhouse Gas Control</i> , 2015, 35, 138-149.	2.3	20
80	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
81	A full spectrum k-distribution based weighted-sum-of-gray-gases model for oxy-fuel combustion. <i>International Journal of Heat and Mass Transfer</i> , 2015, 90, 218-226.	2.5	57
82	Study on the evolution of the char structure during hydrogasification process using Raman spectroscopy. <i>Fuel</i> , 2015, 157, 97-106.	3.4	86
83	Numerical investigation on oxy-combustion characteristics of a 200MWe tangentially fired boiler. <i>Fuel</i> , 2015, 140, 660-668.	3.4	73
84	Exergy-based control strategy selection for flue gas recycle in oxy-fuel combustion plant. <i>Fuel</i> , 2015, 161, 87-96.	3.4	26
85	Simulating the interactions of two freely settling spherical particles in Newtonian fluid using lattice-Boltzmann method. <i>Applied Mathematics and Computation</i> , 2015, 250, 533-551.	1.4	24
86	Numerical study of combustion characteristics for pulverized coal under oxy-MILD operation. <i>Fuel Processing Technology</i> , 2015, 135, 80-90.	3.7	62
87	Numerical study of particle behavior in laminar axisymmetric opposed-jet flows. <i>Powder Technology</i> , 2015, 270, 176-184.	2.1	8
88	Statistical simulation of decaying and forced homogeneous isotropic turbulence. , 2014, , .		3
89	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
90	Dynamic Simulation of the Transition Process in a 3 MWth Oxy-fuel Test Facility. <i>Energy Procedia</i> , 2014, 63, 6281-6288.	1.8	6

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91	Chemical Looping Combustion of Petroleum Coke with $\text{CuFe}_{2}\text{O}_{4}$ as Oxygen Carrier. <i>Chemical Engineering and Technology</i> , 2013, 36, 1488-1495.	0.9	25
92	Preparation and Application of the SGCS-Made CaO/ZrO_{2} Sorbent for Cyclic CO_{2} Capture. , 2013, , 1189-1194.		0
93	Physical and Chemical Effects of CO_{2} and H_{2}O Additives on Counterflow Diffusion Flame Burning Methane. <i>Energy & Fuels</i> , 2013, 27, 7602-7611.	2.5	62
94	Emission of NO and SO_{2} in a 300 kW Pilot Scale O_{2}/RFG Combustion. , 2013, , 1005-1009.		2
95	Numerical Simulation of Temperature Field in Blast Furnace Gas Regenerative Furnace. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012, 9, 1248-1254.	0.4	0
96	Simulation of the flow around an upstream transversely oscillating cylinder and a stationary cylinder in tandem. <i>Physics of Fluids</i> , 2012, 24, .	1.6	13
97	Mathematical Modeling of Air and Oxy-COal Confined Swirling Flames on Two Extended Eddy-Dissipation Models. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 691-703.	1.8	26
98	Comparison of Different Global Combustion Mechanisms Under Hot and Diluted Oxidation Conditions. <i>Combustion Science and Technology</i> , 2012, 184, 259-276.	1.2	61
99	Lattice Boltzmann simulation of the convective heat transfer from a stream-wise oscillating circular cylinder. <i>International Journal of Heat and Fluid Flow</i> , 2012, 37, 147-153.	1.1	12
100	Passive scalar characteristics along inertial particle trajectory in turbulent non-isothermal flows. <i>Science China Technological Sciences</i> , 2012, 55, 2593-2600.	2.0	1
101	An experimental study on turbulence modification in the near-wall boundary layer of a dilute gas-particle channel flow. <i>Experiments in Fluids</i> , 2012, 53, 1385-1403.	1.1	47
102	Chemical looping combustion of a Chinese anthracite with $\text{Fe}_{2}\text{O}_{3}$ -based and CuO -based oxygen carriers. <i>Fuel Processing Technology</i> , 2012, 96, 104-115.	3.7	57
103	Subgrid-Scale Fluid Statistics along the Inertial Particle Trajectory in Isotropic Turbulence. <i>Chinese Physics Letters</i> , 2012, 29, 094701.	1.3	2
104	Investigation of Chemical Looping Combustion of Coal with $\text{CuFe}_{2}\text{O}_{4}$ Oxygen Carrier. <i>Energy & Fuels</i> , 2011, 25, 3344-3354.	2.5	114
105	Progress and recent trend in MILD combustion. <i>Science China Technological Sciences</i> , 2011, 54, 255-269.	2.0	133
106	Effects of hydrogen addition on entropy generation in ultra-lean counter-flow methane-air premixed combustion. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 3891-3902.	3.8	49
107	Analysis of entropy generation in non-premixed hydrogen versus heated air counter-flow combustion. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 4736-4746.	3.8	34
108	Natural convection and entropy generation in a vertically concentric annular space. <i>International Journal of Thermal Sciences</i> , 2010, 49, 2439-2452.	2.6	21

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109	Turbulence Modulations in the Boundary Layer of a Horizontal Particle-Laden Channel Flow. Chinese Physics Letters, 2010, 27, 064701.	1.3	6
110	Experimental Investigation on Turbulence Modulation in the Boundary Layer of a Horizontal Particle-laden Channel Flow with Relative Low Mass Loading Ratios. , 2010, , .		5
111	Scalar Statistics along Inertial Particle Trajectory in Isotropic Turbulence. , 2010, , .		0
112	Analysis of entropy generation in hydrogen-enriched ultra-lean counter-flow methane-air non-premixed combustion. International Journal of Hydrogen Energy, 2010, 35, 12491-12501.	3.8	34
113	A heuristic curved-boundary treatment in lattice Boltzmann method. Europhysics Letters, 2010, 92, 54003.	0.7	4
114	An economic feasibility study of O ₂ /CO ₂ recycle combustion technology based on existing coal-fired power plants in China. Fuel, 2009, 88, 1135-1142.	3.4	56
115	A simple lattice Boltzmann scheme for combustion simulation. Computers and Mathematics With Applications, 2008, 55, 1424-1432.	1.4	38
116	A NEW NUMERICAL APPROACH FOR FIRE SIMULATION. International Journal of Modern Physics C, 2007, 18, 187-202.	0.8	22
117	A novel coupled lattice Boltzmann model for low Mach number combustion simulation. Applied Mathematics and Computation, 2007, 193, 266-284.	1.4	60
118	Lattice Boltzmann scheme for simulating thermal micro-flow. Physica A: Statistical Mechanics and Its Applications, 2007, 385, 59-68.	1.2	54
119	A Novel Lattice Boltzmann Model For Reactive Flows with Fast Chemistry. Chinese Physics Letters, 2006, 23, 656-659.	1.3	10
120	Computation of gas-solid flows by finite difference Boltzmann equation. Applied Mathematics and Computation, 2006, 173, 33-49.	1.4	12
121	Experimental investigation on turbulence modification in a horizontal channel flow at relatively low mass loading. Acta Mechanica Sinica/Lixue Xuebao, 2006, 22, 99-108.	1.5	32
122	Effect of particle inertia on temperature statistics in particle-laden homogeneous isotropic turbulence. Science in China Series D: Earth Sciences, 2006, 49, 210-221.	0.9	6
123	A simple lattice Boltzmann scheme for low Mach number reactive flows. Science in China Series D: Earth Sciences, 2006, 49, 714-726.	0.9	2
124	THERMAL LATTICE BOLTZMANN MODEL WITH VISCOUS HEAT DISSIPATION IN THE INCOMPRESSIBLE LIMIT. International Journal of Modern Physics C, 2006, 17, 1131-1139.	0.8	5
125	LATTICE BOLTZMANN METHOD IN SIMULATION OF THERMAL MICRO-FLOW WITH TEMPERATURE JUMP. International Journal of Modern Physics C, 2006, 17, 603-614.	0.8	24
126	Kinetic mechanism studies on reactions of mercury and oxidizing species in coal combustion. Fuel, 2005, 84, 1215-1220.	3.4	49

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127	Particle behavior in homogeneous isotropic turbulence. Acta Mechanica Sinica/Lixue Xuebao, 2005, 21, 112-120.	1.5	12
128	A novel incompressible finite-difference lattice Boltzmann equation for particle-laden flow. Acta Mechanica Sinica/Lixue Xuebao, 2005, 21, 574-581.	1.5	17
129	Lattice-Boltzmann simulation of particle-laden flow over a backward-facing step. Chinese Physics B, 2004, 13, 1657-1664.	1.3	11
130	Simulation of Swirling Gas-Particle Flows Using Different Time Scales for the Closure of Two-Phase Velocity Correlation in the Second-Order Moment Two-Phase Turbulence Model1. Journal of Fluids Engineering, Transactions of the ASME, 2003, 125, 247-250.	0.8	9
131	Numerical and experimental investigations on the performance of a 300 MW pulverized coal furnace. Proceedings of the Combustion Institute, 2002, 29, 811-818.	2.4	13
132	A joint PDF model for turbulent spray evaporation/combustion. Proceedings of the Combustion Institute, 2002, 29, 561-568.	2.4	15
133	A second-order-moment Monte-Carlo model for simulating swirling gas-particle flows. Powder Technology, 2001, 120, 216-222.	2.1	13
134	Combustion Stability Assessment for Utility Pulverized Coal-Fired Boilers under Low Loads. Combustion Science and Technology, 2000, 157, 325-340.	1.2	1
135	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
136	A Pressure Compensation Method for Lattice Boltzmann Simulation of Particle-laden Flows in Periodic Geometries. Physics of Fluids, 0, , .	1.6	0