

Kun Luo

List of Publications by Year in descending order

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Version: 2024-02-01

305
papers

7,168
citations

81434

41
h-index

134545

62
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307
all docs

307
docs citations

307
times ranked

4435
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulated potential wind power sensitivity to the planetary boundary layer parameterizations combined with various topography datasets in the weather research and forecasting model. <i>Energy</i> , 2022, 239, 122047.	4.5	9
2	Particle behaviours of biomass gasification in a bubbling fluidized bed. <i>Chemical Engineering Journal</i> , 2022, 428, 131847.	6.6	46
3	Immersed boundary method for multiphase transport phenomena. <i>Reviews in Chemical Engineering</i> , 2022, 38, 363-405.	2.3	14
4	A refined wind farm parameterization for the weather research and forecasting model. <i>Applied Energy</i> , 2022, 306, 118082.	5.1	12
5	Predicting co-pyrolysis of coal and biomass using machine learning approaches. <i>Fuel</i> , 2022, 310, 122248.	3.4	45
6	Mathematical modeling of shear-activated targeted nanoparticle drug delivery for the treatment of aortic diseases. <i>Biomechanics and Modeling in Mechanobiology</i> , 2022, 21, 221-230.	1.4	8
7	Full-loop simulation of a 1 MWth pilot-scale chemical looping combustion system. <i>Chemical Engineering Science</i> , 2022, 249, 117301.	1.9	10
8	Hemodynamic effects of stent-graft introducer sheath during thoracic endovascular aortic repair. <i>Biomechanics and Modeling in Mechanobiology</i> , 2022, 21, 419-431.	1.4	8
9	Mesoscale simulations of a real onshore wind power base in complex terrain: Wind farm wake behavior and power production. <i>Energy</i> , 2022, 241, 122873.	4.5	30
10	Large Eddy Simulation of the Layout Effects on Wind Farm Performance Coupling With Wind Turbine Control Strategies. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022, 144, .	1.4	7
11	Three-dimensional simulation of a gas-fueled chemical looping combustion system with dual circulating fluidized bed reactors. <i>Energy</i> , 2022, 246, 123293.	4.5	7
12	Numerical Simulation of a 10 kW Gas-Fueled Chemical Looping Combustion Unit. <i>Energies</i> , 2022, 15, 1973.	1.6	2
13	The enhanced role of atmospheric reduced nitrogen deposition in future over East Asiaâ€œNorthwest Pacific. <i>Science of the Total Environment</i> , 2022, 833, 155146.	3.9	4
14	Three-dimensional modeling study of the oxy-fuel co-firing of coal and biomass in a bubbling fluidized bed. <i>Energy</i> , 2022, 247, 123496.	4.5	11
15	Particle-scale study of coal-direct chemical looping combustion (CLC). <i>Energy</i> , 2022, 250, 123859.	4.5	8
16	Experimental and Kinetic Studies on Tobacco Pyrolysis under a Wide Range of Heating Rates. <i>ACS Omega</i> , 2022, 7, 1420-1427.	1.6	8
17	Computational Prediction of Thrombosis in Food and Drug Administrationâ€™s Benchmark Nozzle. <i>Frontiers in Physiology</i> , 2022, 13, 867613.	1.3	4
18	Component quantification of aortic blood flow energy loss using computational fluid-structure interaction hemodynamics. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 221, 106826.	2.6	13

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19	Studies on a swirling heptane spray flame by large-eddy simulation. <i>Aerospace Science and Technology</i> , 2022, , 107632.	2.5	2
20	An improved direct-forcing immersed boundary method for simulations of flow and heat transfer in particle-laden flows. <i>International Journal of Multiphase Flow</i> , 2022, 153, 104139.	1.6	3
21	Recent advances in hybrid Eulerian-Lagrangian description of atomization. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 2071-2092.	0.9	0
22	Evaluation of the spatiotemporal unsteady characteristics of the tip leakage vortex based on a direct numerical simulation database. <i>Physics of Fluids</i> , 2022, 34, .	1.6	8
23	Diurnal impact of atmospheric stability on inter-farm wake and power generation efficiency at neighboring onshore wind farms in complex terrain. <i>Energy Conversion and Management</i> , 2022, 267, 115897.	4.4	23
24	The interaction between droplet evaporation and turbulence with interface-resolved direct numerical simulation. <i>Physics of Fluids</i> , 2022, 34, .	1.6	7
25	Bubble Dynamics and Particle Orientation in a Binary Fluidized Bed Containing Spherocylinders and Spheres. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 11209-11225.	1.8	2
26	The impact of the atmospheric turbulence-development tendency on new particle formation: a common finding on three continents. <i>National Science Review</i> , 2021, 8, nwaal157.	4.6	16
27	Analysis and development of novel data-driven drag models based on direct numerical simulations of fluidized beds. <i>Chemical Engineering Science</i> , 2021, 231, 116245.	1.9	27
28	Imposing mixed Dirichlet-Neumann-Robin boundary conditions on irregular domains in a level set/ghost fluid based finite difference framework. <i>Computers and Fluids</i> , 2021, 214, 104772.	1.3	4
29	Turbulence/flame/wall interactions in non-premixed inclined slot-jet flames impinging at a wall using direct numerical simulation. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 2711-2720.	2.4	8
30	Turbulence, evaporation and combustion interactions in heptane droplets under high pressure conditions using DNS. <i>Combustion and Flame</i> , 2021, 225, 417-427.	2.8	16
31	Large eddy simulation of Cambridge bluff-body coal (CCB2) flames with a flamelet progress variable model. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5347-5354.	2.4	2
32	A DNS study on temporally evolving jet flames of pulverized coal/biomass co-firing with different blending ratios. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 4005-4012.	2.4	10
33	A-priori and a-posteriori studies of a direct moment closure approach for turbulent combustion using DNS data of a premixed flame. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 3003-3011.	2.4	4
34	Direct numerical simulation of turbulence modulation by premixed flames in a model annular swirling combustor. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 3013-3020.	2.4	7
35	Direct numerical simulations of turbulent non-premixed flames: Assessment of turbulence within swirling flows. <i>Physics of Fluids</i> , 2021, 33, 015112.	1.6	8
36	2-D and 3-D measurements of flame stretch and turbulence-flame interactions in turbulent premixed flames using DNS. <i>Journal of Fluid Mechanics</i> , 2021, 913, .	1.4	11

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37	Unraveling Street-Level Air Pollution upon a Pivotal City of Yangtze River Delta, China. <i>Aerosol Science and Engineering</i> , 2021, 5, 166-192.	1.1	1
38	Deciphering wintertime air pollution upon the West Lake of Hangzhou, China. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021, 40, 5215-5223.	0.8	1
39	A priori assessment of convolutional neural network and algebraic models for flame surface density of high Karlovitz premixed flames. <i>Physics of Fluids</i> , 2021, 33, .	1.6	22
40	Predictive models for flame evolution using machine learning: <i>A priori</i> assessment in turbulent flames without and with mean shear. <i>Physics of Fluids</i> , 2021, 33, .	1.6	16
41	Effect of flame holder temperature on the instability modes of laminar premixed flames. <i>Fuel</i> , 2021, 293, 119628.	3.4	4
42	Direct numerical simulation of turbulent boundary layer premixed combustion under auto-ignitive conditions. <i>Combustion and Flame</i> , 2021, 228, 292-301.	2.8	15
43	Flame edge structures and dynamics in planar turbulent non-premixed inclined slot-jet flames impinging at a wall. <i>Journal of Fluid Mechanics</i> , 2021, 920, .	1.4	6
44	Direct numerical simulation of a supercritical hydrothermal flame in a turbulent jet. <i>Journal of Fluid Mechanics</i> , 2021, 922, .	1.4	4
45	Effects of tip clearance size on vortical structures and turbulence statistics in tip-leakage flows: A direct numerical simulation study. <i>Physics of Fluids</i> , 2021, 33, .	1.6	22
46	Analysis of the particles-induced turbulence in confined gas-solid fluidized beds by PR-DNS. <i>International Journal of Multiphase Flow</i> , 2021, 141, 103655.	1.6	4
47	A Priori Modeling of NO Formation with Principal Component Analysis and the Convolutional Neural Network in the Context of Large Eddy Simulation. <i>Energy & Fuels</i> , 2021, 35, 20272-20283.	2.5	4
48	Fluctuations of thermodynamic variables in compressible isotropic turbulence laden with inertial particles. <i>Physics of Fluids</i> , 2021, 33, .	1.6	5
49	An integrated fluid-chemical model toward modeling the thrombus formation in an idealized model of aortic dissection. <i>Computers in Biology and Medicine</i> , 2021, 136, 104709.	3.9	8
50	Effects of heat release on turbulence characteristics in a three-dimensional spatially developing supersonic droplet-laden mixing layer. <i>Fuel</i> , 2021, 301, 121030.	3.4	4
51	Fluid-structure interaction: Insights into biomechanical implications of endograft after thoracic endovascular aortic repair. <i>Computers in Biology and Medicine</i> , 2021, 138, 104882.	3.9	18
52	CFD-DEM analysis of hydraulic conveying bends: Interaction between pipe orientation and flow regime. <i>Powder Technology</i> , 2021, 392, 619-631.	2.1	35
53	Eulerian-Lagrangian simulation of chemical looping combustion with wide particle size distributions. <i>Chemical Engineering Science</i> , 2021, 245, 116849.	1.9	25
54	3D Unsteady Simulation of a Scale-Up Methanation Reactor with Interconnected Cooling Unit. <i>Energies</i> , 2021, 14, 7095.	1.6	1

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55	Three-Dimensional Simulation of the Methanation Process in a Circulating Fluidized-Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 16417-16429.	1.8	2
56	Direct numerical simulation of the flow around a sphere immersed in a flat-plate turbulent boundary layer. <i>Physics of Fluids</i> , 2021, 33, .	1.6	1
57	Decoding Tropospheric Ozone in Hangzhou, China: from Precursors to Sources. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2020, 56, 321-331.	1.3	7
58	Treatment of solid objects in the Pencil Code using an immersed boundary method and overset grids. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2020, 114, 35-57.	0.4	8
59	A comprehensive study of flamelet tabulation methods for pulverized coal combustion in a turbulent mixing layer – Part I: A priori and budget analyses. <i>Combustion and Flame</i> , 2020, 216, 439-452.	2.8	16
60	High-fidelity numerical analysis of non-premixed hydrothermal flames: Flame structure and stabilization mechanism. <i>Fuel</i> , 2020, 259, 116162.	3.4	21
61	A finite difference discretization method for heat and mass transfer with Robin boundary conditions on irregular domains. <i>Journal of Computational Physics</i> , 2020, 400, 108890.	1.9	13
62	Biomechanical implications of the fenestration structure after thoracic endovascular aortic repair. <i>Journal of Biomechanics</i> , 2020, 99, 109478.	0.9	20
63	Hemodynamic consequences of TEVAR with in situ double fenestrations of left carotid artery and left subclavian artery. <i>Medical Engineering and Physics</i> , 2020, 76, 32-39.	0.8	11
64	An augmented coarse-grained CFD-DEM approach for simulation of fluidized beds. <i>Advanced Powder Technology</i> , 2020, 31, 4420-4427.	2.0	41
65	Modeling and analysis of flow regimes in hydraulic conveying of coarse particles. <i>Powder Technology</i> , 2020, 373, 543-554.	2.1	48
66	Hybrid Flamelet/Progress Variable Approach for NO Prediction in Pulverized Coal Flames. <i>Energy & Fuels</i> , 2020, 34, 10000-10009.	2.5	0
67	CFD-DEM coupled with thermochemical sub-models for biomass gasification: Validation and sensitivity analysis. <i>Chemical Engineering Science</i> , 2020, 217, 115550.	1.9	123
68	Direct numerical simulation of particle-laden turbulent boundary layers without and with combustion. <i>Physics of Fluids</i> , 2020, 32, 105108.	1.6	12
69	Eulerian-Lagrangian direct numerical simulation of preferential accumulation of inertial particles in a compressible turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2020, 903, .	1.4	18
70	Particle-Scale Simulation of Solid Mixing Characteristics of Binary Particles in a Bubbling Fluidized Bed. <i>Energies</i> , 2020, 13, 4442.	1.6	10
71	Numerical Investigation of a Syngas-Fueled Chemical Looping Combustion System. <i>Energy & Fuels</i> , 2020, 34, 12800-12809.	2.5	5
72	A lower-dimensional approximation model of turbulent flame stretch and its related quantities with machine learning approaches. <i>Physics of Fluids</i> , 2020, 32, .	1.6	13

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73	Nonlinear effect of compound extreme weather events on ozone formation over the United States. <i>Weather and Climate Extremes</i> , 2020, 30, 100285.	1.6	13
74	A multiscale numerical framework coupled with control strategies for simulating a wind farm in complex terrain. <i>Energy</i> , 2020, 203, 117913.	4.5	15
75	Large-eddy simulation of hydrothermal flames using extended flamelet/progress variable approach. <i>Journal of Supercritical Fluids</i> , 2020, 163, 104843.	1.6	3
76	Spatial&temporal variations and process analysis of O<sub>3</sub& pollution in Hangzhou during the G20 summit. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5963-5976.	1.9	15
77	Fully resolved simulation of a shockwave interacting with randomly clustered particles via a ghost-cell immersed boundary method. <i>Physics of Fluids</i> , 2020, 32, 066105.	1.6	9
78	Three-dimensional full-loop numerical simulation of co-combustion of coal and refuse derived fuel in a pilot-scale circulating fluidized bed boiler. <i>Chemical Engineering Science</i> , 2020, 220, 115612.	1.9	25
79	Influences of secondary gas injection pattern on fluidized bed combustion process: A CFD-DEM study. <i>Fuel</i> , 2020, 268, 117314.	3.4	21
80	Novel Sensitivity Study for Biomass Directional Devolatilization by Random Forest Models. <i>Energy & Fuels</i> , 2020, 34, 8414-8423.	2.5	8
81	Dual-Scale Flamelet/Progress Variable Approach for Prediction of Polycyclic Aromatic Hydrocarbons Formation under the Condition of Coal Combustion. <i>Energy & Fuels</i> , 2020, 34, 10010-10018.	2.5	2
82	Large eddy simulations and analysis of NO emission characteristics in a laboratory pulverized coal flame. <i>Fuel</i> , 2020, 279, 118316.	3.4	9
83	Numerical modeling on simultaneous removal of mercury and particulate matter within an electrostatic precipitator. <i>Advanced Powder Technology</i> , 2020, 31, 1759-1770.	2.0	14
84	Direct numerical simulation and artificial neural network modeling of heat transfer characteristics on natural convection with a sinusoidal cylinder in a long rectangular enclosure. <i>International Journal of Heat and Mass Transfer</i> , 2020, 152, 119564.	2.5	30
85	Comparative Study on Different Treatments of Coal Devolatilization for Pulverized Coal Combustion Simulation. <i>Energy & Fuels</i> , 2020, 34, 3816-3827.	2.5	12
86	Characteristics and sources of PM2.5 with focus on two severe pollution events in a coastal city of Qingdao, China. <i>Chemosphere</i> , 2020, 247, 125861.	4.2	23
87	A comprehensive study of flamelet tabulation methods for pulverized coal combustion in a turbulent mixing layer"Part II: Strong heat losses and multi-mode combustion. <i>Combustion and Flame</i> , 2020, 216, 453-467.	2.8	11
88	Analysis and accurate prediction of ambient PM2.5 in China using Multi-layer Perceptron. <i>Atmospheric Environment</i> , 2020, 232, 117534.	1.9	26
89	Drag force for a burning particle. <i>Combustion and Flame</i> , 2020, 217, 188-199.	2.8	22
90	Large eddy simulation of turbulent partially premixed flames with inhomogeneous inlets using the dynamic second-order moment closure model. <i>Combustion Theory and Modelling</i> , 2020, 24, 705-724.	1.0	3

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91	Recent advances in high-fidelity simulations of pulverized coal combustion. <i>Advanced Powder Technology</i> , 2020, 31, 3062-3079.	2.0	13
92	Three-dimensional simulation of biomass gasification in a full-loop pilot-scale dual fluidized bed with complex geometric structure. <i>Renewable Energy</i> , 2020, 157, 466-481.	4.3	27
93	Analysis of Gas-Assisted Pulverized Coal Combustion in Cambridge Coal Burner CCB1 Using FPV-LES. <i>Energy & Fuels</i> , 2020, 34, 7477-7489.	2.5	5
94	Similarity of dissipation and enstrophy in particle-induced small-scale turbulence. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	0
95	A three mixture fraction flamelet model for multi-stream laminar pulverized coal combustion. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 2901-2910.	2.4	35
96	Predicting kinetic parameters for coal devolatilization by means of Artificial Neural Networks. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 2943-2950.	2.4	40
97	Investigation on air pollution control strategy in Hangzhou for post-G20/pre-Asian-games period (2018â€“2020). <i>Atmospheric Pollution Research</i> , 2019, 10, 197-208.	1.8	20
98	Impact of substantial wind farms on the local and regional atmospheric boundary layer: Case study of Zhangbei wind power base in China. <i>Energy</i> , 2019, 183, 1136-1149.	4.5	22
99	Effect of Operating Parameters on Gasâ€“Solid Hydrodynamics and Heat Transfer in a Spouted Bed. <i>Chemical Engineering and Technology</i> , 2019, 42, 2310-2320.	0.9	7
100	Real-fluid effects on laminar diffusion and premixed hydrothermal flames. <i>Journal of Supercritical Fluids</i> , 2019, 153, 104566.	1.6	10
101	CFD-DEM modelling of hydraulic conveying of solid particles in a vertical pipe. <i>Powder Technology</i> , 2019, 354, 893-905.	2.1	97
102	Interface-resolved detailed numerical simulation of evaporating two-phase flows with robin boundary conditions on irregular domains. <i>International Journal of Heat and Mass Transfer</i> , 2019, 145, 118774.	2.5	8
103	Direct numerical simulation of a three-dimensional spatially evolving compressible mixing layer laden with particles. II. Turbulence anisotropy and growth rate. <i>Physics of Fluids</i> , 2019, 31, 083303.	1.6	17
104	Direct numerical simulation of a three-dimensional spatially evolving compressible mixing layer laden with particles. I. Turbulent structures and asymmetric properties. <i>Physics of Fluids</i> , 2019, 31, 083302.	1.6	7
105	A comprehensive study on estimating higher heating value of biomass from proximate and ultimate analysis with machine learning approaches. <i>Energy</i> , 2019, 188, 116077.	4.5	102
106	Estimating biomass major chemical constituents from ultimate analysis using a random forest model. <i>Bioresource Technology</i> , 2019, 288, 121541.	4.8	49
107	Drag enhancement and turbulence attenuation by small solid particles in an unstably stratified turbulent boundary layer. <i>Physics of Fluids</i> , 2019, 31, 063303.	1.6	16
108	A Primary Computational Fluid Dynamics Study of Pre- and Post-TEVAR With Intentional Left Subclavian Artery Coverage in a Type B Aortic Dissection. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	0.6	23

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109	Effects of solid particles and wall roughness on turbulent boundary layer in a two-phase horizontal channel flow. <i>Powder Technology</i> , 2019, 353, 48-56.	2.1	6
110	Ignition dynamics of DME/methane-air reactive mixing layer under reactivity controlled compression ignition conditions: Effects of cool flames. <i>Applied Energy</i> , 2019, 249, 343-354.	5.1	24
111	Investigation of supersonic turbulent flows over a sphere by fully resolved direct numerical simulation. <i>Physics of Fluids</i> , 2019, 31, .	1.6	12
112	The effects of collisional parameters on the hydrodynamics and heat transfer in spouted bed: A CFD-DEM study. <i>Powder Technology</i> , 2019, 353, 132-144.	2.1	30
113	Level set method for atomization and evaporation simulations. <i>Progress in Energy and Combustion Science</i> , 2019, 73, 65-94.	15.8	53
114	A priori study of an extended flamelet/progress variable model for NO prediction in pulverized coal flames. <i>Energy</i> , 2019, 175, 768-780.	4.5	15
115	Numerical simulation of two-phase non-Newtonian blood flow with fluid-structure interaction in aortic dissection. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 620-630.	0.9	55
116	Numerical investigation of the back-mixing and non-uniform characteristics in the three-dimensional full-loop circulating fluidized bed combustor with six parallel cyclones. <i>Applied Thermal Engineering</i> , 2019, 153, 524-535.	3.0	15
117	Effects of in situ fenestration stent-graft of left subclavian artery on the hemodynamics after thoracic endovascular aortic repair. <i>Vascular</i> , 2019, 27, 369-377.	0.4	10
118	Impacts of climate change and emissions on atmospheric oxidized nitrogen deposition over East Asia. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 887-900.	1.9	14
119	Insights into the role of ionic wind in honeycomb electrostatic precipitators. <i>Journal of Aerosol Science</i> , 2019, 133, 83-95.	1.8	44
120	Influence of particle shape on liner wear in tumbling mills: A DEM study. <i>Powder Technology</i> , 2019, 350, 26-35.	2.1	28
121	Exploring the stratospheric source of ozone pollution over China during the 2016 Group of Twenty summit. <i>Atmospheric Pollution Research</i> , 2019, 10, 1267-1275.	1.8	14
122	Numerical Investigation of Nickel-Copper Oxygen Carriers in Chemical-Looping Combustion Process with Zero Emission of CO and H ₂ . <i>Energy & Fuels</i> , 2019, 33, 12096-12105.	2.5	16
123	Evaluation of real-fluid flamelet/progress variable model for laminar hydrothermal flames. <i>Journal of Supercritical Fluids</i> , 2019, 143, 232-241.	1.6	7
124	Direct numerical simulation on auto-ignition characteristics of turbulent supercritical hydrothermal flames. <i>Combustion and Flame</i> , 2019, 200, 354-364.	2.8	24
125	Ethylene, xylene, toluene and hexane are major contributors of atmospheric ozone in Hangzhou, China, prior to the 2022 Asian Games. <i>Environmental Chemistry Letters</i> , 2019, 17, 1151-1160.	8.3	28
126	Predictive single-step kinetic model of biomass devolatilization for CFD applications: A comparison study of empirical correlations (EC), artificial neural networks (ANN) and random forest (RF). <i>Renewable Energy</i> , 2019, 136, 104-114.	4.3	72

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127	Computational Fluid Dynamics/Discrete Element Method Investigation on the Biomass Fast Pyrolysis: The Influences of Shrinkage Patterns and Operating Parameters. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 1404-1416.	1.8	29
128	CFD-DEM simulation of heat transfer in fluidized beds: Model verification, validation, and application. <i>Chemical Engineering Science</i> , 2019, 197, 280-295.	1.9	116
129	Wake and performance interference between adjacent wind farms: Case study of Xinjiang in China by means of mesoscale simulations. <i>Energy</i> , 2019, 166, 1168-1180.	4.5	43
130	CFD-DEM study of the effect of ring baffles on system performance of a full-loop circulating fluidized bed. <i>Chemical Engineering Science</i> , 2019, 196, 130-144.	1.9	36
131	Analysis and flamelet modelling for laminar pulverised coal combustion considering the wall effect. <i>Combustion Theory and Modelling</i> , 2019, 23, 353-375.	1.0	3
132	Influences of operating parameters on the fluidized bed coal gasification process: A coarse-grained CFD-DEM study. <i>Chemical Engineering Science</i> , 2019, 195, 693-706.	1.9	76
133	Effects of wall roughness on particle dynamics in a spatially developing turbulent boundary layer. <i>International Journal of Multiphase Flow</i> , 2019, 111, 140-157.	1.6	16
134	Dynamics of triple-flames in ignition of turbulent dual fuel mixture: A direct numerical simulation study. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 4625-4633.	2.4	18
135	An improved direct-forcing immersed boundary method with inward retraction of Lagrangian points for simulation of particle-laden flows. <i>Journal of Computational Physics</i> , 2019, 376, 210-227.	1.9	25
136	Numerical investigation of the cluster property and flux distribution in three-dimensional full-loop circulating fluidized bed with multiple parallel cyclones. <i>Powder Technology</i> , 2019, 342, 253-266.	2.1	12
137	An <i>a priori</i> study of different tabulation methods for turbulent pulverised coal combustion. <i>Combustion Theory and Modelling</i> , 2018, 22, 505-530.	1.0	8
138	DEM investigation of the axial dispersion behavior of a binary mixture in the rotating drum. <i>Powder Technology</i> , 2018, 330, 93-104.	2.1	27
139	Fully resolved simulations of single char particle combustion using a ghost-cell immersed boundary method. <i>AICHE Journal</i> , 2018, 64, 2851-2863.	1.8	19
140	Assessment of winter air pollution episodes using long-range transport modeling in Hangzhou, China, during World Internet Conference, 2015. <i>Environmental Pollution</i> , 2018, 236, 550-561.	3.7	38
141	Multiscale investigation of tube erosion in fluidized bed based on CFD-DEM simulation. <i>Chemical Engineering Science</i> , 2018, 183, 60-74.	1.9	29
142	Impact of operating parameters on biomass gasification in a fluidized bed reactor: An Eulerian-Lagrangian approach. <i>Powder Technology</i> , 2018, 333, 304-316.	2.1	112
143	Effect of superficial gas velocity on solid behaviors in a full-loop CFB. <i>Powder Technology</i> , 2018, 333, 91-105.	2.1	39
144	Sheet, ligament and droplet formation in swirling primary atomization. <i>AIP Advances</i> , 2018, 8, .	0.6	21

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145	Translational and rotational motions of small solid particles in a spatially developing turbulent boundary layer with heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2018, 124, 715-725.	2.5	3
146	Numerical prediction of wear in SAG mills based on DEM simulations. <i>Powder Technology</i> , 2018, 329, 353-363.	2.1	45
147	Analysis of pulverized coal flame stabilized in a 3D laminar counterflow. <i>Combustion and Flame</i> , 2018, 189, 106-125.	2.8	42
148	Prediction of product distributions in coal devolatilization by an artificial neural network model. <i>Combustion and Flame</i> , 2018, 193, 283-294.	2.8	22
149	Direct numerical simulation of turbulent flow and heat transfer in a spatially developing turbulent boundary layer laden with particles. <i>Journal of Fluid Mechanics</i> , 2018, 845, 417-461.	1.4	15
150	Particle-Scale Investigation of Heat Transfer and Erosion Characteristics in a Three-Dimensional Circulating Fluidized Bed. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 6774-6789.	1.8	26
151	Production of synthetic natural gas by CO methanation over Ni/Al ₂ O ₃ catalyst in fluidized bed reactor. <i>Catalysis Communications</i> , 2018, 105, 37-42.	1.6	16
152	Direct numerical simulation of particle dispersion in a three-dimensional spatially developing compressible mixing layer. <i>Physics of Fluids</i> , 2018, 30, .	1.6	22
153	Investigations of data-driven closure for subgrid-scale stress in large-eddy simulation. <i>Physics of Fluids</i> , 2018, 30, 125101.	1.6	122
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