

Kun Luo

List of Publications by Year in descending order

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305
papers

7,168
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71097

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62
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docs citations

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times ranked

3890
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. | 8.8 | 9 |
| 2 | Particle behaviours of biomass gasification in a bubbling fluidized bed. <i>Chemical Engineering Journal</i> , 2022, 428, 131847. | 12.7 | 46 |
| 3 | Immersed boundary method for multiphase transport phenomena. <i>Reviews in Chemical Engineering</i> , 2022, 38, 363-405. | 4.4 | 14 |
| 4 | A refined wind farm parameterization for the weather research and forecasting model. <i>Applied Energy</i> , 2022, 306, 118082. | 10.1 | 12 |
| 5 | Predicting co-pyrolysis of coal and biomass using machine learning approaches. <i>Fuel</i> , 2022, 310, 122248. | 6.4 | 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. | 2.8 | 8 |
| 7 | Full-loop simulation of a 1 MWth pilot-scale chemical looping combustion system. <i>Chemical Engineering Science</i> , 2022, 249, 117301. | 3.8 | 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. | 2.8 | 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. | 8.8 | 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, . | 2.3 | 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. | 8.8 | 7 |
| 12 | Numerical Simulation of a 10 kW Gas-Fueled Chemical Looping Combustion Unit. <i>Energies</i> , 2022, 15, 1973. | 3.1 | 2 |
| 13 | The enhanced role of atmospheric reduced nitrogen deposition in future over East Asia—Northwest Pacific. <i>Science of the Total Environment</i> , 2022, 833, 155146. | 8.0 | 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. | 8.8 | 11 |
| 15 | Particle-scale study of coal-direct chemical looping combustion (CLC). <i>Energy</i> , 2022, 250, 123859. | 8.8 | 8 |
| 16 | Experimental and Kinetic Studies on Tobacco Pyrolysis under a Wide Range of Heating Rates. <i>ACS Omega</i> , 2022, 7, 1420-1427. | 3.5 | 8 |
| 17 | Computational Prediction of Thrombosis in Food and Drug Administration's Benchmark Nozzle. <i>Frontiers in Physiology</i> , 2022, 13, 867613. | 2.8 | 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. | 4.7 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Studies on a swirling heptane spray flame by large-eddy simulation. Aerospace Science and Technology, 2022, , 107632. | 4.8 | 2 |
| 20 | An improved direct-forcing immersed boundary method for simulations of flow and heat transfer in particle-laden flows. International Journal of Multiphase Flow, 2022, 153, 104139. | 3.4 | 3 |
| 21 | Recent advances in hybrid Eulerian-Lagrangian description of atomization. Canadian Journal of Chemical Engineering, 2022, 100, 2071-2092. | 1.7 | 0 |
| 22 | Evaluation of the spatiotemporal unsteady characteristics of the tip leakage vortex based on a direct numerical simulation database. Physics of Fluids, 2022, 34, . | 4.0 | 8 |
| 23 | Diurnal impact of atmospheric stability on inter-farm wake and power generation efficiency at neighboring onshore wind farms in complex terrain. Energy Conversion and Management, 2022, 267, 115897. | 9.2 | 23 |
| 24 | The interaction between droplet evaporation and turbulence with interface-resolved direct numerical simulation. Physics of Fluids, 2022, 34, . | 4.0 | 7 |
| 25 | Bubble Dynamics and Particle Orientation in a Binary Fluidized Bed Containing Spherocylinders and Spheres. Industrial & Engineering Chemistry Research, 2022, 61, 11209-11225. | 3.7 | 2 |
| 26 | The impact of the atmospheric turbulence-development tendency on new particle formation: a common finding on three continents. National Science Review, 2021, 8, nwaa157. | 9.5 | 16 |
| 27 | Analysis and development of novel data-driven drag models based on direct numerical simulations of fluidized beds. Chemical Engineering Science, 2021, 231, 116245. | 3.8 | 27 |
| 28 | Imposing mixed Dirichlet-Neumann-Robin boundary conditions on irregular domains in a level set/ghost fluid based finite difference framework. Computers and Fluids, 2021, 214, 104772. | 2.5 | 4 |
| 29 | Turbulence/flame/wall interactions in non-premixed inclined slot-jet flames impinging at a wall using direct numerical simulation. Proceedings of the Combustion Institute, 2021, 38, 2711-2720. | 3.9 | 8 |
| 30 | Turbulence, evaporation and combustion interactions in heptane droplets under high pressure conditions using DNS. Combustion and Flame, 2021, 225, 417-427. | 5.2 | 16 |
| 31 | Large eddy simulation of Cambridge bluff-body coal (CCB2) flames with a flamelet progress variable model. Proceedings of the Combustion Institute, 2021, 38, 5347-5354. | 3.9 | 2 |
| 32 | A DNS study on temporally evolving jet flames of pulverized coal/biomass co-firing with different blending ratios. Proceedings of the Combustion Institute, 2021, 38, 4005-4012. | 3.9 | 10 |
| 33 | A-priori and a-posteriori studies of a direct moment closure approach for turbulent combustion using DNS data of a premixed flame. Proceedings of the Combustion Institute, 2021, 38, 3003-3011. | 3.9 | 4 |
| 34 | Direct numerical simulation of turbulence modulation by premixed flames in a model annular swirling combustor. Proceedings of the Combustion Institute, 2021, 38, 3013-3020. | 3.9 | 7 |
| 35 | Direct numerical simulations of turbulent non-premixed flames: Assessment of turbulence within swirling flows. Physics of Fluids, 2021, 33, 015112. | 4.0 | 8 |
| 36 | 2-D and 3-D measurements of flame stretch and turbulence-flame interactions in turbulent premixed flames using DNS. Journal of Fluid Mechanics, 2021, 913, . | 3.4 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 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. | 1.9 | 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. | 1.4 | 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, . | 4.0 | 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, . | 4.0 | 16 |
| 41 | Effect of flame holder temperature on the instability modes of laminar premixed flames. <i>Fuel</i> , 2021, 293, 119628. | 6.4 | 4 |
| 42 | Direct numerical simulation of turbulent boundary layer premixed combustion under auto-ignitive conditions. <i>Combustion and Flame</i> , 2021, 228, 292-301. | 5.2 | 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, . | 3.4 | 6 |
| 44 | Direct numerical simulation of a supercritical hydrothermal flame in a turbulent jet. <i>Journal of Fluid Mechanics</i> , 2021, 922, . | 3.4 | 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, . | 4.0 | 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. | 3.4 | 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. | 5.1 | 4 |
| 48 | Fluctuations of thermodynamic variables in compressible isotropic turbulence laden with inertial particles. <i>Physics of Fluids</i> , 2021, 33, . | 4.0 | 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. | 7.0 | 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. | 6.4 | 4 |
| 51 | Fluidâ€structure interaction: Insights into biomechanical implications of endograft after thoracic endovascular aortic repair. <i>Computers in Biology and Medicine</i> , 2021, 138, 104882. | 7.0 | 18 |
| 52 | CFD-DEM analysis of hydraulic conveying bends: Interaction between pipe orientation and flow regime. <i>Powder Technology</i> , 2021, 392, 619-631. | 4.2 | 35 |
| 53 | Eulerian-Lagrangian simulation of chemical looping combustion with wide particle size distributions. <i>Chemical Engineering Science</i> , 2021, 245, 116849. | 3.8 | 25 |
| 54 | 3D Unsteady Simulation of a Scale-Up Methanation Reactor with Interconnected Cooling Unit. <i>Energies</i> , 2021, 14, 7095. | 3.1 | 1 |

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|----|---|-----|-----------|
| 55 | Three-Dimensional Simulation of the Methanation Process in a Circulating Fluidized-Bed Reactor. Industrial & Engineering Chemistry Research, 2021, 60, 16417-16429. | 3.7 | 2 |
| 56 | Direct numerical simulation of the flow around a sphere immersed in a flat-plate turbulent boundary layer. Physics of Fluids, 2021, 33, . | 4.0 | 1 |
| 57 | Decoding Tropospheric Ozone in Hangzhou, China: from Precursors to Sources. Asia-Pacific Journal of Atmospheric Sciences, 2020, 56, 321-331. | 2.3 | 7 |
| 58 | Treatment of solid objects in the Pencil Code using an immersed boundary method and overset grids. Geophysical and Astrophysical Fluid Dynamics, 2020, 114, 35-57. | 1.2 | 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. Combustion and Flame, 2020, 216, 439-452. | 5.2 | 16 |
| 60 | High-fidelity numerical analysis of non-premixed hydrothermal flames: Flame structure and stabilization mechanism. Fuel, 2020, 259, 116162. | 6.4 | 21 |
| 61 | A finite difference discretization method for heat and mass transfer with Robin boundary conditions on irregular domains. Journal of Computational Physics, 2020, 400, 108890. | 3.8 | 13 |
| 62 | Biomechanical implications of the fenestration structure after thoracic endovascular aortic repair. Journal of Biomechanics, 2020, 99, 109478. | 2.1 | 20 |
| 63 | Hemodynamic consequences of TEVAR with in situ double fenestrations of left carotid artery and left subclavian artery. Medical Engineering and Physics, 2020, 76, 32-39. | 1.7 | 11 |
| 64 | An augmented coarse-grained CFD-DEM approach for simulation of fluidized beds. Advanced Powder Technology, 2020, 31, 4420-4427. | 4.1 | 41 |
| 65 | Modeling and analysis of flow regimes in hydraulic conveying of coarse particles. Powder Technology, 2020, 373, 543-554. | 4.2 | 48 |
| 66 | Hybrid Flamelet/Progress Variable Approach for NO Prediction in Pulverized Coal Flames. Energy & Fuels, 2020, 34, 10000-10009. | 5.1 | 0 |
| 67 | CFD-DEM coupled with thermochemical sub-models for biomass gasification: Validation and sensitivity analysis. Chemical Engineering Science, 2020, 217, 115550. | 3.8 | 123 |
| 68 | Direct numerical simulation of particle-laden turbulent boundary layers without and with combustion. Physics of Fluids, 2020, 32, 105108. | 4.0 | 12 |
| 69 | Eulerian-Lagrangian direct numerical simulation of preferential accumulation of inertial particles in a compressible turbulent boundary layer. Journal of Fluid Mechanics, 2020, 903, . | 3.4 | 18 |
| 70 | Particle-Scale Simulation of Solid Mixing Characteristics of Binary Particles in a Bubbling Fluidized Bed. Energies, 2020, 13, 4442. | 3.1 | 10 |
| 71 | Numerical Investigation of a Syngas-Fueled Chemical Looping Combustion System. Energy & Fuels, 2020, 34, 12800-12809. | 5.1 | 5 |
| 72 | A lower-dimensional approximation model of turbulent flame stretch and its related quantities with machine learning approaches. Physics of Fluids, 2020, 32, . | 4.0 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Nonlinear effect of compound extreme weather events on ozone formation over the United States. <i>Weather and Climate Extremes</i> , 2020, 30, 100285. | 4.1 | 13 |
| 74 | A multiscale numerical framework coupled with control strategies for simulating a wind farm in complex terrain. <i>Energy</i> , 2020, 203, 117913. | 8.8 | 15 |
| 75 | Large-eddy simulation of hydrothermal flames using extended flamelet/progress variable approach. <i>Journal of Supercritical Fluids</i> , 2020, 163, 104843. | 3.2 | 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. | 4.9 | 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. | 4.0 | 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. | 3.8 | 25 |
| 79 | Influences of secondary gas injection pattern on fluidized bed combustion process: A CFD-DEM study. <i>Fuel</i> , 2020, 268, 117314. | 6.4 | 21 |
| 80 | Novel Sensitivity Study for Biomass Directional Devolatilization by Random Forest Models. <i>Energy & Fuels</i> , 2020, 34, 8414-8423. | 5.1 | 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. | 5.1 | 2 |
| 82 | Large eddy simulations and analysis of NO emission characteristics in a laboratory pulverized coal flame. <i>Fuel</i> , 2020, 279, 118316. | 6.4 | 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. | 4.1 | 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. | 4.8 | 30 |
| 85 | Comparative Study on Different Treatments of Coal Devolatilization for Pulverized Coal Combustion Simulation. <i>Energy & Fuels</i> , 2020, 34, 3816-3827. | 5.1 | 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. | 8.2 | 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. | 5.2 | 11 |
| 88 | Analysis and accurate prediction of ambient PM2.5 in China using Multi-layer Perceptron. <i>Atmospheric Environment</i> , 2020, 232, 117534. | 4.1 | 26 |
| 89 | Drag force for a burning particle. <i>Combustion and Flame</i> , 2020, 217, 188-199. | 5.2 | 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. | 1.9 | 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. | 4.1 | 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. | 8.9 | 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. | 5.1 | 5 |
| 94 | Similarity of dissipation and enstrophy in particle-induced small-scale turbulence. <i>Physical Review Fluids</i> , 2020, 5, . | 2.5 | 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. | 3.9 | 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. | 3.9 | 40 |
| 97 | Investigation on air pollution control strategy in Hangzhou for post-G20/pre-Asian-games period (2018-2020). <i>Atmospheric Pollution Research</i> , 2019, 10, 197-208. | 3.8 | 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. | 8.8 | 22 |
| 99 | Effect of Operating Parameters on Gas-Solid Hydrodynamics and Heat Transfer in a Spouted Bed. <i>Chemical Engineering and Technology</i> , 2019, 42, 2310-2320. | 1.5 | 7 |
| 100 | Real-fluid effects on laminar diffusion and premixed hydrothermal flames. <i>Journal of Supercritical Fluids</i> , 2019, 153, 104566. | 3.2 | 10 |
| 101 | CFD-DEM modelling of hydraulic conveying of solid particles in a vertical pipe. <i>Powder Technology</i> , 2019, 354, 893-905. | 4.2 | 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. | 4.8 | 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. | 4.0 | 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. | 4.0 | 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. | 8.8 | 102 |
| 106 | Estimating biomass major chemical constituents from ultimate analysis using a random forest model. <i>Bioresource Technology</i> , 2019, 288, 121541. | 9.6 | 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. | 4.0 | 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, . | 1.3 | 23 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 109 | Effects of solid particles and wall roughness on turbulent boundary layer in a two-phase horizontal channel flow. Powder Technology, 2019, 353, 48-56. | 4.2 | 6 |
| 110 | Ignition dynamics of DME/methane-air reactive mixing layer under reactivity controlled compression ignition conditions: Effects of cool flames. Applied Energy, 2019, 249, 343-354. | 10.1 | 24 |
| 111 | Investigation of supersonic turbulent flows over a sphere by fully resolved direct numerical simulation. Physics of Fluids, 2019, 31, . | 4.0 | 12 |
| 112 | The effects of collisional parameters on the hydrodynamics and heat transfer in spouted bed: A CFD-DEM study. Powder Technology, 2019, 353, 132-144. | 4.2 | 30 |
| 113 | Level set method for atomization and evaporation simulations. Progress in Energy and Combustion Science, 2019, 73, 65-94. | 31.2 | 53 |
| 114 | A priori study of an extended flamelet/progress variable model for NO prediction in pulverized coal flames. Energy, 2019, 175, 768-780. | 8.8 | 15 |
| 115 | Numerical simulation of two-phase non-Newtonian blood flow with fluid-structure interaction in aortic dissection. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 620-630. | 1.6 | 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. Applied Thermal Engineering, 2019, 153, 524-535. | 6.0 | 15 |
| 117 | Effects of in situ fenestration stent-graft of left subclavian artery on the hemodynamics after thoracic endovascular aortic repair. Vascular, 2019, 27, 369-377. | 0.9 | 10 |
| 118 | Impacts of climate change and emissions on atmospheric oxidized nitrogen deposition over East Asia. Atmospheric Chemistry and Physics, 2019, 19, 887-900. | 4.9 | 14 |
| 119 | Insights into the role of ionic wind in honeycomb electrostatic precipitators. Journal of Aerosol Science, 2019, 133, 83-95. | 3.8 | 44 |
| 120 | Influence of particle shape on liner wear in tumbling mills: A DEM study. Powder Technology, 2019, 350, 26-35. | 4.2 | 28 |
| 121 | Exploring the stratospheric source of ozone pollution over China during the 2016 Group of Twenty summit. Atmospheric Pollution Research, 2019, 10, 1267-1275. | 3.8 | 14 |
| 122 | Numerical Investigation of Nickel–Copper Oxygen Carriers in Chemical-Looping Combustion Process with Zero Emission of CO and H ₂ . Energy & Fuels, 2019, 33, 12096-12105. | 5.1 | 16 |
| 123 | Evaluation of real-fluid flamelet/progress variable model for laminar hydrothermal flames. Journal of Supercritical Fluids, 2019, 143, 232-241. | 3.2 | 7 |
| 124 | Direct numerical simulation on auto-ignition characteristics of turbulent supercritical hydrothermal flames. Combustion and Flame, 2019, 200, 354-364. | 5.2 | 24 |
| 125 | Ethylene, xylene, toluene and hexane are major contributors of atmospheric ozone in Hangzhou, China, prior to the 2022 Asian Games. Environmental Chemistry Letters, 2019, 17, 1151-1160. | 16.2 | 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). Renewable Energy, 2019, 136, 104-114. | 8.9 | 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. Industrial & Engineering Chemistry Research, 2019, 58, 1404-1416. | 3.7 | 29 |
| 128 | CFD-DEM simulation of heat transfer in fluidized beds: Model verification, validation, and application. Chemical Engineering Science, 2019, 197, 280-295. | 3.8 | 116 |
| 129 | Wake and performance interference between adjacent wind farms: Case study of Xinjiang in China by means of mesoscale simulations. Energy, 2019, 166, 1168-1180. | 8.8 | 43 |
| 130 | CFD-DEM study of the effect of ring baffles on system performance of a full-loop circulating fluidized bed. Chemical Engineering Science, 2019, 196, 130-144. | 3.8 | 36 |
| 131 | Analysis and flamelet modelling for laminar pulverised coal combustion considering the wall effect. Combustion Theory and Modelling, 2019, 23, 353-375. | 1.9 | 3 |
| 132 | Influences of operating parameters on the fluidized bed coal gasification process: A coarse-grained CFD-DEM study. Chemical Engineering Science, 2019, 195, 693-706. | 3.8 | 76 |
| 133 | Effects of wall roughness on particle dynamics in a spatially developing turbulent boundary layer. International Journal of Multiphase Flow, 2019, 111, 140-157. | 3.4 | 16 |
| 134 | Dynamics of triple-flames in ignition of turbulent dual fuel mixture: A direct numerical simulation study. Proceedings of the Combustion Institute, 2019, 37, 4625-4633. | 3.9 | 18 |
| 135 | An improved direct-forcing immersed boundary method with inward retraction of Lagrangian points for simulation of particle-laden flows. Journal of Computational Physics, 2019, 376, 210-227. | 3.8 | 25 |
| 136 | Numerical investigation of the cluster property and flux distribution in three-dimensional full-loop circulating fluidized bed with multiple parallel cyclones. Powder Technology, 2019, 342, 253-266. | 4.2 | 12 |
| 137 | An <i>a priori</i> study of different tabulation methods for turbulent pulverised coal combustion. Combustion Theory and Modelling, 2018, 22, 505-530. | 1.9 | 8 |
| 138 | DEM investigation of the axial dispersion behavior of a binary mixture in the rotating drum. Powder Technology, 2018, 330, 93-104. | 4.2 | 27 |
| 139 | Fully resolved simulations of single char particle combustion using a ghost-cell immersed boundary method. AIChE Journal, 2018, 64, 2851-2863. | 3.6 | 19 |
| 140 | Assessment of winter air pollution episodes using long-range transport modeling in Hangzhou, China, during World Internet Conference, 2015. Environmental Pollution, 2018, 236, 550-561. | 7.5 | 38 |
| 141 | Multiscale investigation of tube erosion in fluidized bed based on CFD-DEM simulation. Chemical Engineering Science, 2018, 183, 60-74. | 3.8 | 29 |
| 142 | Impact of operating parameters on biomass gasification in a fluidized bed reactor: An Eulerian-Lagrangian approach. Powder Technology, 2018, 333, 304-316. | 4.2 | 112 |
| 143 | Effect of superficial gas velocity on solid behaviors in a full-loop CFB. Powder Technology, 2018, 333, 91-105. | 4.2 | 39 |
| 144 | Sheet, ligament and droplet formation in swirling primary atomization. AIP Advances, 2018, 8, . | 1.3 | 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. | 4.8 | 3 |
| 146 | Numerical prediction of wear in SAG mills based on DEM simulations. <i>Powder Technology</i> , 2018, 329, 353-363. | 4.2 | 45 |
| 147 | Analysis of pulverized coal flame stabilized in a 3D laminar counterflow. <i>Combustion and Flame</i> , 2018, 189, 106-125. | 5.2 | 42 |
| 148 | Prediction of product distributions in coal devolatilization by an artificial neural network model. <i>Combustion and Flame</i> , 2018, 193, 283-294. | 5.2 | 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. | 3.4 | 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. | 3.7 | 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. | 3.3 | 16 |
| 152 | Direct numerical simulation of particle dispersion in a three-dimensional spatially developing compressible mixing layer. <i>Physics of Fluids</i> , 2018, 30, . | 4.0 | 22 |
| 153 | Investigations of data-driven closure for subgrid-scale stress in large-eddy simulation. <i>Physics of Fluids</i> , 2018, 30, 125101. | 4.0 | 122 |
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