

# Ya-Ling He

## List of Publications by Year in descending order

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65  
papers

2,400  
citations

236925

25  
h-index

206112

48  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1982  
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review of the pseudopotential multiphase lattice Boltzmann model: Methods and applications. <i>International Journal of Heat and Mass Transfer</i> , 2014, 76, 210-236.	4.8	574
2	A parameter study of tube bundle heat exchangers for fouling rate reduction. <i>International Journal of Heat and Mass Transfer</i> , 2014, 72, 210-221.	4.8	112
3	Optimization of CO <sub>2</sub> Conversion in a Cylindrical Dielectric Barrier Discharge Reactor Using Design of Experiments. <i>Plasma Processes and Polymers</i> , 2016, 13, 544-556.	3.0	104
4	Achieving gradient-pore-oriented graphite felt for vanadium redox flow batteries: meeting improved electrochemical activity and enhanced mass transport from nano- to micro-scale. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10962-10970.	10.3	102
5	Plasma-catalytic reforming of biogas over supported Ni catalysts in a dielectric barrier discharge reactor: Effect of catalyst supports. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600076.	3.0	80
6	Coupled numerical approach combining finite volume and lattice Boltzmann methods for multi-scale multi-physicochemical processes. <i>Journal of Computational Physics</i> , 2013, 255, 83-105.	3.8	64
7	Investigation of the effect of metal foam characteristics on the PCM melting performance in a latent heat thermal energy storage unit by pore-scale lattice Boltzmann modeling. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 72, 745-764.	2.1	64
8	Coupling between finite volume method and lattice Boltzmann method and its application to fluid flow and mass transport in proton exchange membrane fuel cell. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 3834-3848.	4.8	63
9	Parameter study on the fouling characteristics of the H-type finned tube heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2017, 112, 367-378.	4.8	62
10	Nucleate boiling performance evaluation of cavities at mesoscale level. <i>International Journal of Heat and Mass Transfer</i> , 2017, 106, 708-719.	4.8	62
11	Multiscale Simulations of Heat Transfer and Fluid Flow Problems. <i>Journal of Heat Transfer</i> , 2012, 134, .	2.1	61
12	Simulation of real time particle deposition and removal processes on tubes by coupled numerical method. <i>Applied Energy</i> , 2017, 185, 2181-2193.	10.1	57
13	Parametric study on fouling mechanism and heat transfer characteristics of tube bundle heat exchangers for reducing fouling considering the deposition and removal mechanisms. <i>Fuel</i> , 2018, 211, 301-311.	6.4	55
14	Scale effect on flow and thermal boundaries in micro-/nano-channel flow using molecular dynamics-continuum hybrid simulation method. <i>International Journal for Numerical Methods in Engineering</i> , 2010, 81, 207-228.	2.8	49
15	Three-dimensional lattice Boltzmann models for solid-liquid phase change. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 1334-1347.	4.8	45
16	Fouling potential prediction and multi-objective optimization of a flue gas heat exchanger using neural networks and genetic algorithms. <i>International Journal of Heat and Mass Transfer</i> , 2020, 152, 119488.	4.8	43
17	The Temperature Effect on the Diffusion Processes of Water and Proton in the Proton Exchange Membrane Using Molecular Dynamics Simulation. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 65, 216-228.	2.1	41
18	Numerical investigation of liquid water transport and distribution in porous gas diffusion layer of a proton exchange membrane fuel cell using lattice Boltzmann method. <i>Russian Journal of Electrochemistry</i> , 2012, 48, 712-726.	0.9	40

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19	A review of current progress in multiscale simulations for fluid flow and heat transfer problems: The frameworks, coupling techniques and future perspectives. <i>International Journal of Heat and Mass Transfer</i> , 2019, 137, 1263-1289.	4.8	39
20	Parametric optimization of H-type finned tube with longitudinal vortex generators by response surface model and genetic algorithm. <i>Applied Energy</i> , 2019, 239, 908-918.	10.1	38
21	Experimental and Numerical Study of Turbulent Heat Transfer in Twisted Square Ducts. <i>Journal of Heat Transfer</i> , 2001, 123, 868-877.	2.1	35
22	A unified coupling scheme between lattice Boltzmann method and finite volume method for unsteady fluid flow and heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2015, 80, 812-824.	4.8	31
23	Effects of Roughness of Gas Diffusion Layer Surface on Liquid Water Transport in Micro Gas Channels of a Proton Exchange Membrane Fuel Cell. <i>Numerical Heat Transfer; Part A: Applications</i> , 2012, 62, 295-318.	2.1	30
24	Molecular dynamics–continuum hybrid simulation for condensation of gas flow in a microchannel. <i>Microfluidics and Nanofluidics</i> , 2009, 7, 407-422.	2.2	28
25	Numerical Simulation of Finned Tube Bank Across a Staggered Circular-Pin-Finned Tube Bundle. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 68, 737-760.	2.1	27
26	Real-time particle filtration of granular filters for hot gas clean-up. <i>Fuel</i> , 2019, 237, 308-319.	6.4	26
27	Filtration performance of the granular bed filter used for industrial flue gas purification: A review of simulation and experiment. <i>Separation and Purification Technology</i> , 2020, 251, 117318.	7.9	26
28	CO <sub>2</sub> Absorption over Ion Exchange Resins: The Effect of Amine Functional Groups and Microporous Structures. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 16507-16515.	3.7	25
29	Sandwich-like multi-scale hierarchical porous carbon with a highly hydroxylated surface for flow batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2345-2356.	10.3	25
30	Enthalpy-based multiple-relaxation-time lattice Boltzmann method for solid-liquid phase-change heat transfer in metal foams. <i>Physical Review E</i> , 2017, 96, 023303.	2.1	24
31	Three-dimensional finite-difference lattice Boltzmann model and its application to inviscid compressible flows with shock waves. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 4884-4896.	2.6	23
32	Pore-scale modelling of dynamic interaction between SVOCs and airborne particles with lattice Boltzmann method. <i>Building and Environment</i> , 2016, 104, 152-161.	6.9	22
33	A review of mass-transfer models and mechanistic studies of semi-volatile organic compounds in indoor environments. <i>Indoor and Built Environment</i> , 2018, 27, 1307-1321.	2.8	22
34	A Design and Rating Method for Shell-and-Tube Heat Exchangers With Helical Baffles. <i>Journal of Heat Transfer</i> , 2010, 132, .	2.1	21
35	Characteristics of the transient thermal load and deformation of the evacuated receiver in solar parabolic trough collector. <i>Science China Technological Sciences</i> , 2020, 63, 1188-1201.	4.0	21
36	Coupling finite volume and lattice Boltzmann methods for pore scale investigation on volatile organic compounds emission process. <i>Building and Environment</i> , 2015, 92, 236-245.	6.9	20

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37	Performance analysis of IDEAL algorithm for three-dimensional incompressible fluid flow and heat transfer problems. International Journal for Numerical Methods in Fluids, 2009, 61, 1132-1160.	1.6	18
38	Coupled solid (FVM)–fluid (DSMC) simulation of micro-nozzle with unstructured-grid. Microfluidics and Nanofluidics, 2009, 7, 621-631.	2.2	18
39	Modeling of the Dish Receiver With the Effect of Inhomogeneous Radiation Flux Distribution. Heat Transfer Engineering, 2014, 35, 780-790.	1.9	16
40	Parametric study and multiple correlations of an H-type finned tube bank in a fully developed region. Numerical Heat Transfer; Part A: Applications, 2016, 70, 64-78.	2.1	16
41	Application of Combined Enhanced Techniques for Design of Highly Efficient Air Heat Transfer Surface. Heat Transfer Engineering, 2012, 33, 52-62.	1.9	14
42	CFD analysis of SVOC mass transfer in different chambers. International Journal of Heat and Mass Transfer, 2016, 99, 613-621.	4.8	14
43	Numerical Solutions of Nano/Microphenomena Coupled With Macroscopic Process of Heat Transfer and Fluid Flow: A Brief Review. Journal of Heat Transfer, 2015, 137, .	2.1	13
44	A New Hybrid Algorithm for Numerical Simulation of VOC Emissions Using Single-Layer and Multilayer Approaches. Numerical Heat Transfer, Part B: Fundamentals, 2015, 67, 211-230.	0.9	11
45	Theoretical study of air-side volatility effects on the performance of H-type finned heat exchangers in waste heat utilization. Numerical Heat Transfer; Part A: Applications, 2016, 70, 613-638.	2.1	11
46	Lattice Boltzmann study on thermoacoustic onset in a Rijke tube. European Physical Journal Plus, 2015, 130, 1.	2.6	10
47	Discussion on Numerical Treatment of Periodic Boundary Condition for Temperature. Numerical Heat Transfer, Part B: Fundamentals, 2007, 52, 429-448.	0.9	9
48	Numerical Study on Some Improvements in the Passive Cooling System of a Radio Base Station Base on Multiscale Thermal Modeling Methodology–Part I: Confirmation of Simplified Models. Numerical Heat Transfer; Part A: Applications, 2014, 65, 844-862.	2.1	9
49	Molecular Dynamics–Continuum Hybrid Simulation for the Impingement of Droplet on a Liquid Film. Numerical Heat Transfer; Part A: Applications, 2015, 68, 512-525.	2.1	9
50	Numerical Study of the Solid Particle Erosion on H-Type Finned Circular/Elliptic Tube Surface. Communications in Computational Physics, 2017, 21, 466-489.	1.7	9
51	Predicting the transport process of indoor semi-volatile organic compounds via lattice Boltzmann method. Building and Environment, 2015, 94, 82-96.	6.9	8
52	Melting evaluation of a thermal energy storage unit with partially filled metal foam <sup>*</sup> . International Journal of Energy Research, 2022, 46, 195-211.	4.5	8
53	Bacteria–Triggered Solar Hydrogen Production via Platinum(II)–Tethered Chalcogenoviologens. Angewandte Chemie - International Edition, 2022, 61, e202115298.	13.8	8
54	Comparison of Robustness and Efficiency for SIMPLE and CLEAR Algorithms with 13 High-Resolution Convection Schemes in Compressible Flows. Numerical Heat Transfer, Part B: Fundamentals, 2014, 66, 133-161.	0.9	7

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55	Numerical Study on Some Improvements in the Passive Cooling System of a Radio Base Station Base on Multiscale Thermal Modeling Methodology—Part II—Results of Multiscale Numerical Simulation and Subsequent Improvements of Cooling Techniques. Numerical Heat Transfer; Part A: Applications, 2014, 65, 863-884.	2.1	6
56	Modeling of the Transport Phenomena in Passive Direct Methanol Fuel Cells Using a Two-Phase Anisotropic Model. Advances in Mechanical Engineering, 2014, 6, 812706.	1.6	6
57	Numerical investigation of SVOC mass transport in a tube by an axisymmetric lattice Boltzmann method. Building and Environment, 2018, 128, 180-189.	6.9	4
58	Thermo-Hydraulic Performance Evaluation, Field Synergy, and Entransy Dissipation Analysis for Hexagon-Like and Circular-Like Pin Finned Tube Bundles. Heat Transfer Engineering, 2018, 39, 1166-1178.	1.9	4
59	Coarse-grained area-difference-elasticity membrane model coupled with IB—LB method for simulation of red blood cell morphology. Physica A: Statistical Mechanics and Its Applications, 2018, 509, 1183-1194.	2.6	3
60	Modeling of Multiprocess Behavior for Feedstock-Mixed Porous Pellet: Heat and Mass Transfer, Chemical Reaction, and Phase Change. ACS Sustainable Chemistry and Engineering, 0, , .	6.7	3
61	Efficient use of waste heat and solar energy: Technologies of cooling, heating, power generation and heat transfer. Frontiers in Energy, 2017, 11, 411-413.	2.3	2
62	Numerical investigation of dust sedimentation effects on wall adsorption of indoor SVOC by the immersed boundary-lattice Boltzmann method. Building and Environment, 2020, 180, 106974.	6.9	2
63	Numerical simulation of the growth characteristics of laser chemical vapor deposition of silicon carbide. Numerical Heat Transfer; Part A: Applications, 2019, 75, 242-253.	2.1	0
64	Modeling Fouling Process on Tubes with Lattice Boltzmann Method and Immersed Boundary Method. , 2021, , 423-426.		0
65	The Two-Level Stabilized Finite Element Method Based on Multiscale Enrichment for the Stokes Eigenvalue Problem. Acta Mathematica Scientia, 2021, 41, 381-396.	1.0	0