

Wen-Quan Tao

List of Publications by Year in descending order

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papers

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times ranked

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#	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	Field synergy principle for enhancing convective heat transfer—its extension and numerical verifications. <i>International Journal of Heat and Mass Transfer</i> , 2002, 45, 3849-3856.	4.8	298
3	Review of methodologies and polices for evaluation of energy efficiency in high energy-consuming industry. <i>Applied Energy</i> , 2017, 187, 203-215.	10.1	229
4	Nanoscale simulation of shale transport properties using the lattice Boltzmann method: permeability and diffusivity. <i>Scientific Reports</i> , 2015, 5, 8089.	3.3	206
5	Pore-scale flow and mass transport in gas diffusion layer of proton exchange membrane fuel cell with interdigitated flow fields. <i>International Journal of Thermal Sciences</i> , 2012, 51, 132-144.	4.9	183
6	Numerical investigation of the coupled water and thermal management in PEM fuel cell. <i>Applied Energy</i> , 2013, 112, 1115-1125.	10.1	169
7	Parametric Numerical Study of Flow and Heat Transfer in Microchannels With Wavy Walls. <i>Journal of Heat Transfer</i> , 2011, 133, .	2.1	154
8	Pore-scale modeling of complex transport phenomena in porous media. <i>Progress in Energy and Combustion Science</i> , 2022, 88, 100968.	31.2	139
9	Pore-scale modeling of multiphase reactive transport with phase transitions and dissolution-precipitation processes in closed systems. <i>Physical Review E</i> , 2013, 87, 043306.	2.1	131
10	Experimental and numerical studies of liquid flow and heat transfer in microtubes. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 3447-3460.	4.8	121
11	Predicting Effective Diffusivity of Porous Media from Images by Deep Learning. <i>Scientific Reports</i> , 2019, 9, 20387.	3.3	110
12	Multi-scale modeling of proton exchange membrane fuel cell by coupling finite volume method and lattice Boltzmann method. <i>International Journal of Heat and Mass Transfer</i> , 2013, 63, 268-283.	4.8	101
13	Generalized lattice Boltzmann model for flow through tight porous media with Klinkenberg's effect. <i>Physical Review E</i> , 2015, 91, 033004.	2.1	96
14	Pore-scale study of dissolution-induced changes in hydrologic properties of rocks with binary minerals. <i>Water Resources Research</i> , 2014, 50, 9343-9365.	4.2	91
15	Lattice Boltzmann modeling of pool boiling with large liquid-gas density ratio. <i>International Journal of Thermal Sciences</i> , 2017, 114, 172-183.	4.9	84
16	3D numerical simulation on shell-and-tube heat exchangers with middle-overlapped helical baffles and continuous baffles — Part II: Simulation results of periodic model and comparison between continuous and noncontinuous helical baffles. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 5381-5389.	4.8	81
17	Meshless method based on the local weak-forms for steady-state heat conduction problems. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 3103-3112.	4.8	74
18	Heat transfer correlation of the falling film evaporation on a single horizontal smooth tube. <i>Applied Thermal Engineering</i> , 2016, 103, 177-186.	6.0	72

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19	Highly luminescent sensing for nitrofurans and tetracyclines in water based on zeolitic imidazolate framework-8 incorporated with dyes. <i>Talanta</i> , 2019, 204, 344-352.	5.5	71
20	Using a strong chemical oxidant, potassium ferrate (K ₂ FeO ₄), in waste activated sludge treatment: A review. <i>Environmental Research</i> , 2020, 188, 109764.	7.5	71
21	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
22	Pore-scale study of multiphase reactive transport in fibrous electrodes of vanadium redox flow batteries. <i>Electrochimica Acta</i> , 2017, 248, 425-439.	5.2	64
23	Prediction of fully developed turbulent heat transfer of internal helically ribbed tubes ? An extension of Gnielinski equation. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 1375-1384.	4.8	63
24	Numerical studies on the inherent interrelationship between field synergy principle and entransy dissipation extreme principle for enhancing convective heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2014, 74, 196-205.	4.8	62
25	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
26	Multiscale Simulations of Heat Transfer and Fluid Flow Problems. <i>Journal of Heat Transfer</i> , 2012, 134, .	2.1	61
27	Modeling a hybrid methodology for evaluating and forecasting regional energy efficiency in China. <i>Applied Energy</i> , 2017, 185, 1769-1777.	10.1	60
28	Numerical prediction of effective thermal conductivities of 3D four-directional braided composites. <i>Composite Structures</i> , 2015, 125, 499-508.	5.8	59
29	Ultrasensitive detection of Cr(VI) (CrO ₄ ²⁻ /CrO ₂ ⁺) ions in water environment with a fluorescent sensor based on metal-organic frameworks combined with sulfur quantum dots. <i>Analytica Chimica Acta</i> , 2020, 1131, 68-79.	5.4	59
30	Bubble nucleation over patterned surfaces with different wettabilities: Molecular dynamics investigation. <i>International Journal of Heat and Mass Transfer</i> , 2019, 136, 1-9.	4.8	58
31	Evaluation of thermal hydrolysis efficiency of mechanically dewatered sewage sludge via rheological measurement. <i>Water Research</i> , 2017, 116, 34-43.	11.3	57
32	Pore scale study of multiphase multicomponent reactive transport during CO ₂ dissolution trapping. <i>Advances in Water Resources</i> , 2018, 116, 208-218.	3.8	57
33	Numerical studies of simultaneously developing laminar flow and heat transfer in microtubes with thick wall and constant outside wall temperature. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 3977-3989.	4.8	56
34	Experimental investigations of R134a and R123 falling film evaporation on enhanced horizontal tubes. <i>International Journal of Refrigeration</i> , 2017, 75, 190-203.	3.4	56
35	Modeling of the effects of cathode catalyst layer design parameters on performance of polymer electrolyte membrane fuel cell. <i>Applied Energy</i> , 2020, 277, 115555.	10.1	56
36	Numerical prediction for laminar forced convection heat transfer in parallel-plate channels with streamwise-periodic rod disturbances. <i>International Journal for Numerical Methods in Fluids</i> , 1998, 28, 1371-1387.	1.6	54

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37	Evaluation of the coupling scheme of FVM and LBM for fluid flows around complex geometries. International Journal of Heat and Mass Transfer, 2011, 54, 1975-1985.	4.8	51
38	Effect of vapor flow on the falling film evaporation of R134a outside a horizontal tube bundle. International Journal of Heat and Mass Transfer, 2016, 92, 1171-1181.	4.8	51
39	Scale effect on flow and thermal boundaries in micro/nano channel flow using molecular dynamics-continuum hybrid simulation method. International Journal for Numerical Methods in Engineering, 2010, 81, 207-228.	2.8	49
40	Molecular dynamics studies of bubble nucleation on a grooved substrate. International Journal of Heat and Mass Transfer, 2020, 158, 119850.	4.8	49
41	A three-dimensional volume of fluid & level set (VOSET) method for incompressible two-phase flow. Computers and Fluids, 2015, 118, 293-304.	2.5	48
42	Highly sensitive and selective fluorescent detection of phosphate in water environment by a functionalized coordination polymer. Water Research, 2019, 163, 114883.	11.3	48
43	Experimental investigation of R410A and R32 falling film evaporation on horizontal enhanced tubes. Applied Thermal Engineering, 2018, 137, 739-748.	6.0	44
44	Study of thermal contact resistance of rough surfaces based on the practical topography. Computers and Fluids, 2018, 164, 2-11.	2.5	44
45	Investigation of Re -independence of turbulent flow and pollutant dispersion in urban street canyon using numerical wind tunnel (NWT) models. International Journal of Heat and Mass Transfer, 2014, 79, 176-188.	4.8	42
46	A NEW HIGH-ORDER-ACCURATE AND BOUNDED SCHEME FOR INCOMPRESSIBLE FLOW. Numerical Heat Transfer, Part B: Fundamentals, 2003, 43, 19-41.	0.9	41
47	The Temperature Effect on the Diffusion Processes of Water and Proton in the Proton Exchange Membrane Using Molecular Dynamics Simulation. Numerical Heat Transfer; Part A: Applications, 2014, 65, 216-228.	2.1	41
48	Numerical study of effective thermal conductivities of plain woven composites by unit cells of different sizes. International Journal of Heat and Mass Transfer, 2015, 91, 829-840.	4.8	41
49	Three-dimensional transport model of PEM fuel cell with straight flow channels. Journal of Power Sources, 2006, 158, 25-35.	7.8	40
50	Numerical investigation of liquid water transport and distribution in porous gas diffusion layer of a proton exchange membrane fuel cell using lattice Boltzmann method. Russian Journal of Electrochemistry, 2012, 48, 712-726.	0.9	40
51	Heat transfer correlations of refrigerant falling film evaporation on a single horizontal smooth tube. International Journal of Heat and Mass Transfer, 2019, 133, 96-106.	4.8	39
52	A multi-block lattice Boltzmann method for the thermal contact resistance at the interface of two solids. Applied Thermal Engineering, 2018, 138, 122-132.	6.0	38
53	Roughness effect on flow and thermal boundaries in microchannel/nanochannel flow using molecular dynamics-continuum hybrid simulation. International Journal for Numerical Methods in Engineering, 2012, 89, 2-19.	2.8	37
54	A compressible lattice Boltzmann finite volume model for high subsonic and transonic flows on regular lattices. Computers and Fluids, 2016, 131, 45-55.	2.5	37

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55	A test-validated prediction model of thermal contact resistance for Ti-6Al-4V alloy. <i>Applied Energy</i> , 2018, 228, 1601-1617.	10.1	37
56	How different freezing morphologies of impacting droplets form. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 403-410.	9.4	36
57	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
58	A comprehensive review on computational studies of falling film hydrodynamics and heat transfer on the horizontal tube and tube bundle. <i>Applied Thermal Engineering</i> , 2022, 202, 117869.	6.0	35
59	A stabilized MLPG method for steady state incompressible fluid flow simulation. <i>Journal of Computational Physics</i> , 2010, 229, 8564-8577.	3.8	33
60	A new indicator for a fair comparison on the energy performance of data centers. <i>Applied Energy</i> , 2020, 276, 115497.	10.1	33
61	Lattice Boltzmann mesoscopic modeling of flow boiling heat transfer processes in a microchannel. <i>Applied Thermal Engineering</i> , 2021, 197, 117369.	6.0	32
62	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
63	Experimental and numerical studies for applying hybrid solar chimney and photovoltaic system to the solar-assisted air cleaning system. <i>Applied Energy</i> , 2020, 269, 115150.	10.1	30
64	A Direct Numerical Simulation for Nucleate Boiling by the VOSET Method. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 65, 949-971.	2.1	29
65	Premixed Combustion in a Porous Burner with Different Fuels. <i>Combustion Science and Technology</i> , 2015, 187, 489-504.	2.3	29
66	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
67	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
68	Revealing the mechanisms for potassium ferrate affecting methane production from anaerobic digestion of waste activated sludge. <i>Bioresource Technology</i> , 2020, 317, 124022.	9.6	27
69	An Experimental Study on Heat/Mass Transfer and Pressure Drop Characteristics for Arrays of Nonuniform Plate Length Positioned Obliquely to the Flow Direction. <i>Journal of Heat Transfer</i> , 1993, 115, 568-575.	2.1	26
70	Pool boiling heat transfer of water and nanofluid outside the surface with higher roughness and different wettability. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2018, 22, 296-323.	2.6	26
71	Numerical simulations of the liquid-vapor phase change dynamic processes in a flat micro heat pipe. <i>International Journal of Heat and Mass Transfer</i> , 2020, 147, 119022.	4.8	26
72	Effect of thermal expansion on thermal contact resistance prediction based on the dual-iterative thermal-mechanical coupling method. <i>International Journal of Heat and Mass Transfer</i> , 2021, 173, 121243.	4.8	26

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73	Research on energy efficiency evaluation based on indicators for industry sectors in China. <i>Applied Energy</i> , 2014, 134, 550-562.	10.1	25
74	Numerical predictions of the effective thermal conductivity for needed C/C-SiC composite materials. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 70, 1101-1117.	2.1	25
75	Experimental Characterization of the Thermal Conductivity and Microstructure of Opacifier-Fiber-Aerogel Composite. <i>Molecules</i> , 2018, 23, 2198.	3.8	25
76	Pore-scale numerical study of multiphase reactive transport processes in cathode catalyst layers of proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 13283-13297.	7.1	25
77	The influence of surface structure and thermal conductivity of the tube on the condensation heat transfer of R134a and R404A over single horizontal enhanced tubes. <i>Applied Thermal Engineering</i> , 2017, 125, 1114-1122.	6.0	24
78	Numerical Study of Flow and Heat Transfer Enhancement by Using Delta Winglets in a Triangular Wavy Fin-and-Tube Heat Exchanger. <i>Journal of Heat Transfer</i> , 2009, 131, .	2.1	23
79	A lifting relation from macroscopic variables to mesoscopic variables in lattice Boltzmann method: Derivation, numerical assessments and coupling computations validation. <i>Computers and Fluids</i> , 2012, 54, 92-104.	2.5	23
80	Effect of downward vapor stream on falling film evaporation of R134a in a tube bundle. <i>International Journal of Refrigeration</i> , 2018, 89, 112-121.	3.4	22
81	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
82	Freezing pretreatment assists potassium ferrate to promote hydrogen production from anaerobic fermentation of waste activated sludge. <i>Science of the Total Environment</i> , 2021, 781, 146685.	8.0	22
83	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
84	Lattice Boltzmann method for conjugated heat and mass transfer with general interfacial conditions. <i>Physical Review E</i> , 2018, 98, .	2.1	21
85	Magnetic Actuation of Surface Walkers: The Effects of Confinement and Inertia. <i>Langmuir</i> , 2020, 36, 7046-7055.	3.5	19
86	Stability-Controllable Second-order Difference scheme for convection term. <i>Journal of Thermal Science</i> , 1998, 7, 119-130.	1.9	18
87	Performance analysis of IDEAL algorithm for three-dimensional incompressible fluid flow and heat transfer problems. <i>International Journal for Numerical Methods in Fluids</i> , 2009, 61, 1132-1160.	1.6	18
88	Coupled solid (FVM)–fluid (DSMC) simulation of micro-nozzle with unstructured-grid. <i>Microfluidics and Nanofluidics</i> , 2009, 7, 621-631.	2.2	18
89	A two-dimensional simulation method of the solar chimney power plant with a new radiation model for the collector. <i>International Communications in Heat and Mass Transfer</i> , 2017, 85, 100-106.	5.6	18
90	Advanced carbon sequestration by the hybrid system of photobioreactor and microbial fuel cell with novel photocatalytic porous framework. <i>Bioresource Technology</i> , 2021, 333, 125182.	9.6	18

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91	Analysis and extension of field synergy principle (FSP) for compressible boundary-layer heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2015, 84, 1061-1069.	4.8	17
92	Study on the effect of foreign particle on bubble nucleation by using molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , 2020, 305, 112876.	4.9	17
93	Potassium ferrate coupled with freezing method enhances methane production from sludge anaerobic digestion. <i>Bioresource Technology</i> , 2021, 332, 125112.	9.6	17
94	Parametric study and multiple correlations of an H-type finned tube bank in a fully developed region. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 70, 64-78.	2.1	16
95	Cross Vapor Stream Effect on Falling Film Evaporation in Horizontal Tube Bundle Using R134a. <i>Heat Transfer Engineering</i> , 2018, 39, 724-737.	1.9	16
96	Falling film evaporation in a triangular tube bundle under the influence of cross vapor stream. <i>International Journal of Refrigeration</i> , 2020, 112, 44-55.	3.4	15
97	Study of vibrational droplet triboelectric nanogenerator on structural and operational parameters. <i>Nano Energy</i> , 2020, 70, 104473.	16.0	15
98	Implementation of an efficient segregated algorithm-IDEAL on 3D collocated grid system. <i>Science Bulletin</i> , 2009, 54, 929-942.	9.0	14
99	Application of Combined Enhanced Techniques for Design of Highly Efficient Air Heat Transfer Surface. <i>Heat Transfer Engineering</i> , 2012, 33, 52-62.	1.9	14
100	CFD analysis of SVOC mass transfer in different chambers. <i>International Journal of Heat and Mass Transfer</i> , 2016, 99, 613-621.	4.8	14
101	Molecular Dynamics Study of Bubble Nucleation on a Substrate with Nonuniform Wettability. <i>Langmuir</i> , 2020, 36, 5336-5348.	3.5	14
102	Multiscale modeling of proton exchange membrane fuel cells by coupling pore-scale models of the catalyst layers and cell-scale models. <i>International Journal of Green Energy</i> , 2021, 18, 1147-1160.	3.8	14
103	Implementation of the IDEAL Algorithm on Nonorthogonal Curvilinear Coordinates for the Solution of 3-D Incompressible Fluid Flow and Heat Transfer Problems. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2011, 59, 147-168.	0.9	13
104	Numerical Simulation of Non-Equilibrium Conjugate Heat Transfer in Tubes Partially Filled with Metallic Foams. <i>Journal of Thermal Science and Technology</i> , 2012, 7, 151-165.	1.1	13
105	Numerical Solutions of Nano/Microphenomena Coupled With Macroscopic Process of Heat Transfer and Fluid Flow: A Brief Review. <i>Journal of Heat Transfer</i> , 2015, 137, .	2.1	13
106	Thermal conductivity of composite building materials: A pore scale modeling approach. <i>International Journal of Heat and Mass Transfer</i> , 2020, 148, 118691.	4.8	13
107	Molecular Dynamics Study of Bubble Nucleation on an Ideally Smooth Substrate. <i>Langmuir</i> , 2020, 36, 13725-13734.	3.5	13
108	Pore-scale numerical prediction of three-phase relative permeability in porous media using the lattice Boltzmann method. <i>International Communications in Heat and Mass Transfer</i> , 2021, 126, 105403.	5.6	13

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109	Self-peeling of frozen water droplets upon impacting a cold surface. <i>Communications Physics</i> , 2022, 5, .	5.3	13
110	Comparative Study on Triangular and Quadrilateral Meshes by a Finite-Volume Method with a Central Difference Scheme. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2012, 62, 243-263.	0.9	12
111	Mesosopic analyses of the impact of morphology and operating conditions on the transport resistances in a proton-exchange-membrane fuel-cell catalyst layer. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3623-3639.	4.9	12
112	Pore-scale study of three-phase displacement in porous media. <i>Physics of Fluids</i> , 2022, 34, .	4.0	12
113	MLPG/SUPG Method for Convection-Dominated Problems. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2012, 61, 36-51.	0.9	11
114	A New Hybrid Algorithm for Numerical Simulation of VOC Emissions Using Single-Layer and Multilayer Approaches. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2015, 67, 211-230.	0.9	11
115	Molecular dynamics simulation of water permeation through the Nafion membrane. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 70, 1232-1241.	2.1	11
116	Numerical prediction of effective thermal conductivity of ceramic fiber board using lattice Boltzmann method. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018, 74, 1285-1300.	2.1	11
117	Numerical studies on issues of Re-independence for indoor airflow and pollutant dispersion within an isolated building. <i>Building Simulation</i> , 2022, 15, 1259-1276.	5.6	11
118	Lattice Boltzmann study on thermoacoustic onset in a Rijke tube. <i>European Physical Journal Plus</i> , 2015, 130, 1.	2.6	10
119	Numerical simulation of nucleate boiling in shallow liquid. <i>Computers and Fluids</i> , 2018, 164, 35-40.	2.5	10
120	Application and numerical error analysis of multiscale method for air flow, heat and pollutant transfer through different scale urban areas. <i>Building and Environment</i> , 2019, 149, 349-365.	6.9	10
121	Discussion on Numerical Treatment of Periodic Boundary Condition for Temperature. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2007, 52, 429-448.	0.9	9
122	Numerical Study on Some Improvements in the Passive Cooling System of a Radio Base Station Base on Multiscale Thermal Modeling Methodologyâ€“Part I: Confirmation of Simplified Models. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 65, 844-862.	2.1	9
123	Molecular Dynamicsâ€“Continuum Hybrid Simulation for the Impingement of Droplet on a Liquid Film. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 68, 512-525.	2.1	9
124	Numerical Study of the Solid Particle Erosion on H-Type Finned Circular/Elliptic Tube Surface. <i>Communications in Computational Physics</i> , 2017, 21, 466-489.	1.7	9
125	A hybrid flux splitting method for compressible flow. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2018, 73, 33-47.	0.9	9
126	Two-dimensional numerical model for predicting fouling shape growth based on immersed boundary method and lattice Boltzmann method. <i>Applied Thermal Engineering</i> , 2020, 179, 115755.	6.0	9

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127	Computational fluid dynamics prediction of formaldehyde emission and sorption processes in a small test chamber with mixing fan and vents. <i>Atmospheric Environment</i> , 2020, 229, 117455.	4.1	9
128	Study on mitigation of automobile exhaust pollution in an urban street canyon: Emission reduction and air cleaning street lamps. <i>Building and Environment</i> , 2021, 193, 107651.	6.9	9
129	Calcium Hypochlorite Promotes Dark Fermentative Hydrogen Production from Waste Activated Sludge. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2509-2521.	6.7	9
130	1 part per trillion level detection of disinfection byproducts in drinking water using miniaturized sensor. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4842-4849.	10.3	8
131	Study on method of comprehensive energy efficiency evaluation for distributed energy system. , 2017, , .		8
132	Application of similarity theory in modeling the output characteristics of proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 36940-36953.	7.1	8
133	Highly stable and methanol tolerant oxygen reduction reaction electrocatalyst Co/CoO/SnO@N-C nanocubes by one-step introduction of functional components. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 917-927.	7.1	8
134	Enhanced methane yield through sludge two-phase anaerobic digestion process with the addition of calcium hypochlorite. <i>Bioresource Technology</i> , 2022, 347, 126693.	9.6	8
135	A New General Convective Boundedness Criterion. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2006, 49, 585-598.	0.9	7
136	Comparison of Robustness and Efficiency for SIMPLE and CLEAR Algorithms with 13 High-Resolution Convection Schemes in Compressible Flows. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2014, 66, 133-161.	0.9	7
137	Topology optimization of the manifold microchannels with triple-objective functions. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2021, 80, 89-114.	0.9	7
138	A new performance evaluation method and its application in fin-tube surface design of small diameter tube. <i>Frontiers in Energy</i> , 2011, 5, 59-68.	2.3	6
139	Numerical Study on Some Improvements in the Passive Cooling System of a Radio Base Station Base on Multiscale Thermal Modeling Methodologyâ€”Part IIâ€”Results of Multiscale Numerical Simulation and Subsequent Improvements of Cooling Techniques. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 65, 863-884.	2.1	6
140	Numerical predictions of the effective thermal conductivity of the rigid polyurethane foam. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 703-708.	1.0	6
141	A new stability parameter in streamline upwind meshless Petrovâ€”Galerkin method for convectionâ€”diffusion problems at large Peclet number. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2018, 74, 746-764.	0.9	6
142	A numerical investigation on dynamics of ferrofluid droplet in nonuniform magnetic field. <i>Numerical Heat Transfer; Part A: Applications</i> , 2019, 75, 690-707.	2.1	6
143	Peripheral heat transfer prediction of the subcooled falling liquid film on a horizontal smooth tube. <i>Physics of Fluids</i> , 2021, 33, .	4.0	6
144	Application of similarity theory in the study of proton exchange membrane fuel cells: a comprehensive review of recent developments and future research requirements. <i>Energy Storage and Saving</i> , 2022, 1, 3-21.	7.5	6

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145	Study on General Governing Equations of Computational Heat Transfer and Fluid Flow. Communications in Computational Physics, 2012, 12, 1482-1494.	1.7	5
146	Semi-analytical solution for fully developed forced convection in metal-foam filled tube with uniform wall temperature. Science China Technological Sciences, 2014, 57, 2487-2499.	4.0	5
147	A Compressible Thermal Lattice Boltzmann Model with Factorization Symmetry. Numerical Heat Transfer, Part B: Fundamentals, 2014, 66, 544-562.	0.9	5
148	Grand Canonical Monte Carlo Simulation of Nitrogen Adsorption in a Silica Aerogel Model. Computation, 2016, 4, 18.	2.0	5
149	A physically consistent FVM interpolation scheme based on the discretized convection-diffusion equation. Numerical Heat Transfer, Part B: Fundamentals, 2017, 71, 443-455.	0.9	5
150	A meshless local Petrov-Galerkin approach for solving the convection-dominated problems based on the streamline upwind idea and the variational multiscale concept. Numerical Heat Transfer, Part B: Fundamentals, 2018, 73, 19-32.	0.9	5
151	Numerical investigation on the nucleate pool boiling heat transfer of R134a outside the plain tube. Numerical Heat Transfer; Part A: Applications, 2019, 76, 889-908.	2.1	5
152	Numerical Simulation of the Physical-Chemical-Thermal Processes During Hydration Reaction of the Calcium Oxide/Calcium Hydroxide System in an Indirect Reactor. Transport in Porous Media, 2021, 140, 667-696.	2.6	5
153	Two-dimensional pore-scale investigation of liquid water evolution in the cathode of proton exchange membrane fuel cells. Numerical Heat Transfer; Part A: Applications, 2021, 79, 261-277.	2.1	5
154	My 50-year life in studying heat transfer. Applied Thermal Engineering, 2021, 194, 116947.	6.0	5
155	Experimental study of using aerofoils in a refrigerated display cabinet. International Journal of Thermofluids, 2022, 14, 100140.	7.8	5
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