Sheng Chen

List of Publications by Year
in descending order

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		126858	214721
111	3,096	33	47
papers	citations	h-index	g-index

111	111	111	2078
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Global, regional and national burden of low back pain 1990â€“2019: A systematic analysis of the Global Burden of Disease study 2019. Journal of Orthopaedic Translation, 2022, 32, 49-58.	1.9	127
2	Kindlin-2 inhibits Nlrp3 inflammasome activation in nucleus pulposus to maintain homeostasis of the intervertebral disc. Bone Research, 2022, 10, 5.	5.4	48
3	Kindlin-2 preserves integrity of the articular cartilage to protect against osteoarthritis. Nature Aging, 2022, 2, 332-347.	5.3	21
4	Utilize mechanical vibration energy for fast thermal responsive PCMs-based energy storage systems: Prototype research by numerical simulation. Renewable Energy, 2022, 187, 974-986.	4.3	9
5	Metformin in aging and aging-related diseases: clinical applications and relevant mechanisms. Theranostics, 2022, 12, 2722-2740.	4.6	45
6	Simulation of conjugate mass transfer in multiphase flow: A new unified approach based on the phase field method. International Communications in Heat and Mass Transfer, 2022, 133, 105965.	2.9	2
7	Comparison of droplet-particle interaction on a stationary and a moving particle. Chemical Engineering Science, 2022, 253, 117552.	1.9	8
8	Simulation on a three-dimensional collision of a moving droplet against a moving super-hydrophobic particle. Powder Technology, 2022, 405, 117558.	2.1	9
9	Kindlin-2 loss in condylar chondrocytes causes spontaneous osteoarthritic lesions in the temporomandibular joint in mice. International Journal of Oral Science, 2022, 14, .	3.6	11
10	HIF1A Alleviates compression-induced apoptosis of nucleus pulposus derived stem cells via upregulating autophagy. Autophagy, 2021, 17, 3338-3360.	4.3	82
11	Reactive Oxygen Species Regulate Endoplasmic Reticulum Stress and ER-Mitochondrial Ca2+ Crosstalk to Promote Programmed Necrosis of Rat Nucleus Pulposus Cells under Compression. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-20.	1.9	21
12	Heat transfer of large Prandtl number fluids in porous media by a new lattice Boltzmann model. International Communications in Heat and Mass Transfer, 2021, 122, 105129.	2.9	11
13	Effect of inclination angle on melting process of phase change materials in a square cavity under mechanical vibration. Journal of Energy Storage, 2021, 36, 102392.	3.9	15
14	Effects of mechanical vibration on melting behaviour of phase change material during charging process. Applied Thermal Engineering, 2021, 192, 116914.	3.0	21
15	A new lattice Boltzmann method for melting processes of high Prandtl number phase change materials. Journal of Energy Storage, 2021, 41, 103006.	3.9	5
16	Simulating the collision of a moving droplet against a moving particle: Impact of Bond number, wettability, size ratio, and eccentricity. Physics of Fluids, 2021, 33, .	1.6	11
17	Roles of mechanosensitive channel Piezo1/2 proteins in skeleton and other tissues. Bone Research, 2021, 9, 44.	5.4	63
18	Comparison of different methods for the isolation and purification of rat nucleus pulposus-derived mesenchymal stem cells. Connective Tissue Research, 2020, 61, 426-434.	1.1	14

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19	TIGAR impedes compressionâ€induced intervertebral disc degeneration by suppressing nucleus pulposus cell apoptosis and autophagy. Journal of Cellular Physiology, 2020, 235, 1780-1794.	2.0	25
20	Heme Oxygenase-1-Mediated Autophagy Protects against Oxidative Damage in Rat Nucleus Pulposus-Derived Mesenchymal Stem Cells. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-14.	1.9	6
21	Moderate Fluid Shear Stress Regulates Heme Oxygenase-1 Expression to Promote Autophagy and ECM Homeostasis in the Nucleus Pulposus Cells. Frontiers in Cell and Developmental Biology, 2020, 8, 127.	1.8	18
22	Thermal performance analysis of a porous solar cavity receiver. Renewable Energy, 2020, 156, 558-569.	4.3	8
23	Compressionâ€induced senescence of nucleus pulposus cells by promoting mitophagy activation via the PINK1/PARKIN pathway. Journal of Cellular and Molecular Medicine, 2020, 24, 5850-5864.	1.6	26
24	Kindlin-2 regulates skeletal homeostasis by modulating PTH1R in mice. Signal Transduction and Targeted Therapy, 2020, 5, 297.	7.1	31
25	Moderate activation of Wnt/Î²â€catenin signaling promotes the survival of rat nucleus pulposus cells via regulating apoptosis, autophagy, and senescence. Journal of Cellular Biochemistry, 2019, 120, 12519-12533.	1.2	21
26	Hydrogen peroxide induces programmed necrosis in rat nucleus pulposus cells through the RIP1/RIP3â€PARPâ€AIF pathway. Journal of Orthopaedic Research, 2018, 36, 1269-1282.	1.2	31
27	Conjugate natural convection heat transfer in an open-ended square cavity partially filled with porous media. International Journal of Heat and Mass Transfer, 2018, 124, 368-380.	2.5	33
28	A study on the unphysical mass transfer of SCMP pseudopotential LBM. International Journal of Heat and Mass Transfer, 2018, 123, 815-820.	2.5	7
29	Simulation of conjugate heat transfer between fluid-saturated porous media and solid wall. International Journal of Thermal Sciences, 2018, 124, 477-483.	2.6	13
30	Effect of Compression Loading on Human Nucleus Pulposus-Derived Mesenchymal Stem Cells. Stem Cells International, 2018, 2018, 1-10.	1.2	23
31	Prognostic value of Kindlin-2 expression in patients with solid tumors: a meta-analysis. Cancer Cell International, 2018, 18, 166.	1.8	4
32	Association of COL9A3 trp3 polymorphism with intervertebral disk degeneration: a meta-analysis. BMC Musculoskeletal Disorders, 2018, 19, 381.	0.8	6
33	Fundamentals of Oxy-fuel Combustion. , 2018, , 13-30.		7
34	Icariin Improves the Viability and Function of Cryopreserved Human Nucleus Pulposus-Derived Mesenchymal Stem Cells. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-12.	1.9	17
35	Simulation of interaction between a freely moving solid particle and a freely moving liquid droplet by lattice Boltzmann method. International Journal of Heat and Mass Transfer, 2018, 127, 474-484.	2.5	23
36	Simulation of double diffusive convection in fluid-saturated porous media by lattice Boltzmann method. International Journal of Heat and Mass Transfer, 2017, 108, 1501-1510.	2.5	38

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37	Wetting transition energy curves for a droplet on a square-post patterned surface. Science Bulletin, 2017, 62, 136-142.	4.3	35
38	Methane combustion in MILD oxyfuel regime: Influences of dilution atmosphere in co-flow configuration. Energy, 2017, 121, 159-175.	4.5	25
39	A numerical investigation on flame stability of oxy-coal combustion: Effects of blockage ratio, swirl number, recycle ratio and partial pressure ratio of oxygen. International Journal of Greenhouse Gas Control, 2017, 57, 63-72.	2.3	11
40	A hybrid of B and T lymphoblastic cell line could potentially substitute dendritic cells to efficiently expand out Her-2/neu-specific cytotoxic T lymphocytes from advanced breast cancer patients in vitro. Journal of Hematology and Oncology, 2017, 10, 63.	6.9	5
41	Natural convection of SiO2-water nanofluid in square cavity with thermal square column. Applied Mathematics and Mechanics (English Edition), 2017, 38, 585-602.	1.9	7
42	A lattice Boltzmann model for heat transfer in porous media. International Journal of Heat and Mass Transfer, 2017, 111, 1019-1022.	2.5	16
43	A thermal immiscible multiphase flow simulation by lattice Boltzmann method. International Communications in Heat and Mass Transfer, 2017, 88, 136-138.	2.9	10
44	Numerical study of wetting transitions on biomimetic surfaces using a lattice Boltzmann approach with large density ratio. Journal of Bionic Engineering, 2017, 14, 486-496.	2.7	15
45	Size and thermal effects on sedimentation behaviors of two spheres. International Journal of Heat and Mass Transfer, 2017, 114, 198-206.	2.5	3
46	Direct numerical simulations of particle sedimentation with heat transfer using the Lattice Boltzmann method. International Journal of Heat and Mass Transfer, 2017, 104, 419-437.	2.5	8
47	Mesenchymal Stem Cells Protect Nucleus Pulposus Cells from Compression-Induced Apoptosis by Inhibiting the Mitochondrial Pathway. Stem Cells International, 2017, 2017, 1-10.	1.2	40
48	Icariin Prevents H2O2-Induced Apoptosis via the PI3K/Akt Pathway in Rat Nucleus Pulposus Intervertebral Disc Cells. Evidence-based Complementary and Alternative Medicine, 2017, 2017, 1-10.	0.5	10
49	A lattice Boltzmann model for heat transfer in heterogeneous media. International Journal of Heat and Mass Transfer, 2016, 102, 637-644.	2.5	28
50	Methane combustion in various regimes: First and second thermodynamic-law comparison between air-firing and oxyfuel condition. Energy, 2016, 115, 26-37.	4.5	9
51	Physical and Chemical Effects of CO2Addition on CH4/H2Flames on a Jet in Hot Coflow (JHC) Burner. Energy & Fuels, 2016, , .	2.5	9
52	Double diffusion natural convection in a square cavity filled with nanofluid. International Journal of Heat and Mass Transfer, 2016, 95, 1070-1083.	2.5	37
53	Lattice Boltzmann simulation of two cold particles settling in Newtonian fluid with thermal convection. International Journal of Heat and Mass Transfer, 2016, 93, 477-490.	2.5	30
54	Effects of furnace chamber shape on the MILD combustion of natural gas. Applied Thermal Engineering, 2015, 76, 64-75.	3.0	65

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55	Numerical study of H 2 O addition effects on pulverized coal oxy-MILD combustion. Fuel Processing Technology, 2015, 138, 252-262.	3.7	61
56	Analysis of entropy generation in double-diffusive natural convection of nanofluid. International Journal of Heat and Mass Transfer, 2015, 87, 447-463.	2.5	37
57	First and second thermodynamic-law comparison of biogas MILD oxy-fuel combustion moderated by CO2 or H2O. Energy Conversion and Management, 2015, 106, 625-634.	4.4	41
58	Simulating the interactions of two freely settling spherical particles in Newtonian fluid using lattice-Boltzmann method. Applied Mathematics and Computation, 2015, 250, 533-551.	1.4	24
59	Numerical study of combustion characteristics for pulverized coal under oxy-MILD operation. Fuel Processing Technology, 2015, 135, 80-90.	3.7	62
60	Expression and implication of toll-like receptors TLR2, TLR4 and TLR9 in colonic mucosa of patients with ulcerative colitis. Journal of Huazhong University of Science and Technology [Medical Sciences], 2014, 34, 785-790.	1.0	27
61	Simple lattice Boltzmann approach for turbulent buoyant flow simulation. Applied Mathematics and Mechanics (English Edition), 2013, 34, 1339-1348.	1.9	2
62	Physical and Chemical Effects of CO₂ and H₂O Additives on Counterflow Diffusion Flame Burning Methane. Energy & Fuels, 2013, 27, 7602-7611.	2.5	62
63	A NUMERICAL STUDY ON PREMIXED MICROCOMBUSTION BY LATTICE BOLTZMANN METHOD. International Journal of Modern Physics C, 2012, 23, 1250037.	0.8	4
64	Simulation of the flow around an upstream transversely oscillating cylinder and a stationary cylinder in tandem. Physics of Fluids, 2012, 24, .	1.6	13
65	Mathematical Modeling of Airâ€“ and Oxyâ€“Coal Confined Swirling Flames on Two Extended Eddy-Dissipation Models. Industrial & Engineering Chemistry Research, 2012, 51, 691-703.	1.8	26
66	Comparison of Different Global Combustion Mechanisms Under Hot and Diluted Oxidation Conditions. Combustion Science and Technology, 2012, 184, 259-276.	1.2	61
67	Lattice Boltzmann simulation of the convective heat transfer from a stream-wise oscillating circular cylinder. International Journal of Heat and Fluid Flow, 2012, 37, 147-153.	1.1	12
68	A simple enthalpy-based lattice Boltzmann scheme for complicated thermal systems. Journal of Computational Physics, 2012, 231, 8278-8294.	1.9	15
69	Effect of Richardson number on entropy generation over backward facing step. Applied Mathematics and Mechanics (English Edition), 2012, 33, 1431-1440.	1.9	2
70	An experimental study on turbulence modification in the near-wall boundary layer of a dilute gas-particle channel flow. Experiments in Fluids, 2012, 53, 1385-1403.	1.1	47
71	Numerical study of turbulent double-diffusive natural convection in a square cavity by LES-based lattice Boltzmann model. International Journal of Heat and Mass Transfer, 2012, 55, 4862-4870.	2.5	34
72	First and second thermodynamic-law analyses of hydrogen-air counter-flow diffusion combustion in various combustion modes. International Journal of Hydrogen Energy, 2012, 37, 5234-5245.	3.8	41

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73	Simulating Turbulent Buoyant Flow by a Simple LES-Based Thermal Lattice Boltzmann Model. ISRN Thermodynamics, 2012, 2012, 1-9.	0.6	1
74	Counterflow diffusion flame of hydrogen-enriched biogas under MILD oxy-fuel condition. International Journal of Hydrogen Energy, 2011, 36, 15403-15413.	3.8	75
75	Entropy generation of double-diffusive convection in the presence of rotation. Applied Mathematics and Computation, 2011, 217, 8575-8597.	1.4	8
76	Progress and recent trend in MILD combustion. Science China Technological Sciences, 2011, 54, 255-269.	2.0	133
77	Entropy generation inside disk driven rotating convectional flow. International Journal of Thermal Sciences, 2011, 50, 626-638.	2.6	9
78	Entropy generation of turbulent double-diffusive natural convection in a rectangle cavity. Energy, 2011, 36, 1721-1734.	4.5	47
79	Simulation of thermal micro-flow using lattice Boltzmann method with Langmuir slip model. International Journal of Heat and Fluid Flow, 2010, 31, 227-235.	1.1	61
80	Entropy generation analysis of thermal micro-Couette flows in slip regime. International Journal of Thermal Sciences, 2010, 49, 2211-2221.	2.6	30
81	Numerical investigation of double-diffusive (natural) convection in vertical annuluses with opposing temperature and concentration gradients. International Journal of Heat and Fluid Flow, 2010, 31, 217-226.	1.1	101
82	Analysis of entropy generation in counter-flow premixed hydrogenâ€“air combustion. International Journal of Hydrogen Energy, 2010, 35, 1401-1411.	3.8	45
83	Effects of hydrogen addition on entropy generation in ultra-lean counter-flow methane-air premixed combustion. International Journal of Hydrogen Energy, 2010, 35, 3891-3902.	3.8	49
84	Analysis of entropy generation in non-premixed hydrogen versus heated air counter-flow combustion. International Journal of Hydrogen Energy, 2010, 35, 4736-4746.	3.8	34
85	Lattice Boltzmann method for slip flow heat transfer in circular microtubes: Extended Graetz problem. Applied Mathematics and Computation, 2010, 217, 3314-3320.	1.4	17
86	Entropy generation in impinging flow confined by planar opposing jets. International Journal of Thermal Sciences, 2010, 49, 2067-2075.	2.6	19
87	Simulating compositional convection in the presence of rotation by lattice Boltzmann model. International Journal of Thermal Sciences, 2010, 49, 2093-2107.	2.6	10
88	Natural convection and entropy generation in a vertically concentric annular space. International Journal of Thermal Sciences, 2010, 49, 2439-2452.	2.6	21
89	LATTICE BOLTZMANN SIMULATION OF GASEOUS FINITE-KNUDSEN MICROFLOWS. International Journal of Modern Physics C, 2010, 21, 769-783.	0.8	10
90	Analysis of entropy generation in hydrogen-enriched ultra-lean counter-flow methaneâ€“air non-premixed combustion. International Journal of Hydrogen Energy, 2010, 35, 12491-12501.	3.8	34

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91	A heuristic curved-boundary treatment in lattice Boltzmann method. Europhysics Letters, 2010, 92, 54003.	0.7	4
92	Numerical simulation of fluid flow and heat transfer inside a rotating disk-cylinder configuration by a lattice Boltzmann model. Physical Review E, 2009, 80, 016702.	0.8	17
93	Simulation of buoyancy-driven flows in a vertical cylinder using a simple lattice Boltzmann model. Physical Review E, 2009, 79, 016704.	0.8	51
94	Simple lattice Boltzmann subgrid-scale model for convectional flows with high Rayleigh numbers within an enclosed circular annular cavity. Physical Review E, 2009, 80, 026702.	0.8	24
95	Entropy generation in turbulent natural convection due to internal heat generation. International Journal of Thermal Sciences, 2009, 48, 1978-1987.	2.6	61
96	Simulation of microchannel flow using the lattice Boltzmann method. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4803-4810.	1.2	57
97	A large-eddy-based lattice Boltzmann model for turbulent flow simulation. Applied Mathematics and Computation, 2009, 215, 591-598.	1.4	55
98	A new method for the numerical solution of vorticityâ€“streamfunction formulations. Computer Methods in Applied Mechanics and Engineering, 2008, 198, 367-376.	3.4	37
99	A simple lattice Boltzmann scheme for combustion simulation. Computers and Mathematics With Applications, 2008, 55, 1424-1432.	1.4	38
100	Lattice Boltzmann model for incompressible axisymmetric flows. Physical Review E, 2008, 78, 046703.	0.8	71
101	A NEW NUMERICAL APPROACH FOR FIRE SIMULATION. International Journal of Modern Physics C, 2007, 18, 187-202.	0.8	22
102	A novel coupled lattice Boltzmann model for low Mach number combustion simulation. Applied Mathematics and Computation, 2007, 193, 266-284.	1.4	60
103	Thermoeconomic diagnosis of a coal fired power plant. Energy Conversion and Management, 2007, 48, 405-419.	4.4	36
104	Computation of gasâ€“solid flows by finite difference Boltzmann equation. Applied Mathematics and Computation, 2006, 173, 33-49.	1.4	12
105	Effect of particle inertia on temperature statistics in particle-laden homogeneous isotropic turbulence. Science in China Series D: Earth Sciences, 2006, 49, 210-221.	0.9	6
106	A simple lattice Boltzmann scheme for low Mach number reactive flows. Science in China Series D: Earth Sciences, 2006, 49, 714-726.	0.9	2
107	Particle behavior in homogeneous isotropic turbulence. Acta Mechanica Sinica/Lixue Xuebao, 2005, 21, 112-120.	1.5	12
108	A novel incompressible finite-difference lattice Boltzmann equation for particle-laden flow. Acta Mechanica Sinica/Lixue Xuebao, 2005, 21, 574-581.	1.5	17

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109	Expression of the 60 kDa and 71 kDa heat shock proteins and presence of antibodies against the 71 kDa heat shock protein in pediatric patients with immune thrombocytopenic purpura. BMC Hematology, 2004, 4, 1.	2.6	15
110	Numerical Simulation on Temperature History during Cooling Process of Wire Rod. Advanced Materials Research, 0, 337, 188-191.	0.3	0
111	Numerical Calculation on Steel Coil during Annealing Process. Advanced Materials Research, 0, 402, 472-475.	0.3	1