

Xiaoyi He

List of Publications by Year in descending order

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33
papers

11,239
citations

201674

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395702

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33
docs citations

33
times ranked

5073
citing authors

#	ARTICLE	IF	CITATIONS
1	A Theoretical and Experimental Study of Competition Between Solution and Surface Receptors for Ligand in a Biacore Flow Cell. <i>Bulletin of Mathematical Biology</i> , 2006, 68, 1125-1150.	1.9	11
2	Combustion Simulation Using the Lattice Boltzmann Method. <i>JSME International Journal Series B</i> , 2004, 47, 403-409.	0.3	13
3	Lattice Boltzmann method and gas-kinetic BGK scheme in the low-Mach number viscous flow simulations. <i>Journal of Computational Physics</i> , 2003, 190, 100-117.	3.8	76
4	Hydrodynamics of thermal granular convection. <i>Physical Review E</i> , 2002, 65, 030301.	2.1	39
5	Lattice Boltzmann simulation of chemical dissolution in porous media. <i>Physical Review E</i> , 2002, 65, 036318.	2.1	214
6	Comparison of the Lattice Boltzmann Method and the Artificial Compressibility Method for Navier–Stokes Equations. <i>Journal of Computational Physics</i> , 2002, 179, 439-451.	3.8	91
7	Simulation of Combustion Field with Lattice Boltzmann Method. <i>Journal of Statistical Physics</i> , 2002, 107, 367-383.	1.2	85
8	Surface tension effects on two-dimensional two-phase Kelvin–Helmholtz instabilities. <i>Advances in Water Resources</i> , 2001, 24, 461-478.	3.8	60
9	Interface and surface tension in incompressible lattice Boltzmann multiphase model. <i>Computer Physics Communications</i> , 2000, 129, 121-130.	7.5	79
10	Lattice Boltzmann Simulation of Diffusion-Convection Systems with Surface Chemical Reaction. <i>Molecular Simulation</i> , 2000, 25, 145-156.	2.0	65
11	Derivation of the macroscopic continuum equations for multiphase flow. <i>Physical Review E</i> , 1999, 59, 1253-1255.	2.1	14
12	A Lattice Boltzmann Scheme for Incompressible Multiphase Flow and Its Application in Simulation of Rayleigh–Taylor Instability. <i>Journal of Computational Physics</i> , 1999, 152, 642-663.	3.8	945
13	The influence of transport on the kinetics of binding to surface receptors: application to cells and Biacore. <i>Journal of Molecular Recognition</i> , 1999, 12, 293-299.	2.1	92
14	On the three-dimensional Rayleigh–Taylor instability. <i>Physics of Fluids</i> , 1999, 11, 1143-1152.	4.0	177
15	A Novel Thermal Model for the Lattice Boltzmann Method in Incompressible Limit. <i>Journal of Computational Physics</i> , 1998, 146, 282-300.	3.8	1,194
16	Discrete Boltzmann equation model for nonideal gases. <i>Physical Review E</i> , 1998, 57, R13-R16.	2.1	495
17	Extending the Range of Rate Constants Available from BIACORE: Interpreting Mass Transport-Influenced Binding Data. <i>Biophysical Journal</i> , 1998, 75, 583-594.	0.5	389
18	Discretization of the Velocity Space in the Solution of the Boltzmann Equation. <i>Physical Review Letters</i> , 1998, 80, 65-68.	7.8	351

#	ARTICLE	IF	CITATIONS
19	Error Analysis for the Interpolation-Supplemented Lattice-Boltzmann Equation Scheme. International Journal of Modern Physics C, 1997, 08, 737-745.	1.7	23
20	Impression creep of a viscous fluid. Journal of Applied Physics, 1997, 81, 7751-7756.	2.5	4
21	Lattice Boltzmann method on a curvilinear coordinate system: Vortex shedding behind a circular cylinder. Physical Review E, 1997, 56, 434-440.	2.1	102
22	A priori derivation of the lattice Boltzmann equation. Physical Review E, 1997, 55, R6333-R6336.	2.1	629
23	On the Mechanics of the First Cleavage Division of the Sea Urchin Egg. Experimental Cell Research, 1997, 233, 252-273.	2.6	90
24	On pressure and velocity boundary conditions for the lattice Boltzmann BGK model. Physics of Fluids, 1997, 9, 1591-1598.	4.0	1,843
25	Some progress in the lattice Boltzmann method: Reynolds number enhancement in simulations. Physica A: Statistical Mechanics and Its Applications, 1997, 239, 276-285.	2.6	53
26	Lattice Boltzmann Model for the Incompressible Navier-Stokes Equation. Journal of Statistical Physics, 1997, 88, 927-944.	1.2	953
27	Theory of the lattice Boltzmann method: From the Boltzmann equation to the lattice Boltzmann equation. Physical Review E, 1997, 56, 6811-6817.	2.1	1,328
28	Analytic solutions of simple flows and analysis of nonslip boundary conditions for the lattice Boltzmann BGK model. Journal of Statistical Physics, 1997, 87, 115-136.	1.2	589
29	Lattice Boltzmann Method on Curvilinear Coordinates System: Flow around a Circular Cylinder. Journal of Computational Physics, 1997, 134, 306-315.	3.8	306
30	Pulsatile Flow in the Human Left Coronary Artery Bifurcation: Average Conditions. Journal of Biomechanical Engineering, 1996, 118, 74-82.	1.3	559
31	Numerical Simulation of Oil-Droplet Cleavage by Surfactant. Journal of Biomechanical Engineering, 1996, 118, 201-209.	1.3	9
32	Some Progress in Lattice Boltzmann Method. Part I. Nonuniform Mesh Grids. Journal of Computational Physics, 1996, 129, 357-363.	3.8	310
33	Unsteady Entrance Flow Development in a Straight Tube. Journal of Biomechanical Engineering, 1994, 116, 355-360.	1.3	51