

Chang Shu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

366
papers

13,129
citations

56
h-index

99
g-index

383
ext. papers

14,848
ext. citations

3.1
avg. IF

6.89
L-index

#	Paper	IF	Citations
366	Hydrodynamic performance of an unconstrained flapping swimmer with flexible fin: A numerical study. <i>Physics of Fluids</i> , 2022 , 34, 011901	4.4	4
365	Analyses and reconstruction of the lattice Boltzmann flux solver. <i>Journal of Computational Physics</i> , 2022 , 453, 110923	4.1	3
364	An efficient discrete velocity method with inner iteration for steady flows in all flow regimes. <i>Physics of Fluids</i> , 2022 , 34, 027110	4.4	0
363	An implicit lattice Boltzmann flux solver for simulation of compressible flows. <i>Computers and Mathematics With Applications</i> , 2022 , 107, 82-94	2.7	1
362	Development of explicit formulations of G45-based gas kinetic scheme for simulation of continuum and rarefied flows.. <i>Physical Review E</i> , 2022 , 105, 045302	2.4	0
361	The effects of caudal fin bending stiffness on a self-propelled carangiform swimmer. <i>Physics of Fluids</i> , 2022 , 34, 041901	4.4	1
360	Isotherm-evolution-based interface tracking algorithm for modelling temperature-driven solid-liquid phase-change in multiphase flows. <i>International Journal of Thermal Sciences</i> , 2022 , 177, 107541	4.1	2
359	Variant of gas kinetic flux solver for flows beyond Navier-Stokes level.. <i>Physical Review E</i> , 2021 , 104, 055305	3.05	1
358	Efficient high-order radial basis-function-based differential quadrature-finite volume method for incompressible flows on unstructured grids. <i>Physical Review E</i> , 2021 , 104, 045312	2.4	1
357	Explicit formulations of G13-based gas kinetic flux solver (G13-GKFS) for simulation of continuum and rarefied flows. <i>Physics of Fluids</i> , 2021 , 33, 037133	4.4	6
356	An improved multiphase lattice Boltzmann flux solver for the simulation of incompressible flow with large density ratio and complex interface. <i>Physics of Fluids</i> , 2021 , 33, 033306	4.4	14
355	A high-order implicit least square-based finite difference-finite volume method for incompressible flows on unstructured grids. <i>Physics of Fluids</i> , 2021 , 33, 053601	4.4	1
354	An efficient high-order least square-based finite difference-finite volume method for solution of compressible Navier-Stokes equations on unstructured grids. <i>Computers and Fluids</i> , 2021 , 222, 104926	2.8	2
353	A novel gas kinetic flux solver for simulation of continuum and slip flows. <i>International Journal for Numerical Methods in Fluids</i> , 2021 , 93, 2863-2888	1.9	5
352	Gas kinetic flux solver based high-order finite-volume method for simulation of two-dimensional compressible flows. <i>Physical Review E</i> , 2021 , 104, 015305	2.4	2
351	Deterministic and stochastic bifurcations in two-dimensional electroconvective flows. <i>Journal of Fluid Mechanics</i> , 2021 , 922,	3.7	1
350	Parametric reduced order modeling-based discrete velocity method for simulation of steady rarefied flows. <i>Journal of Computational Physics</i> , 2021 , 430, 110037	4.1	2

349	High-order gas kinetic flux solver for simulation of two dimensional incompressible flows. <i>Physics of Fluids</i> , 2021 , 33, 017107	4.4	5
348	A simplified lattice Boltzmann flux solver for multiphase flows with large density ratio. <i>International Journal for Numerical Methods in Fluids</i> , 2021 , 93, 1895-1912	1.9	3
347	Phase-field-simplified lattice Boltzmann method for modeling solid-liquid phase change. <i>Physical Review E</i> , 2021 , 103, 023308	2.4	1
346	A unified immersed boundary-lattice Boltzmann flux solver (UIB-LBFS) for simulation of flows past porous bodies. <i>Physics of Fluids</i> , 2021 , 33, 083603	4.4	2
345	Ternary phase-field simplified multiphase lattice Boltzmann method and its application to compound droplet dynamics on solid surface in shear flow. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	1
344	Coupling improved discrete velocity method and G13-based gas kinetic flux solver: A hybrid method and its application for non-equilibrium flows. <i>Physics of Fluids</i> , 2021 , 33, 092007	4.4	3
343	Efficient boundary condition-enforced immersed boundary method for incompressible flows with moving boundaries. <i>Journal of Computational Physics</i> , 2021 , 441, 110425	4.1	4
342	Mixed convection between rotating sphere and concentric cubical enclosure. <i>Physics of Fluids</i> , 2021 , 33, 013605	4.4	3
341	Grad's distribution functions-based gas kinetic scheme for simulation of flows beyond Navier-Stokes level. <i>Physics of Fluids</i> , 2021 , 33, 122007	4.4	1
340	Three-dimensional high-order least square-based finite difference-finite volume method on unstructured grids. <i>Physics of Fluids</i> , 2020 , 32, 123604	4.4	6
339	Three-dimensional lattice Boltzmann flux solver for simulation of fluid-solid conjugate heat transfer problems with curved boundary. <i>Physical Review E</i> , 2020 , 101, 053309	2.4	2
338	A diffuse interface IBM for compressible flows with Neumann boundary condition. <i>International Journal of Modern Physics B</i> , 2020 , 34, 2040070	1.1	
337	Reduced order modeling-based discrete unified gas kinetic scheme for rarefied gas flows. <i>Physics of Fluids</i> , 2020 , 32, 067108	4.4	12
336	A hybrid lattice Boltzmann flux solver for integrated hypersonic fluid-thermal-structural analysis. <i>Chinese Journal of Aeronautics</i> , 2020 , 33, 2295-2312	3.7	4
335	Efficient Aerodynamic Shape Optimization with Deep-Learning-Based Geometric Filtering. <i>AIAA Journal</i> , 2020 , 58, 4243-4259	2.1	26
334	On numerical diffusion of simplified lattice Boltzmann method. <i>International Journal for Numerical Methods in Fluids</i> , 2020 , 92, 1198-1211	1.9	5
333	Immersed boundary-simplified thermal lattice Boltzmann method for incompressible thermal flows. <i>Physics of Fluids</i> , 2020 , 32, 013605	4.4	19
332	Double distribution function-based discrete gas kinetic scheme for viscous incompressible and compressible flows. <i>Journal of Computational Physics</i> , 2020 , 412, 109428	4.1	5

331	Oblique drop impact on thin film: Splashing dynamics at moderate impingement angles. <i>Physics of Fluids</i> , 2020 , 32, 033303	4.4	6
330	Fluid-structure interaction simulation based on immersed boundary-lattice Boltzmann flux solver and absolute nodal coordinate formula. <i>Physics of Fluids</i> , 2020 , 32, 047109	4.4	14
329	Lattice Boltzmann and Gas Kinetic Flux Solvers. <i>Advances in Computational Fluid Dynamics</i> , 2020 ,	4	6
328	A three-dimensional gas-kinetic flux solver for simulation of viscous flows with explicit formulations of conservative variables and numerical flux. <i>Advances in Aerodynamics</i> , 2020 , 2,	2.2	1
327	The more actual macroscopic equations recovered from lattice Boltzmann equation and their applications. <i>Journal of Computational Physics</i> , 2020 , 415, 109546	4.1	8
326	A novel solver for simulation of flows from continuum regime to rarefied regime at moderate Knudsen number. <i>Journal of Computational Physics</i> , 2020 , 415, 109548	4.1	7
325	Propagation of weakly stretched premixed spherical spray flames in localized homogeneous and heterogeneous reactants. <i>Physics of Fluids</i> , 2020 , 32, 123302	4.4	3
324	A diffuse-interface immersed boundary method for simulation of compressible viscous flows with stationary and moving boundaries. <i>International Journal for Numerical Methods in Fluids</i> , 2020 , 92, 149-168	1.9	1
323	Simplified lattice Boltzmann method for non-Newtonian power-law fluid flows. <i>International Journal for Numerical Methods in Fluids</i> , 2020 , 92, 38-54	1.9	13
322	A high order least square-based finite difference-finite volume method with lattice Boltzmann flux solver for simulation of incompressible flows on unstructured grids. <i>Journal of Computational Physics</i> , 2020 , 401, 109019	4.1	10
321	Development of multi-component generalized sphere function based gas-kinetic flux solver for simulation of compressible viscous reacting flows. <i>Computers and Fluids</i> , 2020 , 197, 104382	2.8	4
320	A mass-conserved fractional step axisymmetric lattice Boltzmann flux solver for incompressible multiphase flows with large density ratio. <i>Physics of Fluids</i> , 2020 , 32, 103308	4.4	9
319	Propagation of heterogeneous and homogeneous planar flames in fuel droplet mists. <i>International Journal of Multiphase Flow</i> , 2020 , 133, 103452	3.6	2
318	Numerical investigation of adhesion dynamics of a deformable cell pair on an adhesive substrate in shear flow. <i>Physical Review E</i> , 2019 , 100, 033111	2.4	2
317	Development of multicomponent lattice Boltzmann flux solver for simulation of compressible viscous reacting flows. <i>Physical Review E</i> , 2019 , 100, 033315	2.4	3
316	Fast flow field prediction over airfoils using deep learning approach. <i>Physics of Fluids</i> , 2019 , 31, 057103	4.4	85
315	A kinetic theory-based axisymmetric lattice Boltzmann flux solver for isothermal and thermal swirling flows. <i>Journal of Computational Physics</i> , 2019 , 392, 141-160	4.1	4
314	Numerical investigation on performance of three solution reconstructions at cell interface in DVM simulation of flows in all Knudsen number regimes. <i>International Journal for Numerical Methods in Fluids</i> , 2019 , 90, 545-563	1.9	5

313	Simulation of conjugate heat transfer problems by lattice Boltzmann flux solver. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 137, 895-907	4.9	11
312	An improved three-dimensional implicit discrete velocity method on unstructured meshes for all Knudsen number flows. <i>Journal of Computational Physics</i> , 2019 , 396, 738-760	4.1	14
311	An improved discrete gas-kinetic scheme for two-dimensional viscous incompressible and compressible flows. <i>Physics of Fluids</i> , 2019 , 31, 066103	4.4	7
310	A generalized minimal residual method-based immersed boundary-lattice Boltzmann flux solver coupled with finite element method for non-linear fluid-structure interaction problems. <i>Physics of Fluids</i> , 2019 , 31, 103603	4.4	5
309	A simplified axisymmetric lattice Boltzmann method for incompressible swirling and rotating flows. <i>Physics of Fluids</i> , 2019 , 31, 023605	4.4	12
308	High-order least-square-based finite-difference-finite-volume method for simulation of incompressible thermal flows on arbitrary grids. <i>Physical Review E</i> , 2019 , 100, 063308	2.4	7
307	Inverse Design of Airfoil Using a Deep Convolutional Neural Network. <i>AIAA Journal</i> , 2019 , 57, 993-1003	2.1	55
306	Numerical investigation of vortex induced rotation of two square cylinders in tandem arrangement. <i>Ocean Engineering</i> , 2019 , 171, 485-495	3.9	13
305	Third-order discrete unified gas kinetic scheme for continuum and rarefied flows: Low-speed isothermal case. <i>Physical Review E</i> , 2018 , 97, 023306	2.4	12
304	On the re-initialization of fluid interfaces in diffuse interface method. <i>Computers and Fluids</i> , 2018 , 166, 209-217	2.8	9
303	On improvements of simplified and highly stable lattice Boltzmann method: Formulations, boundary treatment, and stability analysis. <i>International Journal for Numerical Methods in Fluids</i> , 2018 , 87, 161-179	1.9	32
302	Development of an efficient gas kinetic scheme for simulation of two-dimensional incompressible thermal flows. <i>Physical Review E</i> , 2018 , 97, 013305	2.4	10
301	Development of axisymmetric lattice Boltzmann flux solver for complex multiphase flows. <i>Modern Physics Letters B</i> , 2018 , 32, 1840005	1.6	1
300	A simple mass-conserved level set method for simulation of multiphase flows. <i>Physics of Fluids</i> , 2018 , 30, 040908	4.4	17
299	An implicit scheme with memory reduction technique for steady state solutions of DVBE in all flow regimes. <i>Physics of Fluids</i> , 2018 , 30, 040901	4.4	16
298	An improved discrete velocity method (DVM) for efficient simulation of flows in all flow regimes. <i>Physics of Fluids</i> , 2018 , 30, 062005	4.4	23
297	High-order simplified thermal lattice Boltzmann method for incompressible thermal flows. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 1-16	4.9	20
296	Immersed boundary-simplified lattice Boltzmann method for incompressible viscous flows. <i>Physics of Fluids</i> , 2018 , 30, 053601	4.4	30

295	An effective lattice Boltzmann flux solver on arbitrarily unstructured meshes. <i>Modern Physics Letters B</i> , 2018 , 32, 1840012	1.6	3
294	Extension of lattice Boltzmann flux solver for simulation of compressible multi-component flows. <i>Modern Physics Letters B</i> , 2018 , 32, 1840001	1.6	2
293	Preface to Special Topic: Papers Selected from the 7th International Symposium on Physics of Fluids, Guiyang, China, 2017. <i>Physics of Fluids</i> , 2018 , 30, 040801	4.4	
292	Circular Function-Based Gas-Kinetic Scheme for Simulation of Viscous Compressible Flows. <i>Lecture Notes in Computer Science</i> , 2018 , 37-47	0.9	
291	The Simplified Lattice Boltzmann Method on Non-Uniform Meshes. <i>Communications in Computational Physics</i> , 2018 , 23,	2.4	13
290	An implicit simplified sphere function-based gas kinetic scheme for simulation of 3D incompressible isothermal flows. <i>Computers and Fluids</i> , 2018 , 160, 204-218	2.8	5
289	Improved fully implicit discrete-velocity method for efficient simulation of flows in all flow regimes. <i>Physical Review E</i> , 2018 , 98,	2.4	11
288	Simplified multiphase lattice Boltzmann method for simulating multiphase flows with large density ratios and complex interfaces. <i>Physical Review E</i> , 2018 , 98,	2.4	36
287	Development of lattice Boltzmann flux solver for simulation of hypersonic flow past flight vehicles. <i>Journal of Physics: Conference Series</i> , 2018 , 1053, 012073	0.3	
286	Highly accurate simplified lattice Boltzmann method. <i>Physics of Fluids</i> , 2018 , 30, 103605	4.4	29
285	Simulation of interfacial waves of two-layer flows through phase field lattice Boltzmann method. <i>Modern Physics Letters B</i> , 2018 , 32, 1840056	1.6	
284	An immersed boundary-gas kinetic flux solver for simulation of incompressible flows. <i>Computers and Fluids</i> , 2017 , 142, 45-56	2.8	9
283	On the immersed boundary-lattice Boltzmann simulations of incompressible flows with freely moving objects. <i>International Journal for Numerical Methods in Fluids</i> , 2017 , 83, 331-350	1.9	6
282	Incorporating an immersed boundary method to study thermal effects of vascular systems during tissue cryo-freezing. <i>Journal of Thermal Biology</i> , 2017 , 64, 92-99	2.9	12
281	Comparative study of discrete velocity method and high-order lattice Boltzmann method for simulation of rarefied flows. <i>Computers and Fluids</i> , 2017 , 146, 125-142	2.8	21
280	A free energy-based surface tension force model for simulation of multiphase flows by level-set method. <i>Journal of Computational Physics</i> , 2017 , 345, 404-426	4.1	18
279	A simplified circular function-based gas kinetic scheme for simulation of incompressible flows. <i>International Journal for Numerical Methods in Fluids</i> , 2017 , 85, 583-598	1.9	15
278	Three-dimensional simplified and unconditionally stable lattice Boltzmann method for incompressible isothermal and thermal flows. <i>Physics of Fluids</i> , 2017 , 29, 053601	4.4	24

277	An immersed boundary-lattice boltzmann flux solver in a moving frame to study three-dimensional freely falling rigid bodies. <i>Journal of Fluids and Structures</i> , 2017 , 68, 444-465	3.1	7
276	A Simplified Lattice Boltzmann Method without Evolution of Distribution Function. <i>Advances in Applied Mathematics and Mechanics</i> , 2017 , 9, 1-22	2.1	45
275	An immersed boundary-simplified sphere function-based gas kinetic scheme for simulation of 3D incompressible flows. <i>Physics of Fluids</i> , 2017 , 29, 083605	4.4	25
274	A simple gas kinetic scheme for simulation of 3D incompressible thermal flows. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2017 , 72, 450-468	1.3	6
273	Comparative study of 1D, 2D and 3D simplified gas kinetic schemes for simulation of inviscid compressible flows. <i>Applied Mathematical Modelling</i> , 2017 , 43, 85-109	4.5	3
272	A simplified thermal lattice Boltzmann method without evolution of distribution functions. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 105, 741-757	4.9	26
271	An adaptive mesh refinement-multiphase lattice Boltzmann flux solver for simulation of complex binary fluid flows. <i>Physics of Fluids</i> , 2017 , 29, 123604	4.4	16
270	A Truly Second-Order and Unconditionally Stable Thermal Lattice Boltzmann Method. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 277	2.6	10
269	Development of a discrete gas-kinetic scheme for simulation of two-dimensional viscous incompressible and compressible flows. <i>Physical Review E</i> , 2016 , 93, 033311	2.4	25
268	EVALUATION OF THE PERFORMANCE OF THE HYBRID LATTICE BOLTZMANN BASED NUMERICAL FLUX. <i>International Journal of Modern Physics Conference Series</i> , 2016 , 42, 1660152	0.7	
267	A boundary condition-enforced immersed boundary method for compressible viscous flows. <i>Computers and Fluids</i> , 2016 , 136, 104-113	2.8	18
266	Numerical simulation of flows from free molecular regime to continuum regime by a DVM with streaming and collision processes. <i>Journal of Computational Physics</i> , 2016 , 306, 291-310	4.1	34
265	A fractional-step lattice Boltzmann flux solver for axisymmetric thermal flows. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2016 , 69, 111-129	1.3	10
264	Boundary condition-enforced immersed boundary-lattice Boltzmann flux solver for thermal flows with Neumann boundary conditions. <i>Journal of Computational Physics</i> , 2016 , 306, 237-252	4.1	25
263	An efficient immersed boundary-lattice Boltzmann flux solver for simulation of 3D incompressible flows with complex geometry. <i>Computers and Fluids</i> , 2016 , 124, 54-66	2.8	18
262	Numerical analysis of a clinically-extracted vascular tissue during cryo-freezing using immersed boundary method. <i>International Journal of Thermal Sciences</i> , 2016 , 110, 109-118	4.1	9
261	Numerical Simulation of Microflows by a DOM With Streaming and Collision Processes 2016 ,		1
260	Numerical study on the freely falling plate: Effects of density ratio and thickness-to-length ratio. <i>Physics of Fluids</i> , 2016 , 28, 103603	4.4	11

259	A Hybrid Lattice Boltzmann Flux Solver for Simulation of Viscous Compressible Flows. <i>Advances in Applied Mathematics and Mechanics</i> , 2016 , 8, 887-910	2.1	26
258	A Switch Function-Based Gas-Kinetic Scheme for Simulation of Inviscid and Viscous Compressible Flows. <i>Advances in Applied Mathematics and Mechanics</i> , 2016 , 8, 703-721	2.1	6
257	Development of discrete gas kinetic scheme for simulation of 3D viscous incompressible and compressible flows. <i>Journal of Computational Physics</i> , 2016 , 319, 129-144	4.1	17
256	A decoupling multiple-relaxation-time lattice Boltzmann flux solver for non-Newtonian power-law fluid flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016 , 235, 20-28	2.7	20
255	Extension of lattice Boltzmann flux solver for simulation of 3D viscous compressible flows. <i>Computers and Mathematics With Applications</i> , 2016 , 71, 2069-2081	2.7	16
254	Explicit formulations of gas-kinetic flux solver for simulation of incompressible and compressible viscous flows. <i>Journal of Computational Physics</i> , 2015 , 300, 492-519	4.1	27
253	A three-dimensional explicit sphere function-based gas-kinetic flux solver for simulation of inviscid compressible flows. <i>Journal of Computational Physics</i> , 2015 , 295, 322-339	4.1	28
252	An improved multiphase lattice Boltzmann flux solver for three-dimensional flows with large density ratio and high Reynolds number. <i>Journal of Computational Physics</i> , 2015 , 302, 41-58	4.1	64
251	An SPH model for multiphase flows with complex interfaces and large density differences. <i>Journal of Computational Physics</i> , 2015 , 283, 169-188	4.1	117
250	Analytical and numerical study of tissue cryofreezing via the immersed boundary method. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 83, 1-10	4.9	28
249	A numerical study on RCCI engine fueled by biodiesel/methanol. <i>Energy Conversion and Management</i> , 2015 , 89, 798-807	10.6	80
248	An adaptive immersed boundary-lattice Boltzmann method for simulating a flapping foil in ground effect. <i>Computers and Fluids</i> , 2015 , 106, 171-184	2.8	22
247	Multiphase lattice Boltzmann flux solver for incompressible multiphase flows with large density ratio. <i>Journal of Computational Physics</i> , 2015 , 280, 404-423	4.1	133
246	Thermoelastic response of thin plate with variable material properties under transient thermal shock. <i>International Journal of Mechanical Sciences</i> , 2015 , 104, 200-206	5.5	28
245	Three-Dimensional Lattice Boltzmann Flux Solver and Its Applications to Incompressible Isothermal and Thermal Flows. <i>Communications in Computational Physics</i> , 2015 , 18, 593-620	2.4	24
244	From Lattice Boltzmann Method to Lattice Boltzmann Flux Solver. <i>Entropy</i> , 2015 , 17, 7713-7735	2.8	28
243	A mass-conserved diffuse interface method and its application for incompressible multiphase flows with large density ratio. <i>Journal of Computational Physics</i> , 2015 , 290, 336-351	4.1	55
242	A coupled immersed boundary-lattice Boltzmann method and its simulation for biomimetic problems. <i>Theoretical and Applied Mechanics Letters</i> , 2015 , 5, 16-19	1.8	7

241	A hybrid phase field multiple relaxation time lattice Boltzmann method for the incompressible multiphase flow with large density contrast. <i>International Journal for Numerical Methods in Fluids</i> , 2015 , 77, 526-543	1.9	38
240	An immersed boundary-lattice Boltzmann flux solver and its applications to fluid-structure interaction problems. <i>Journal of Fluids and Structures</i> , 2015 , 54, 440-465	3.1	74
239	Numerical study on the power extraction performance of a flapping foil with a flexible tail. <i>Physics of Fluids</i> , 2015 , 27, 013602	4.4	41
238	Ground effect on the power extraction performance of a flapping wing biomimetic energy generator. <i>Journal of Fluids and Structures</i> , 2015 , 54, 247-262	3.1	19
237	Investigation of flow characteristics around a stationary circular cylinder with an undulatory plate. <i>European Journal of Mechanics, B/Fluids</i> , 2014 , 48, 27-39	2.4	18
236	Thermal lattice Boltzmann flux solver and its application for simulation of incompressible thermal flows. <i>Computers and Fluids</i> , 2014 , 94, 98-111	2.8	58
235	Numerical investigation of vortex-induced vibration of a circular cylinder with a hinged flat plate. <i>Physics of Fluids</i> , 2014 , 26, 063601	4.4	24
234	A simple distribution function-based gas-kinetic scheme for simulation of viscous incompressible and compressible flows. <i>Journal of Computational Physics</i> , 2014 , 274, 611-632	4.1	40
233	Flow control of a circular cylinder by using an attached flexible filament. <i>Physics of Fluids</i> , 2014 , 26, 103601	4.1	41
232	Numerical study of flow control via the interaction between a circular cylinder and a flexible plate. <i>Journal of Fluids and Structures</i> , 2014 , 49, 594-613	3.1	21
231	A fractional step axisymmetric lattice Boltzmann flux solver for incompressible swirling and rotating flows. <i>Computers and Fluids</i> , 2014 , 96, 204-214	2.8	26
230	Free-energy-based lattice Boltzmann model for the simulation of multiphase flows with density contrast. <i>Physical Review E</i> , 2014 , 89, 033309	2.4	59
229	Fluid Dynamics of Flapping Insect Wing in Ground Effect. <i>Journal of Bionic Engineering</i> , 2014 , 11, 52-60	2.7	23
228	Development of LBGK and incompressible LBGK-based lattice Boltzmann flux solvers for simulation of incompressible flows. <i>International Journal for Numerical Methods in Fluids</i> , 2014 , 75, 344-364	1.9	29
227	An efficient boundary condition-implemented immersed boundary-lattice Boltzmann method for simulation of 3D incompressible viscous flows. <i>Computers and Fluids</i> , 2014 , 100, 165-175	2.8	10
226	Development of Lattice Boltzmann Flux Solver for Simulation of Incompressible Flows. <i>Advances in Applied Mathematics and Mechanics</i> , 2014 , 6, 436-460	2.1	83
225	Pitching-motion-activated flapping foil near solid walls for power extraction: A numerical investigation. <i>Physics of Fluids</i> , 2014 , 26, 083601	4.4	36
224	A Boundary Condition-Implemented Immersed Boundary-Lattice Boltzmann Method and Its Application for Simulation of Flows Around a Circular Cylinder. <i>Advances in Applied Mathematics and Mechanics</i> , 2014 , 6, 811-829	2.1	5

223	A stencil adaptive phase-field lattice Boltzmann method for two dimensional incompressible multiphase flows. <i>International Journal for Numerical Methods in Fluids</i> , 2013 , 72, 671-696	1.9	2
222	A moment conservation-based non-free parameter compressible lattice Boltzmann model and its application for flux evaluation at cell interface. <i>Computers and Fluids</i> , 2013 , 79, 190-199	2.8	34
221	Circular function-based gas-kinetic scheme for simulation of inviscid compressible flows. <i>Journal of Computational Physics</i> , 2013 , 255, 540-557	4.1	39
220	Development of an immersed boundary-phase field-lattice Boltzmann method for Neumann boundary condition to study contact line dynamics. <i>Journal of Computational Physics</i> , 2013 , 234, 8-32	4.1	20
219	An efficient immersed boundary method for thermal flow problems with heat flux boundary conditions. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 64, 694-705	4.9	50
218	Novel immersed boundary methods for thermal flow problems. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2013 , 23, 124-142	4.5	19
217	Hybrid multiple-relaxation-time lattice-Boltzmann finite-difference method for axisymmetric multiphase flows. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013 , 46, 055501	2	27
216	Lattice Boltzmann Method and Its Applications in Engineering. <i>Advances in Computational Fluid Dynamics</i> , 2013 ,	4	310
215	Simulation of three-dimensional flows over moving objects by an improved immersed boundary lattice Boltzmann method. <i>International Journal for Numerical Methods in Fluids</i> , 2012 , 68, 977-1004	1.9	30
214	Extension of local domain-free discretization method to simulate 3D flows with complex moving boundaries. <i>Computers and Fluids</i> , 2012 , 64, 98-107	2.8	7
213	Simulation of self-propelled anguilliform swimming by local domain-free discretization method. <i>International Journal for Numerical Methods in Fluids</i> , 2012 , 69, 1891-1906	1.9	13
212	A stream function-vorticity formulation-based immersed boundary method and its applications. <i>International Journal for Numerical Methods in Fluids</i> , 2012 , 70, 627-645	1.9	10
211	Boundary condition-enforced immersed boundary method for thermal flow problems with Dirichlet temperature condition and its applications. <i>Computers and Fluids</i> , 2012 , 57, 40-51	2.8	70
210	Simulation of Thermal Flow Problems via a Hybrid Immersed Boundary-Lattice Boltzmann Method. <i>Journal of Applied Mathematics</i> , 2012 , 2012, 1-11	1.1	2
209	A HYBRID PHASE-FIELD BASED LATTICE BOLTZMANN METHOD FOR CONTACT LINE DYNAMICS. <i>International Journal of Modern Physics Conference Series</i> , 2012 , 19, 50-61	0.7	0
208	A Phase-Field-Based Hybrid Lattice-Boltzmann Finite-Volume Method and Its Application to Simulate Droplet Motion under Electrowetting Control. <i>Journal of Adhesion Science and Technology</i> , 2012 , 26, 1825-1851	2	19
207	INTERACTION OF SHOCK WAVE WITH MULTI-FLUIDS INTERFACE USING QUADRILATERAL-BASED ADAPTIVE MESH. <i>International Journal of Modern Physics C</i> , 2012 , 23, 1250033	1.1	1
206	DEVELOPING LBM-BASED FLUX SOLVER AND ITS APPLICATIONS IN MULTI-DIMENSION SIMULATIONS. <i>International Journal of Modern Physics Conference Series</i> , 2012 , 19, 90-99	0.7	0

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