

# Lu Xiyun

## List of Publications by Citations

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158  
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3,116  
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31  
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49  
g-index

178  
ext. papers

3,722  
ext. citations

3.3  
avg, IF

5.77  
L-index

#	Paper	IF	Citations
158	An efficient immersed boundary-lattice Boltzmann method for the hydrodynamic interaction of elastic filaments. <i>Journal of Computational Physics</i> , <b>2011</b> , 230, 7266-7283	4.1	186
157	Integral force acting on a body due to local flow structures. <i>Journal of Fluid Mechanics</i> , <b>2007</b> , 576, 265-286	3.7	119
156	Characteristics of flow over traveling wavy foils in a side-by-side arrangement. <i>Physics of Fluids</i> , <b>2007</b> , 19, 057107	4.4	110
155	Relative permeabilities and coupling effects in steady-state gas-liquid flow in porous media: A lattice Boltzmann study. <i>Physics of Fluids</i> , <b>2009</b> , 21, 092104	4.4	102
154	Locomotion of a passively flapping flat plate. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 659, 43-68	3.7	89
153	Rotation of spheroidal particles in Couette flows. <i>Journal of Fluid Mechanics</i> , <b>2012</b> , 692, 369-394	3.7	84
152	Shan-and-Chen-type multiphase lattice Boltzmann study of viscous coupling effects for two-phase flow in porous media. <i>International Journal for Numerical Methods in Fluids</i> , <b>2009</b> , 61, 341-354	1.9	84
151	Large-eddy simulation of the compressible flow past a wavy cylinder. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 665, 238-273	3.7	84
150	Insect normal hovering flight in ground effect. <i>Physics of Fluids</i> , <b>2008</b> , 20, 087101	4.4	80
149	Locomotion of a flapping flexible plate. <i>Physics of Fluids</i> , <b>2013</b> , 25, 121901	4.4	73
148	Numerical investigation of a jet from a blunt body opposing a supersonic flow. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 684, 85-110	3.7	68
147	Coupling modes of three filaments in side-by-side arrangement. <i>Physics of Fluids</i> , <b>2011</b> , 23, 111903	4.4	65
146	Numerical investigation of the compressible flow past an aerofoil. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 643, 97-126	3.7	65
145	Numerical investigation of the non-Newtonian blood flow in a bifurcation model with a non-planar branch. <i>Journal of Biomechanics</i> , <b>2004</b> , 37, 1899-911	2.9	58
144	An improved hybrid Cartesian/immersed boundary method for fluid-solid flows. <i>International Journal for Numerical Methods in Fluids</i> , <b>2007</b> , 55, 1189-1211	1.9	56
143	Numerical analysis on the propulsive performance and vortex shedding of fish-like travelling wavy plate. <i>International Journal for Numerical Methods in Fluids</i> , <b>2005</b> , 48, 1351-1373	1.9	55
142	Flow topology in compressible turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2012</b> , 703, 255-278	3.7	53

141	Sedimentation of an ellipsoidal particle in narrow tubes. <i>Physics of Fluids</i> , <b>2014</b> , 26, 053302	4.4	51
140	Force and power of flapping plates in a fluid. <i>Journal of Fluid Mechanics</i> , <b>2012</b> , 712, 598-613	3.7	49
139	Simulation of a pulsatile non-Newtonian flow past a stenosed 2D artery with atherosclerosis. <i>Computers in Biology and Medicine</i> , <b>2013</b> , 43, 1098-113	7	47
138	Dynamics of an inverted flexible plate in a uniform flow. <i>Physics of Fluids</i> , <b>2015</b> , 27, 073601	4.4	45
137	ON SIMULATIONS OF HIGH-DENSITY RATIO FLOWS USING COLOR-GRADIENT MULTIPHASE LATTICE BOLTZMANN MODELS. <i>International Journal of Modern Physics C</i> , <b>2013</b> , 24, 1350021	1.1	44
136	Dynamics of drop impact onto a solid sphere: spreading and retraction. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 824,	3.7	37
135	Measurement of a Richtmyer-Meshkov Instability at an Air-SF <sub>6</sub> Interface in a Semiannular Shock Tube. <i>Physical Review Letters</i> , <b>2017</b> , 119, 014501	7.4	37
134	Coupling performance of tandem flexible inverted flags in a uniform flow. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 837, 461-476	3.7	35
133	Large eddy simulation of turbulent channel flow with mass transfer at high-Schmidt numbers. <i>International Journal of Heat and Mass Transfer</i> , <b>2003</b> , 46, 1529-1539	4.9	33
132	On the interaction of a planar shock with a three-dimensional light gas cylinder. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 828, 289-317	3.7	32
131	Dynamics of fluid flow over a circular flexible plate. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 759, 56-72	3.7	32
130	Propulsive performance of a fish-like travelling wavy wall. <i>Acta Mechanica</i> , <b>2005</b> , 175, 197-215	2.1	32
129	On the contact-line pinning in cavity formation during solid-liquid impact. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 783, 504-525	3.7	31
128	Large-Eddy and Detached-Eddy Simulations of the Separated Flow Around a Circular Cylinder. <i>Journal of Hydrodynamics</i> , <b>2007</b> , 19, 559-563	3.3	31
127	Large eddy simulation of a thermally stratified turbulent channel flow with temperature oscillation on the wall. <i>International Journal of Heat and Mass Transfer</i> , <b>2004</b> , 47, 2109-2122	4.9	30
126	Collective locomotion of two closely spaced self-propelled flapping plates. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 849, 1068-1095	3.7	28
125	Large-eddy simulation of a pulsed jet into a supersonic crossflow. <i>Computers and Fluids</i> , <b>2016</b> , 140, 320-338		27
124	An investigation of turbulent open channel flow with heat transfer by large eddy simulation. <i>Computers and Fluids</i> , <b>2005</b> , 34, 23-47	2.8	27

- 123 Effects of the injector geometry on a sonic jet into a supersonic crossflow. *Science China: Physics, Mechanics and Astronomy*, **2013**, 56, 366-377 3.6 26
- 122 Film deposition and transition on a partially wetting plate in dip coating. *Journal of Fluid Mechanics*, **2016**, 791, 358-383 3.7 26
- 121 On the maximal spreading of impacting compound drops. *Journal of Fluid Mechanics*, **2018**, 854, 3.7 26
- 120 Topological evolution in compressible turbulent boundary layers. *Journal of Fluid Mechanics*, **2013**, 733, 414-438 3.7 25
- 119 An investigation of turbulent oscillatory heat transfer in channel flows by large eddy simulation. *International Journal of Heat and Mass Transfer*, **2004**, 47, 2161-2172 4.9 25
- 118 Hydrodynamic schooling of multiple self-propelled flapping plates. *Journal of Fluid Mechanics*, **2018**, 853, 587-600 3.7 25
- 117 Propulsive performance and vortex shedding of a foil in flapping flight. *Acta Mechanica*, **2003**, 165, 189-206 23
- 116 Free locomotion of a flexible plate near the ground. *Physics of Fluids*, **2017**, 29, 041903 4.4 20
- 115 Numerical Studies on Locomotion Performance of Fishlike Tail Fins. *Journal of Hydrodynamics*, **2012**, 24, 488-495 3.3 20
- 114 Effect of wall temperature on hypersonic turbulent boundary layer. *Journal of Turbulence*, **2013**, 14, 37-57.1 20
- 113 Pinning-Depinning Mechanism of the Contact Line during Evaporation of Nanodroplets on Heated Heterogeneous Surfaces: A Molecular Dynamics Simulation. *Langmuir*, **2019**, 35, 6356-6366 4 19
- 112 Direct numerical simulation of spanwise rotating turbulent channel flow with heat transfer. *International Journal for Numerical Methods in Fluids*, **2007**, 53, 1689-1706 1.9 19
- 111 Sedimentation of an oblate ellipsoid in narrow tubes. *Physical Review E*, **2015**, 92, 063009 2.4 17
- 110 Effect of surfactants on the inertialess instability of a two-layer film flow. *Journal of Fluid Mechanics*, **2007**, 591, 495-507 3.7 17
- 109 Numerical simulation of drop Marangoni migration under microgravity. *Acta Astronautica*, **2004**, 54, 325-335 17
- 108 Large eddy simulation of turbulent concentric annular channel flows. *International Journal for Numerical Methods in Fluids*, **2004**, 45, 1317-1338 1.9 17
- 107 A deformable plate interacting with a non-Newtonian fluid in three dimensions. *Physics of Fluids*, **2017**, 29, 083101 4.4 16
- 106 Shear viscosity of dilute suspensions of ellipsoidal particles with a lattice Boltzmann method. *Physical Review E*, **2012**, 86, 046305 2.4 16

105	An ellipsoidal particle in tube Poiseuille flow. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 822, 664-688	3.7	15
104	Direct numerical simulation of Taylor-Couette flow subjected to a radial temperature gradient. <i>Physics of Fluids</i> , <b>2015</b> , 27, 125101	4.4	15
103	Numerical Analysis of the Ground Effect on Insect Hovering. <i>Journal of Hydrodynamics</i> , <b>2008</b> , 20, 17-22	3.3	15
102	Self-propulsion of a flapping flexible plate near the ground. <i>Physical Review E</i> , <b>2016</b> , 94, 033113	2.4	15
101	Collective locomotion of two self-propelled flapping plates with different propulsive capacities. <i>Physics of Fluids</i> , <b>2018</b> , 30, 111901	4.4	15
100	Entrapping an impacting particle at a liquid-gas interface. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 841, 1073-1084	3.7	14
99	LATTICE BOLTZMANN STUDY OF ELECTROHYDRODYNAMIC DROP DEFORMATION WITH LARGE DENSITY RATIO. <i>International Journal of Modern Physics C</i> , <b>2011</b> , 22, 729-744	1.1	14
98	Effect of Mach number on transonic flow past a circular cylinder. <i>Science Bulletin</i> , <b>2009</b> , 54, 1886-1893	10.6	14
97	Direct numerical simulation of wall-normal rotating turbulent channel flow with heat transfer. <i>International Journal of Heat and Mass Transfer</i> , <b>2006</b> , 49, 1162-1175	4.9	14
96	Refraction of cylindrical converging shock wave at an air/helium gaseous interface. <i>Physics of Fluids</i> , <b>2017</b> , 29, 016102	4.4	13
95	Effect of trailing-edge shape on the self-propulsive performance of heaving flexible plates. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 887,	3.7	13
94	Self-propulsion of a three-dimensional flapping flexible plate. <i>Journal of Hydrodynamics</i> , <b>2016</b> , 28, 1-9	3.3	13
93	A numerical investigation of turbulent flows in a spanwise rotating channel. <i>Computers and Fluids</i> , <b>2007</b> , 36, 282-298	2.8	13
92	Effect of surfactants on the long-wave stability of oscillatory film flow. <i>Journal of Fluid Mechanics</i> , <b>2006</b> , 562, 345	3.7	13
91	Numerical Study of the Flow Behind a Rotary Oscillating Circular Cylinder. <i>International Journal of Computational Fluid Dynamics</i> , <b>2002</b> , 16, 65-82	1.2	13
90	Two tandem flexible loops in a viscous flow. <i>Physics of Fluids</i> , <b>2017</b> , 29, 021902	4.4	12
89	Turbulent drag reduction in plane Couette flow with polymer additives: a direct numerical simulation study. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 846, 482-507	3.7	12
88	Effects of injection temperature on the jet evolution under supercritical conditions. <i>Science Bulletin</i> , <b>2009</b> , 54, 4197-4204		12

87	A Consistent Characteristic Boundary Condition for General Fluid Mixture and Its Implementation in a Preconditioning Scheme. <i>Advances in Applied Mathematics and Mechanics</i> , <b>2012</b> , 4, 72-92	2.1	12
86	Mechanism of the long-wave inertialess instability of a two-layer film flow. <i>Journal of Fluid Mechanics</i> , <b>2008</b> , 608, 379-391	3.7	12
85	Ratchet mechanism of drops climbing a vibrated oblique plate. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 835,	3.7	12
84	Manipulation of three-dimensional Richtmyer-Meshkov instability by initial interfacial principal curvatures. <i>Physics of Fluids</i> , <b>2017</b> , 29, 032106	4.4	11
83	Optimal chordwise stiffness distribution for self-propelled heaving flexible plates. <i>Physics of Fluids</i> , <b>2020</b> , 32, 111905	4.4	11
82	Collective locomotion of two uncoordinated undulatory self-propelled foils. <i>Physics of Fluids</i> , <b>2021</b> , 33, 011904	4.4	11
81	The correspondence between drag enhancement and vortical structures in turbulent Taylor-Couette flows with polymer additives: a study of curvature dependence. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 881, 602-616	3.7	10
80	Characteristics of unsteady type IV shock/shock interaction. <i>Shock Waves</i> , <b>2012</b> , 22, 225-235	1.6	10
79	An investigation of pulsating turbulent open channel flow by large eddy simulation. <i>Computers and Fluids</i> , <b>2006</b> , 35, 74-102	2.8	10
78	Instability of an oscillatory fluid layer with insoluble surfactants. <i>Journal of Fluid Mechanics</i> , <b>2008</b> , 595, 461-490	3.7	9
77	Numerical investigation of the bevelled effects on shock structure and screech noise in planar supersonic jets. <i>Physics of Fluids</i> , <b>2020</b> , 32, 086103	4.4	9
76	Dewetting films with inclined contact lines. <i>Physical Review E</i> , <b>2015</b> , 91, 023008	2.4	8
75	A specially curved wedge for eliminating wedge angle effect in unsteady shock reflection. <i>Physics of Fluids</i> , <b>2017</b> , 29, 086103	4.4	8
74	Viscous flow past a collapsible channel as a model for self-excited oscillation of blood vessels. <i>Journal of Biomechanics</i> , <b>2015</b> , 48, 1922-9	2.9	8
73	Dynamic performance and wake structure of flapping plates with different shapes. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2014</b> , 30, 800-808	2	8
72	Direct Numerical Simulations of Turbulent Channel Flows with Consideration of the Buoyancy Effect of the Bubble Phase. <i>Journal of Hydrodynamics</i> , <b>2011</b> , 23, 282-288	3.3	8
71	An evaluation of a 3D free-energy-based lattice Boltzmann model for multiphase flows with large density ratio. <i>International Journal for Numerical Methods in Fluids</i> , <b>2009</b> , 63, n/a-n/a	1.9	8
70	Computational Study of Drag Reduction at Various Freestream Flows Using a Counterflow Jet from a Hemispherical Cylinder. <i>Engineering Applications of Computational Fluid Mechanics</i> , <b>2010</b> , 4, 150-163	4.5	8

69	Numerical study of buoyancy- and thermocapillary-driven flows in a cavity. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>1998</b> , 14, 130-138	2	8
68	A dynamic subgrid-scale model for the large eddy simulation of stratified flow. <i>Science in China Series A: Mathematics</i> , <b>2000</b> , 43, 391-399		8
67	Rheology of capsule suspensions in plane Poiseuille flows. <i>Physics of Fluids</i> , <b>2021</b> , 33, 013302	4.4	8
66	Topological evolution near the turbulent/non-turbulent interface in turbulent mixing layer. <i>Journal of Turbulence</i> , <b>2019</b> , 20, 300-321	2.1	7
65	On the wetting dynamics in a Couette flow. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 724,	3.7	7
64	Hydrodynamic analysis of C-start in Crucian Carp. <i>Journal of Bionic Engineering</i> , <b>2004</b> , 1, 102-107	2.7	7
63	Numerical analysis of the rotating viscous flow approaching a solid sphere. <i>International Journal for Numerical Methods in Fluids</i> , <b>2004</b> , 44, 905-925	1.9	7
62	Noise control of subsonic flow past open cavities based on porous floors. <i>Physics of Fluids</i> , <b>2020</b> , 32, 125101	4.1	7
61	Direct numerical simulation of inertio-elastic turbulent Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 926,	3.7	7
60	Propulsive performance of a passively flapping plate in a uniform flow. <i>Journal of Hydrodynamics</i> , <b>2015</b> , 27, 496-501	3.3	6
59	Dynamics and Instability of a Vortex Ring Impinging on a Wall. <i>Communications in Computational Physics</i> , <b>2015</b> , 18, 1122-1146	2.4	6
58	Analysis of Hydrodynamics for Two-Dimensional Flow Around Waving Plates. <i>Journal of Hydrodynamics</i> , <b>2007</b> , 19, 18-22	3.3	6
57	Kinetic energy and enstrophy transfer in compressible Rayleigh-Taylor turbulence. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 904,	3.7	6
56	Analytical model of nonlinear evolution of single-mode Rayleigh-Taylor instability in cylindrical geometry. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 900,	3.7	6
55	Forced dewetting in a capillary tube. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 859, 308-320	3.7	6
54	Subgrid effects on the filtered velocity gradient dynamics in compressible turbulence. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 892,	3.7	5
53	Reflection of cylindrical converging shock wave over a plane wedge. <i>Physics of Fluids</i> , <b>2016</b> , 28, 086101	4.4	5
52	Length effects of a built-in flapping flat plate on the flow over a traveling wavy foil. <i>Physical Review E</i> , <b>2014</b> , 89, 063019	2.4	5

51	A numerical study of fluid injection and mixing under near-critical conditions. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2012</b> , 28, 559-571	2	5
50	LARGE-EDDY SIMULATION OF OPPOSING-JET-PERTURBED SUPERSONIC FLOWS PAST A HEMISPHERICAL NOSE. <i>Modern Physics Letters B</i> , <b>2010</b> , 24, 1287-1290	1.6	5
49	SIMULATION OF GAS FLOW IN MICROTUBES BY LATTICE BOLTZMANN METHOD. <i>International Journal of Modern Physics C</i> , <b>2009</b> , 20, 1145-1153	1.1	5
48	Numerical Simulation of an Oscillating Flow Past a Circular Cylinder in the Vicinity of a Plane Wall. <i>Journal of Hydrodynamics</i> , <b>2008</b> , 20, 547-552	3.3	5
47	Effects of wall suction/injection on the linear stability of flat Stokes layers. <i>Journal of Fluid Mechanics</i> , <b>2006</b> , 551, 303	3.7	5
46	Large eddy simulation of turbulent open channel flow with heat transfer at high Prandtl numbers. <i>Acta Mechanica</i> , <b>2004</b> , 170, 227	2.1	5
45	A reverse transition route from inertial to elasticity-dominated turbulence in viscoelastic Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 927,	3.7	5
44	Self-propelled plate in wakes behind tandem cylinders. <i>Physical Review E</i> , <b>2019</b> , 100, 033114	2.4	4
43	Numerical study of droplet impact on a flexible substrate. <i>Physical Review E</i> , <b>2020</b> , 101, 053107	2.4	4
42	Large-eddy simulation of sonic coaxial jets with different total pressure ratios of the inner to outer nozzle. <i>Computers and Fluids</i> , <b>2018</b> , 171, 122-134	2.8	4
41	A Comparison Study of Numerical Methods for Compressible Two-Phase Flows. <i>Advances in Applied Mathematics and Mechanics</i> , <b>2017</b> , 9, 1111-1132	2.1	4
40	Direct numerical simulation of turbulent flows in a wall-normal rotating channel. <i>Journal of Turbulence</i> , <b>2005</b> , 6, N34	2.1	4
39	Numerical study of natural convection flow in a vertical slot. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>1999</b> , 15, 215-224	2	4
38	Hydrodynamic force induced by vortex-body interactions in orderly formations of flapping tandem flexible plates. <i>Physics of Fluids</i> , <b>2022</b> , 34, 021901	4.4	4
37	Hydrodynamic benefits of intermittent locomotion of a self-propelled flapping plate. <i>Physical Review E</i> , <b>2020</b> , 102, 053106	2.4	4
36	Unsteady shock interactions on V-shaped blunt leading edges. <i>Physics of Fluids</i> , <b>2018</b> , 30, 116104	4.4	4
35	The Motion of a Neutrally Buoyant Ellipsoid Inside Square Tube Flows. <i>Advances in Applied Mathematics and Mechanics</i> , <b>2017</b> , 9, 233-249	2.1	3
34	Studies of hydrodynamics in fishlike swimming propulsion. <i>Journal of Hydrodynamics</i> , <b>2010</b> , 22, 17-22	3.3	3



33	Numerical simulation of drop migration in channell flow under zero-gravity. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2004</b> , 20, 199-205	2	3
32	Numerical study of an oscillatory turbulent flow over a flat plate. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>1999</b> , 15, 8-14	2	3
31	Active external control effect on the collective locomotion of two tandem self-propelled flapping plates. <i>Physics of Fluids</i> , <b>2021</b> , 33, 101901	4.4	3
30	Studies of Hydrodynamics in Fishlike Swimming Propulsion <b>2008</b> , 143-154		3
29	Polymer-induced flow relaminarization and drag enhancement in spanwise-rotating plane Couette flow. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 905,	3.7	3
28	Molecular Dynamics Study of Binary Nanodroplet Evaporation on a Heated Homogeneous Substrate. <i>Langmuir</i> , <b>2020</b> , 36, 3439-3451	4	2
27	Lattice Boltzmann Study of a Vortex Ring Impacting Spheroidal Particles. <i>Advances in Applied Mathematics and Mechanics</i> , <b>2014</b> , 6, 461-477	2.1	2
26	Interaction between strain and vorticity in compressible turbulent boundary layer. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2014</b> , 57, 2316-2329	3.6	2
25	Turbulent Open Channel Flow Subjected to the Control of a Spanwise Traveling Wave. <i>Journal of Hydrodynamics</i> , <b>2009</b> , 21, 65-70	3.3	2
24	Discontinuity-capturing finite element computation of unsteady flow with adaptive unstructured mesh. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2004</b> , 20, 347-353	2	2
23	Vortex control by the spanwise suction flow on the upper surface of delta wing. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>1999</b> , 15, 116-125	2	2
22	Non-normal effect of the velocity gradient tensor and the relevant subgrid-scale model in compressible turbulent boundary layer. <i>Physics of Fluids</i> , <b>2021</b> , 33, 025103	4.4	2
21	Interplay of chordwise stiffness and shape on performance of self-propelled flexible flapping plate. <i>Physics of Fluids</i> , <b>2021</b> , 33, 091904	4.4	2
20	Deep-reinforcement-learning-based self-organization of freely undulatory swimmers.. <i>Physical Review E</i> , <b>2022</b> , 105, 045105	2.4	2
19	Numerical Investigation of the Dynamics of a Flexible Filament in the Wake of Cylinder. <i>Advances in Applied Mathematics and Mechanics</i> , <b>2014</b> , 6, 478-493	2.1	1
18	Axisymmetric high-density ratio two-phase LBMs (extension of the HCZ model) <b>2015</b> , 334-358		1
17	A NUMERICAL STUDY OF FLUID INJECTION AND MIXING UNDER NEAR-CRITICAL CONDITIONS. <i>International Journal of Modern Physics Conference Series</i> , <b>2012</b> , 19, 39-49	0.7	1
16	Instability of the shear layer in the near wake of a circular cylinder. <i>Progress in Natural Science: Materials International</i> , <b>2003</b> , 13, 259-265	3.6	1

15	Hydrodynamic analysis of C-start in Crucian Carp. <i>Journal of Bionic Engineering</i> , <b>2004</b> , 1, 102-107	2.7	1
14	An investigation of thermally stratified turbulent channel flow with temperature oscillation on the bottom wall by large eddy simulation. <i>Heat and Mass Transfer</i> , <b>2004</b> , 40, 919-928	2.2	1
13	Intermittent swimming of two self-propelled flapping plates in tandem configuration. <i>Physics of Fluids</i> , <b>2022</b> , 34, 011905	4.4	1
12	Free-energy-based multiphase Lattice Boltzmann model	136-166	1
11	Large Eddy Simulation of a Vortex Ring Impacting a Bump. <i>Advances in Applied Mathematics and Mechanics</i> , <b>2014</b> , 6, 261-280	2.1	0
10	Rothman-Keller multiphase Lattice Boltzmann model	2015, 94-135	0
9	Scaling law of mixing layer in cylindrical Rayleigh-Taylor turbulence.. <i>Physical Review E</i> , <b>2021</b> , 104, 055104	4.4	0
8	Single-component multiphase Shan-Chen-type model	18-70	0
7	Numerical Investigation of the Coherent Structures and Sound Properties in Sonic Coaxial Jets. <i>Advances in Applied Mathematics and Mechanics</i> , <b>2017</b> , 9, 554-573	2.1	
6	He-Chen-Zhang multiphase Lattice Boltzmann model	2015, 196-252	
5	Large-eddy simulation of stratified channel flow. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>1997</b> , 13, 331-338	2	
4	Shan and Chen-type multi-component multiphase models	71-93	
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2	Extensions of the HCZ model for high-density ratio two-phase flows	292-333	
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