

Yonghao Zhang

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145
papers

3,776
citations

36
h-index

55
g-index

162
ext. papers

4,346
ext. citations

3.8
avg. IF

6.01
L-index

#	Paper	IF	Citations
145	Microfluidic DNA amplification--a review. <i>Analytica Chimica Acta</i> , 2009 , 638, 115-25	6.6	248
144	Droplet formation in a T-shaped microfluidic junction. <i>Journal of Applied Physics</i> , 2009 , 106, 034906	2.5	129
143	Lattice Boltzmann simulation of rarefied gas flows in microchannels. <i>Physical Review E</i> , 2005 , 71, 047702	2.4	128
142	Droplet formation in microfluidic cross-junctions. <i>Physics of Fluids</i> , 2011 , 23, 082101	4.4	124
141	Capturing Knudsen layer phenomena using a lattice Boltzmann model. <i>Physical Review E</i> , 2006 , 74, 046704	4.4	115
140	A review on continuous-flow microfluidic PCR in droplets: Advances, challenges and future. <i>Analytica Chimica Acta</i> , 2016 , 914, 7-16	6.6	98
139	Deterministic numerical solutions of the Boltzmann equation using the fast spectral method. <i>Journal of Computational Physics</i> , 2013 , 250, 27-52	4.1	89
138	Lattice Boltzmann simulation of immiscible fluid displacement in porous media: Homogeneous versus heterogeneous pore network. <i>Physics of Fluids</i> , 2015 , 27, 052103	4.4	86
137	Phase-field modeling droplet dynamics with soluble surfactants. <i>Journal of Computational Physics</i> , 2010 , 229, 9166-9187	4.1	85
136	Solving the Boltzmann equation deterministically by the fast spectral method: application to gas microflows. <i>Journal of Fluid Mechanics</i> , 2014 , 746, 53-84	3.7	75
135	Lattice Boltzmann phase-field modeling of thermocapillary flows in a confined microchannel. <i>Journal of Computational Physics</i> , 2014 , 256, 334-356	4.1	73
134	Phase-field-based lattice Boltzmann finite-difference model for simulating thermocapillary flows. <i>Physical Review E</i> , 2013 , 87, 013010	2.4	73
133	Numerical and experimental study of a droplet-based PCR chip. <i>Microfluidics and Nanofluidics</i> , 2007 , 3, 611-621	2.8	70
132	Accuracy analysis of high-order lattice Boltzmann models for rarefied gas flows. <i>Journal of Computational Physics</i> , 2011 , 230, 835-849	4.1	66
131	Modeling and simulation of thermocapillary flows using lattice Boltzmann method. <i>Journal of Computational Physics</i> , 2012 , 231, 4433-4453	4.1	64
130	Lattice ellipsoidal statistical BGK model for thermal non-equilibrium flows. <i>Journal of Fluid Mechanics</i> , 2013 , 718, 347-370	3.7	62
129	Lattice Boltzmann modeling of contact angle and its hysteresis in two-phase flow with large viscosity difference. <i>Physical Review E</i> , 2015 , 92, 033306	2.4	58

128	Modeling of Knudsen Layer Effects in Micro/Nanoscale Gas Flows. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2011 , 133,	2.1	56
127	Gas Flow in Microchannels [A Lattice Boltzmann Method Approach. <i>Journal of Statistical Physics</i> , 2005 , 121, 257-267	1.5	55
126	Numerical study on the dynamics of a two-raft wave energy conversion device. <i>Journal of Fluids and Structures</i> , 2015 , 58, 271-290	3.1	54
125	On the apparent permeability of porous media in rarefied gas flows. <i>Journal of Fluid Mechanics</i> , 2017 , 822, 398-417	3.7	53
124	Improved electrochemical oxidation of tricyclazole from aqueous solution by enhancing mass transfer in a tubular porous electrode electrocatalytic reactor. <i>Electrochimica Acta</i> , 2016 , 189, 1-8	6.7	53
123	A comparative study of discrete velocity methods for low-speed rarefied gas flows. <i>Computers and Fluids</i> , 2018 , 161, 33-46	2.8	52
122	Lattice Boltzmann modelling Knudsen layer effect in non-equilibrium flows. <i>Europhysics Letters</i> , 2008 , 83, 40008	1.6	51
121	A hybrid lattice Boltzmann and finite difference method for droplet dynamics with insoluble surfactants. <i>Journal of Fluid Mechanics</i> , 2018 , 837, 381-412	3.7	50
120	Lattice Boltzmann models for nonequilibrium gas flows. <i>Physical Review E</i> , 2008 , 77, 046701	2.4	47
119	A kinetic model of the Boltzmann equation for non-vibrating polyatomic gases. <i>Journal of Fluid Mechanics</i> , 2015 , 763, 24-50	3.7	46
118	Numerical study of three-dimensional natural convection in a cubical cavity at high Rayleigh numbers. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 113, 217-228	4.9	45
117	Vortex solitons in defocusing media with spatially inhomogeneous nonlinearity. <i>Physical Review E</i> , 2012 , 85, 056603	2.4	45
116	Gauss-Hermite quadratures and accuracy of lattice Boltzmann models for nonequilibrium gas flows. <i>Physical Review E</i> , 2011 , 83, 036704	2.4	44
115	Three-dimensional investigation of recrystallization nucleation in a particle-containing Al alloy. <i>Scripta Materialia</i> , 2012 , 67, 320-323	5.6	40
114	Multiscale lattice Boltzmann approach to modeling gas flows. <i>Physical Review E</i> , 2011 , 83, 046701	2.4	40
113	The drag force in two-fluid models of gas-solid flows. <i>Chemical Engineering Science</i> , 2003 , 58, 1641-1644	4.4	39
112	Dynamics of nanoscale droplets on moving surfaces. <i>Langmuir</i> , 2013 , 29, 6936-43	4	38
111	Molecular free path distribution in rarefied gases. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 125502	3	38

110	Gas turbulence modulation in a two-fluid model for gas-solid flows. <i>AIChE Journal</i> , 2003 , 49, 3048-3065	3.6	38
109	Particle-gas turbulence interactions in a kinetic theory approach to granular flows. <i>International Journal of Multiphase Flow</i> , 2001 , 27, 1945-1964	3.6	35
108	A fast spectral method for the Boltzmann equation for monatomic gas mixtures. <i>Journal of Computational Physics</i> , 2015 , 298, 602-621	4.1	33
107	Oscillatory rarefied gas flow inside rectangular cavities. <i>Journal of Fluid Mechanics</i> , 2014 , 748, 350-367	3.7	32
106	Advanced treatment of triazole fungicides discharged water in pilot scale by integrated system: Enhanced electrochemical oxidation, upflow biological aerated filter and electrodialysis. <i>Chemical Engineering Journal</i> , 2017 , 315, 335-344	14.7	31
105	Modelling thermal flow in the transition regime using a lattice Boltzmann approach. <i>Europhysics Letters</i> , 2007 , 77, 30003	1.6	30
104	An analysis of induced pressure fields in electroosmotic flows through microchannels. <i>Journal of Colloid and Interface Science</i> , 2004 , 275, 670-8	9.3	30
103	A lattice Boltzmann method for axisymmetric multicomponent flows with high viscosity ratio. <i>Journal of Computational Physics</i> , 2016 , 327, 873-893	4.1	30
102	Diffuse reflection boundary condition for high-order lattice Boltzmann models with streaming-collision mechanism. <i>Journal of Computational Physics</i> , 2014 , 258, 601-612	4.1	29
101	Can we find steady-state solutions to multiscale rarefied gas flows within dozens of iterations?. <i>Journal of Computational Physics</i> , 2020 , 407, 109245	4.1	29
100	Pore-scale study of counter-current imbibition in strongly water-wet fractured porous media using lattice Boltzmann method. <i>Physics of Fluids</i> , 2019 , 31, 086602	4.4	28
99	Non-equilibrium dynamics of dense gas under tight confinement. <i>Journal of Fluid Mechanics</i> , 2016 , 794, 252-266	3.7	28
98	Modelling thermocapillary migration of a microfluidic droplet on a solid surface. <i>Journal of Computational Physics</i> , 2015 , 280, 37-53	4.1	26
97	Assessment of the ellipsoidal-statistical Bhatnagar-Gross-Krook model for force-driven Poiseuille flows. <i>Journal of Computational Physics</i> , 2013 , 251, 383-395	4.1	26
96	Intrinsic and apparent gas permeability of heterogeneous and anisotropic ultra-tight porous media. <i>Journal of Natural Gas Science and Engineering</i> , 2018 , 60, 271-283	4.6	26
95	Influence of intermolecular potentials on rarefied gas flows: Fast spectral solutions of the Boltzmann equation. <i>Physics of Fluids</i> , 2015 , 27, 082002	4.4	25
94	Lattice Boltzmann Simulation of Droplet Generation in a Microfluidic Cross-Junction. <i>Communications in Computational Physics</i> , 2011 , 9, 1235-1256	2.4	25
93	A multi-level parallel solver for rarefied gas flows in porous media. <i>Computer Physics Communications</i> , 2019 , 234, 14-25	4.2	25

92	A fast iterative scheme for the linearized Boltzmann equation. <i>Journal of Computational Physics</i> , 2017 , 338, 431-451	4.1	24
91	A versatile lattice Boltzmann model for immiscible ternary fluid flows. <i>Physics of Fluids</i> , 2019 , 31, 012108	4.4	24
90	Electrochemical treatment of anticancer drugs wastewater containing 5-Fluoro-2-Methoxypyrimidine using a tubular porous electrode electrocatalytic reactor. <i>Electrochimica Acta</i> , 2016 , 220, 211-221	6.7	23
89	Droplet dynamics in confinement. <i>Journal of Computational Science</i> , 2016 , 17, 463-474	3.4	23
88	Lattice Boltzmann simulation of nonequilibrium effects in oscillatory gas flow. <i>Physical Review E</i> , 2008 , 78, 026706	2.4	23
87	The effect of Knudsen layers on rarefied cylindrical Couette gas flows. <i>Microfluidics and Nanofluidics</i> , 2013 , 14, 31-43	2.8	20
86	Fast spectral solution of the generalized Enskog equation for dense gases. <i>Journal of Computational Physics</i> , 2015 , 303, 66-79	4.1	19
85	Rarefaction throttling effect: Influence of the bend in micro-channel gaseous flow. <i>Physics of Fluids</i> , 2018 , 30, 082002	4.4	19
84	Breakdown parameter for kinetic modeling of multiscale gas flows. <i>Physical Review E</i> , 2014 , 89, 063305	2.4	18
83	Effects of curvature on rarefied gas flows between rotating concentric cylinders. <i>Physics of Fluids</i> , 2013 , 25, 052003	4.4	18
82	Particle Separation in Microfluidic Devices 3/4 SPLIT Fractionation and Microfluidics. <i>Current Analytical Chemistry</i> , 2005 , 1, 345-354	1.7	17
81	Pore-scale simulations of rarefied gas flows in ultra-tight porous media. <i>Fuel</i> , 2019 , 249, 341-351	7.1	16
80	Investigation of pressure-driven gas flows in nanoscale channels using molecular dynamics simulation. <i>Microfluidics and Nanofluidics</i> , 2015 , 18, 1075-1084	2.8	15
79	TBHP/TEMPO-Mediated Oxidative Synthesis of Imides from Amides. <i>Chinese Journal of Chemistry</i> , 2015 , 33, 531-534	4.9	15
78	Simulation of thermal transpiration flow using a high-order moment method. <i>International Journal of Modern Physics C</i> , 2014 , 25, 1450061	1.1	15
77	Comparative study of the Boltzmann and McCormack equations for Couette and Fourier flows of binary gaseous mixtures. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 96, 29-41	4.9	15
76	Copper-Catalyzed Synthesis of Imides from Aldehydes or Alcohols and Amine Hydrochloride Salts. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 1824-1828	3.2	14
75	A comparative study of the DSBGK and DVM methods for low-speed rarefied gas flows. <i>Computers and Fluids</i> , 2019 , 181, 143-159	2.8	14

74	Dense gas flow simulations in ultra-tight confinement. <i>Physics of Fluids</i> , 2020 , 32, 092003	4.4	13
73	Numerical study of the particle sedimentation in a viscous fluid using a coupled DEM-IB-CLBM approach. <i>Journal of Computational Physics</i> , 2018 , 368, 1-20	4.1	13
72	Simulating Fluid Flows in Micro and Nano Devices: The Challenge of Non-Equilibrium Behaviour. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009 , 6, 2061-2074	0.3	12
71	Heat and mass transfer of oscillatory lid-driven cavity flow in the continuum, transition and free molecular flow regimes. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 131, 291-300	4.9	11
70	Implicit Discontinuous Galerkin Method for the Boltzmann Equation. <i>Journal of Scientific Computing</i> , 2020 , 82, 1	2.3	11
69	Nonlinear oscillatory rarefied gas flow inside a rectangular cavity. <i>Physical Review E</i> , 2018 , 97, 043103	2.4	11
68	NH4I-Catalyzed Synthesis of Sulfonamides from Arylsulfonylhydrazides and Amines. <i>Chinese Journal of Chemistry</i> , 2016 , 34, 359-362	4.9	11
67	A facile-operation tubular electro-Fenton system combined with oxygen evolution reaction for flutriafol degradation: Modeling and Parameters optimizing. <i>Electrochimica Acta</i> , 2017 , 246, 1200-1209	6.7	11
66	A high-order hybridizable discontinuous Galerkin method with fast convergence to steady-state solutions of the gas kinetic equation. <i>Journal of Computational Physics</i> , 2019 , 376, 973-991	4.1	10
65	A multi-physics peridynamics-DEM-IB-CLBM framework for the prediction of erosive impact of solid particles in viscous fluids. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 352, 675-690	5.7	10
64	GSIS: An efficient and accurate numerical method to obtain the apparent gas permeability of porous media. <i>Computers and Fluids</i> , 2020 , 206, 104576	2.8	10
63	Rarefaction cloaking: Influence of the fractal rough surface in gas slider bearings. <i>Physics of Fluids</i> , 2017 , 29, 102003	4.4	10
62	Applicability of the Boltzmann equation for a two-dimensional Fermi gas. <i>Physical Review A</i> , 2012 , 85,	2.6	10
61	On the unintentional rarefaction effect in LBM modeling of intrinsic permeability. <i>Advances in Geo-Energy Research</i> , 2018 , 2, 404-409	6.2	10
60	Shale gas permeability upscaling from the pore-scale. <i>Physics of Fluids</i> , 2020 , 32, 102012	4.4	10
59	Pesticide tailwater deeply treated by tubular porous electrode reactor (TPER): Purpose for discharging and cost saving. <i>Chemosphere</i> , 2017 , 185, 86-93	8.4	9
58	Lattice Boltzmann model for thermal transpiration. <i>Physical Review E</i> , 2009 , 79, 027701	2.4	9
57	Simulation of incompressible viscous flows around moving objects by a variant of immersed boundary-lattice Boltzmann method. <i>International Journal for Numerical Methods in Fluids</i> , 2009 , 62, n/a-n/a	1.9	9

56	Kinetic modelling of the quantum gases in the normal phase. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 1799-1823	2.4	9
55	Multiscale simulation of molecular gas flows by the general synthetic iterative scheme. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 373, 113548	5.7	9
54	Lattice Boltzmann Simulation of Immiscible Two-Phase Displacement in Two-Dimensional Berea Sandstone. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1497	2.6	8
53	Oscillatory rarefied gas flow inside a three dimensional rectangular cavity. <i>Physics of Fluids</i> , 2018 , 30, 102002	4.4	8
52	A comparative study of boundary conditions for lattice Boltzmann simulations of high Reynolds number flows. <i>Computers and Fluids</i> , 2017 , 156, 1-8	2.8	7
51	Do thermal effects cause the propulsion of bulk graphene material?. <i>Nature Photonics</i> , 2016 , 10, 139-139	3.9	7
50	Ab initio calculation of rarefied flows of helium-neon mixture: Classical vs quantum scatterings. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 145, 118765	4.9	7
49	Lattice Boltzmann simulation of the trapping of a microdroplet in a well of surface energy. <i>Computers and Fluids</i> , 2017 , 155, 68-75	2.8	7
48	Lattice Boltzmann Simulations of Thermocapillary Motion of Droplets in Microfluidic Channels. <i>Communications in Computational Physics</i> , 2015 , 17, 1113-1126	2.4	7
47	Numerical Simulation of Rarefied Gas Flows with Specified Heat Flux Boundary Conditions. <i>Communications in Computational Physics</i> , 2015 , 17, 1185-1200	2.4	7
46	Rarefied flow separation in microchannel with bends. <i>Journal of Fluid Mechanics</i> , 2020 , 901,	3.7	7
45	General synthetic iterative scheme for nonlinear gas kinetic simulation of multi-scale rarefied gas flows. <i>Journal of Computational Physics</i> , 2021 , 430, 110091	4.1	7
44	Temperature retrieval error in Rayleigh-Brillouin scattering using Tenti-S6 kinetic model 2016 ,		7
43	A hybrid approach to couple the discrete velocity method and Method of Moments for rarefied gas flows. <i>Journal of Computational Physics</i> , 2020 , 410, 109397	4.1	6
42	Color-gradient lattice Boltzmann modeling of immiscible two-phase flows on partially wetting surfaces. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018 , 232, 416-430	1.3	6
41	Droplet Dynamics of Newtonian and Inelastic Non-Newtonian Fluids in Confinement. <i>Micromachines</i> , 2017 , 8, 57	3.3	6
40	KNUDSEN'S PERMEABILITY CORRECTION FOR GAS FLOW IN TIGHT POROUS MEDIA USING THE R26 MOMENT METHOD. <i>Journal of Porous Media</i> , 2017 , 20, 787-805	2.9	6
39	GPU acceleration of an iterative scheme for gas-kinetic model equations with memory reduction techniques. <i>Computer Physics Communications</i> , 2019 , 245, 106861	4.2	6

38	Coherent Rayleigh-Brillouin scattering: Influence of the intermolecular potential 2014 ,		5
37	Numerical investigation of the radial quadrupole and scissors modes in trapped gases. <i>Europhysics Letters</i> , 2012 , 97, 16003	1.6	5
36	Continuum Modelling of Granular Particle Flow with Inelastic Inter-Particle Collisions. <i>Chemical Engineering Research and Design</i> , 2003 , 81, 483-488	5.5	5
35	General theory for flow optimisation of split-flow thin fractionation. <i>Journal of Chromatography A</i> , 2003 , 1010, 87-94	4.5	5
34	The influence of the drag force due to the interstitial gas on granular flows down a chute. <i>International Journal of Multiphase Flow</i> , 2000 , 26, 2049-2072	3.6	5
33	STUDY OF THE PHASE TRANSFORMATION FROM (Fe, Mn)Al ₆ TO β -Al ₁₂ (Fe, Mn) ₃ Si IN AA3104 ALUMINUM ALLOY DURING HOMOGENIZATION. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2012 , 48, 351		5
32	Membrane Separation Coupled with Electrochemical Advanced Oxidation Processes for Organic Wastewater Treatment: A Short Review. <i>Membranes</i> , 2020 , 10,	3.8	5
31	A relaxed multi-direct-forcing immersed boundary-cascaded lattice Boltzmann method accelerated on GPU. <i>Computer Physics Communications</i> , 2020 , 248, 106980	4.2	5
30	Discrete unified gas kinetic scheme for all Knudsen number flows. IV. Strongly inhomogeneous fluids. <i>Physical Review E</i> , 2020 , 101, 043303	2.4	4
29	A lattice Boltzmann study of the effect of stirring on the migration rate of a curved interface in binary slurries. <i>Computers and Fluids</i> , 2006 , 35, 929-933	2.8	4
28	Effect of flow development region and fringing magnetic force field on annular split-flow thin fractionation. <i>Journal of Chromatography A</i> , 2004 , 1042, 137-45	4.5	4
27	A multiscale volume of fluid method with self-consistent boundary conditions derived from molecular dynamics. <i>Physics of Fluids</i> , 2021 , 33, 062004	4.4	4
26	Virtual-Wall Model for Molecular Dynamics Simulation. <i>Molecules</i> , 2016 , 21,	4.8	4
25	Self-diffusivity of dense confined fluids. <i>Physics of Fluids</i> , 2021 , 33, 082009	4.4	4
24	Pore-scale gas flow simulations by the DSBGK and DVM methods. <i>Computers and Fluids</i> , 2021 , 226, 105017	4.8	4
23	Analytical solution of axi-symmetrical lattice Boltzmann model for cylindrical Couette flows. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 8-14	3.3	3
22	Isothermal micro-channel gas flow using a hydrodynamic model with dissipative mass flux 2011 ,		3
21	Thermal transpiration of nanoscale gas flow 2012 ,		3

20	Velocity Inversion In Cylindrical Couette Gas Flows. <i>Journal of Physics: Conference Series</i> , 2012 , 362, 012009		3
19	The kinetic Shakhovenskog model for non-equilibrium flow of dense gases. <i>Journal of Fluid Mechanics</i> , 2020 , 883,	3.7	3
18	Temperature jump and Knudsen layer in rarefied molecular gas. <i>Physics of Fluids</i> , 2022 , 34, 032010	4.4	3
17	Modelling Thermally Induced Non-Equilibrium Gas Flows by Coupling Kinetic and Extended Thermodynamic Methods. <i>Entropy</i> , 2019 , 21,	2.8	2
16	Behaviour of microscale gas flows based on a power-law free path distribution function 2011 ,		2
15	Variance-reduction kinetic simulation of low-speed rarefied gas flow through long microchannels of annular cross sections. <i>Physics of Fluids</i> , 2020 , 32, 082002	4.4	2
14	Computational methods for pore-scale simulation of rarefied gas flow. <i>Computers and Fluids</i> , 2021 , 222, 104932	2.8	2
13	Strongly coupled peridynamic and lattice Boltzmann models using immersed boundary method for flow-induced structural deformation and fracture. <i>Journal of Computational Physics</i> , 2021 , 435, 110267	4.1	2
12	Rarefaction effects in gas flows over curved surfaces 2012 ,		1
11	A kinetic switching criterion for hybrid modelling of multiscale gas flows. <i>Journal of Physics: Conference Series</i> , 2012 , 362, 012006	0.3	1
10	The Importance of Mean Free Path in Determining Gas Micro Flow Behaviour 2010 ,		1
9	Pore-Scale Study of Rarefied Gas Flows Using Low-Variance Deviational Simulation Monte Carlo Method. <i>Transport in Porous Media</i> , 2021 , 138, 25-48	3.1	1
8	High-order hybridisable discontinuous Galerkin method for the gas kinetic equation. <i>International Journal of Computational Fluid Dynamics</i> , 2019 , 33, 335-342	1.2	1
7	Lees-Edwards boundary conditions for the multi-sphere discrete element method. <i>Powder Technology</i> , 2021 , 389, 292-308	5.2	1
6	Physics of Multiphase Microflows and Microdroplets 2012 , 1-21		
5	MODELING VISCOUS FLUID DAMPING IN OSCILLATING MICROSTRUCTURES. <i>Modern Physics Letters B</i> , 2009 , 23, 241-244	1.6	
4	Lattice Boltzmann simulation of droplet behaviour in microfluidic devices. <i>Houille Blanche</i> , 2009 , 95, 84-92	0.3	
3	INFLUENCE OF THE ELECTRIC DOUBLE LAYER ON INDUCED PRESSURE FIELDS AND DEVELOPMENT LENGTHS IN ELECTRO-OSMOTIC FLOWS. <i>Modern Physics Letters B</i> , 2005 , 19, 1655-1658	1.6	

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1 Multiphase Lattice Boltzmann simulations of droplets in Microchannel networks. *Houille Blanche*, 2013, 5-11

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