

Sauro Succi

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.

498 papers	16,249 citations	57 h-index	111 g-index
523 ext. papers	17,658 ext. citations	3.5 avg, IF	6.96 L-index

#	Paper	IF	Citations
498	Analysis of Carleman Linearization of Lattice Boltzmann. <i>Fluids</i> , 2022 , 7, 24	1.6	0
497	Zero Sales Resistance: The Dark Side of Big Data and Artificial Intelligence.. <i>Cyberpsychology, Behavior, and Social Networking</i> , 2022 , 25, 169-173	4.4	0
496	Reply to: Models of flow through sponges must consider the sponge tissue.. <i>Nature</i> , 2022 , 603, E26-E28	50.4	0
495	Stochastic Jetting and Dripping in Confined Soft Granular Flows.. <i>Physical Review Letters</i> , 2022 , 128, 128001	4.1	2
494	LBcuda: A high-performance CUDA port of LBsoft for simulation of colloidal systems. <i>Computer Physics Communications</i> , 2022 , 277, 108380	4.2	2
493	Playing with Casimir in the vacuum sandbox. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	0
492	Optimized Modeling and Design of a PCM-Enhanced H2 Storage. <i>Energies</i> , 2021 , 14, 1554	3.1	2
491	Shear dynamics of polydisperse double emulsions. <i>Physics of Fluids</i> , 2021 , 33, 047105	4.4	7
490	A Lattice Boltzmann Method for relativistic rarefied flows in (2+1) dimensions. <i>Journal of Computational Science</i> , 2021 , 51, 101320	3.4	1
489	Lattice Boltzmann multicomponent model for direct-writing printing. <i>Physics of Fluids</i> , 2021 , 33, 042103	4.4	3
488	Numerical Study of Thermal Diffusion and Diffusion Thermo Effects in a Differentially Heated and Salted Driven Cavity Using MRT-Lattice Boltzmann Finite Difference Model. <i>International Journal of Applied Mechanics</i> , 2021 , 13, 2150049	2.4	5
487	The vortex-driven dynamics of droplets within droplets. <i>Nature Communications</i> , 2021 , 12, 82	17.4	11
486	Spatial interference between infectious hotspots: Epidemic condensation and optimal windspeed. <i>International Journal of Modern Physics C</i> , 2021 , 32, 2150044	1.1	0
485	Rayleigh-BBard convection of a model emulsion: anomalous heat-flux fluctuations and finite-size droplet effects. <i>Soft Matter</i> , 2021 , 17, 3709-3721	3.6	2
484	Mesoscale modelling of droplets' self-assembly in microfluidic channels. <i>Soft Matter</i> , 2021 , 17, 2374-2383	3.6	5
483	Wet to dry self-transitions in dense emulsions: From order to disorder and back. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	4
482	Extreme flow simulations reveal skeletal adaptations of deep-sea sponges. <i>Nature</i> , 2021 , 595, 537-541	50.4	14

481	Translocation Dynamics of High-Internal Phase Double Emulsions in Narrow Channels. <i>Langmuir</i> , 2021 , 37, 9026-9033	4	3
480	Microscale modelling of dielectrophoresis assembly processes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200407	3	2
479	Tracking droplets in soft granular flows with deep learning techniques. <i>European Physical Journal Plus</i> , 2021 , 136, 864	3.1	1
478	Deformation and breakup dynamics of droplets within a tapered channel. <i>Physics of Fluids</i> , 2021 , 33, 082008	4.4	2
477	A fast and efficient deep learning procedure for tracking droplet motion in dense microfluidic emulsions. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200400	3	3
476	In-silico analysis of airflow dynamics and particle transport within a human nasal cavity. <i>Journal of Computational Science</i> , 2021 , 54, 101411	3.4	
475	Projecting LBM performance on Exascale class Architectures: a tentative outlook. <i>Journal of Computational Science</i> , 2021 , 55, 101447	3.4	0
474	Dynamics of polydisperse multiple emulsions in microfluidic channels.. <i>Physical Review E</i> , 2021 , 104, 065112	3.4	1
473	Multiparticle collision dynamics for fluid interfaces with near-contact interactions. <i>Journal of Chemical Physics</i> , 2020 , 152, 144101	3.9	1
472	Dissipative hydrodynamics of relativistic shock waves in a quark gluon plasma: Comparing and benchmarking alternate numerical methods. <i>Physical Review C</i> , 2020 , 101,	2.7	4
471	Semi-Lagrangian implicit Bhatnagar-Gross-Krook collision model for the finite-volume discrete Boltzmann method. <i>Physical Review E</i> , 2020 , 101, 063301	2.4	1
470	A coupled lattice Boltzmann-Multiparticle collision method for multi-resolution hydrodynamics. <i>Journal of Computational Science</i> , 2020 , 44, 101160	3.4	1
469	Nanofluid Heat Transfer in Wavy-Wall Channels with Different Geometries: A Finite-Volume Lattice Boltzmann Study. <i>Journal of Scientific Computing</i> , 2020 , 83, 1	2.3	6
468	A Multiresolution Mesoscale Approach for Microscale Hydrodynamics. <i>Advanced Theory and Simulations</i> , 2020 , 3, 1900250	3.5	2
467	Novel nonequilibrium steady states in multiple emulsions. <i>Physics of Fluids</i> , 2020 , 32, 017102	4.4	16
466	Relativistic lattice Boltzmann methods: Theory and applications. <i>Physics Reports</i> , 2020 , 863, 1-63	27.7	12
465	Concentrated phase emulsion with multicore morphology under shear: A numerical study. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	6
464	Lattice Boltzmann simulations capture the multiscale physics of soft flowing crystals. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190406	3	3

463	Discrete fluidization of dense monodisperse emulsions in neutral wetting microchannels. <i>Soft Matter</i> , 2020 , 16, 651-658	3.6	3
462	Neural network models for the anisotropic Reynolds stress tensor in turbulent channel flow. <i>Journal of Turbulence</i> , 2020 , 21, 525-543	2.1	15
461	Beyond moments: relativistic lattice Boltzmann methods for radiative transport in computational astrophysics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 498, 3374-3394	4.3	6
460	Toward exascale design of soft mesoscale materials. <i>Journal of Computational Science</i> , 2020 , 46, 101175	3.4	3
459	LBsoft: A parallel open-source software for simulation of colloidal systems. <i>Computer Physics Communications</i> , 2020 , 256, 107455	4.2	6
458	Towards a self-consistent Boltzmann's kinetic model of fluid turbulence. <i>Journal of Turbulence</i> , 2020 , 21, 375-385	2.1	2
457	Relativistic anti-fragility. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	
456	Shear dynamics of confined bijels. <i>AIP Advances</i> , 2020 , 10, 095304	1.5	3
455	Probing bulk viscosity in relativistic flows. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190409	3	2
454	Modeling drug delivery from multiple emulsions. <i>Physical Review E</i> , 2020 , 102, 023114	2.4	11
453	Models of polymer solutions in electrified jets and solution blowing. <i>Reviews of Modern Physics</i> , 2020 , 92,	40.5	28
452	Microvorticity fluctuations affect the structure of thin fluid films. <i>Physical Review E</i> , 2019 , 100, 042606	2.4	1
451	Simulating blood rheology across scales: A hybrid LB-particle approach. <i>International Journal of Modern Physics C</i> , 2019 , 30, 1941003	1.1	1
450	Effects of Advective-Diffusive Transport of Multiple Chemoattractants on Motility of Engineered Chemosensory Particles in Fluidic Environments. <i>Entropy</i> , 2019 , 21,	2.8	1
449	Mesoscale modelling of near-contact interactions for complex flowing interfaces. <i>Journal of Fluid Mechanics</i> , 2019 , 872, 327-347	3.7	31
448	Quantized Alternate Current on Curved Graphene. <i>Condensed Matter</i> , 2019 , 4, 39	1.8	2
447	Mesosopic simulations at the physics-chemistry-biology interface. <i>Reviews of Modern Physics</i> , 2019 , 91,	40.5	23
446	Combined effects of fluid type and particle shape on particles flow in microfluidic platforms. <i>Microfluidics and Nanofluidics</i> , 2019 , 23, 1	2.8	6

445	Relativistic dissipation obeys Chapman-Enskog asymptotics: Analytical and numerical evidence as a basis for accurate kinetic simulations. <i>Physical Review E</i> , 2019 , 99, 052126	2.4	8
444	Modeling realistic multiphase flows using a non-orthogonal multiple-relaxation-time lattice Boltzmann method. <i>Physics of Fluids</i> , 2019 , 31, 042105	4.4	35
443	Mesoscale modelling of soft flowing crystals. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20180149	3	14
442	Big data: the end of the scientific method?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20180145	3	42
441	Of Naturalness and Complexity. <i>European Physical Journal Plus</i> , 2019 , 134, 1	3.1	3
440	Entropy production in thermal phase separation: a kinetic-theory approach. <i>Soft Matter</i> , 2019 , 15, 2245-2259	3.5	11
439	A moving-grid approach for fluid-structure interaction problems with hybrid lattice Boltzmann method. <i>Computer Physics Communications</i> , 2019 , 234, 137-145	4.2	15
438	Dynamic symmetry-breaking in mutually annihilating fluids with selective interfaces. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019 , 2019, 083215	1.9	
437	On the impact of controlled wall roughness shape on the flow of a soft material. <i>Europhysics Letters</i> , 2019 , 127, 34005	1.6	6
436	Modeling pattern formation in soft flowing crystals. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	21
435	Curvature dynamics and long-range effects on fluid-fluid interfaces with colloids. <i>Soft Matter</i> , 2019 , 15, 2848-2862	3.6	7
434	Jetting to dripping transition: Critical aspect ratio in step emulsifiers. <i>Physics of Fluids</i> , 2019 , 31, 021703	4.4	14
433	Towards a mean-field kinetic model of electroweak baryogenesis. <i>Journal of Physics: Conference Series</i> , 2019 , 1354, 012001	0.3	
432	Disordered interfaces in soft fluids with suspended colloids. <i>International Journal of Modern Physics C</i> , 2019 , 30, 1941004	1.1	1
431	Towards Exascale Lattice Boltzmann computing. <i>Computers and Fluids</i> , 2019 , 181, 107-115	2.8	21
430	Simulation of three dimensional MHD natural convection using double MRT Lattice Boltzmann method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 515, 474-496	3.3	38
429	Regularized lattice Boltzmann multicomponent models for low capillary and Reynolds microfluidics flows. <i>Computers and Fluids</i> , 2018 , 167, 33-39	2.8	24
428	Fluid flow around NACA 0012 airfoil at low-Reynolds numbers with hybrid lattice Boltzmann method. <i>Computers and Fluids</i> , 2018 , 166, 200-208	2.8	28

427	Numerical evidence of electron hydrodynamic whirlpools in graphene samples. <i>Computers and Fluids</i> , 2018 , 172, 644-650	2.8	4
426	Lattice Wigner equation. <i>Physical Review E</i> , 2018 , 97, 013308	2.4	4
425	Multicomponent Lattice Boltzmann Models for Biological Applications 2018 , 357-370		1
424	Entropic lattice Boltzmann model for charged leaky dielectric multiphase fluids in electrified jets. <i>Physical Review E</i> , 2018 , 97, 033308	2.4	16
423	Particle Shape Influences Settling and Sorting Behavior in Microfluidic Domains. <i>Scientific Reports</i> , 2018 , 8, 8583	4.9	17
422	General curved boundary treatment for two- and three-dimensional stationary and moving walls in flow and nonflow lattice Boltzmann simulations. <i>Physical Review E</i> , 2018 , 98, 023304	2.4	3
421	On the effects of surface corrugation on the hydrodynamic performance of cylindrical rigid structures. <i>European Physical Journal E</i> , 2018 , 41, 95	1.5	5
420	Simulation of turbulent flows with the entropic multirelaxation time lattice Boltzmann method on body-fitted meshes. <i>Journal of Fluid Mechanics</i> , 2018 , 849, 35-56	3.7	38
419	Elucidating the mechanism of step emulsification. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	18
418	Mesoscopic model for soft flowing systems with tunable viscosity ratio. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	14
417	On the Effects of Reactant Flow Rarefaction on Heterogeneous Catalysis: a Regularized Lattice Boltzmann Study. <i>Communications in Computational Physics</i> , 2018 , 23,	2.4	2
416	Quantum Lattice Boltzmann Study of Random-Mass Dirac Fermions in One Dimension 2018 , 321-330		
415	The Lattice Boltzmann Equation 2018 ,		150
414	Multilevel Lattice Boltzmann-Particle Dynamics simulations at the Physics-Biology interface. <i>Journal of Physics: Conference Series</i> , 2018 , 1136, 012013	0.3	1
413	Prospects for the Detection of Electronic Preturbulence in Graphene. <i>Physical Review Letters</i> , 2018 , 121, 236602	7.4	11
412	Lattice propagators and Haldane-Wu fractional statistics. <i>Europhysics Letters</i> , 2018 , 122, 10002	1.6	
411	Discrete Boltzmann trans-scale modeling of high-speed compressible flows. <i>Physical Review E</i> , 2018 , 97, 053312	2.4	31
410	Energy dissipation in flows through curved spaces. <i>Scientific Reports</i> , 2017 , 7, 42350	4.9	13

409	General velocity, pressure, and initial condition for two-dimensional and three-dimensional lattice Boltzmann simulations. <i>Physical Review E</i> , 2017 , 95, 033301	2.4	6
408	Roughness as a Route to the Ultimate Regime of Thermal Convection. <i>Physical Review Letters</i> , 2017 , 118, 074503	7.4	53
407	Effect of nanoscale flows on the surface structure of nanoporous catalysts. <i>Journal of Chemical Physics</i> , 2017 , 146, 214703	3.9	20
406	Role of Oxygen Functionalities in Graphene Oxide Architectural Laminate Subnanometer Spacing and Water Transport. <i>Environmental Science & Technology</i> , 2017 , 51, 4280-4288	10.3	53
405	Heterogeneous catalysis in pulsed-flow reactors with nanoporous gold hollow spheres. <i>Chemical Engineering Science</i> , 2017 , 166, 274-282	4.4	27
404	Hybrid lattice Boltzmann method on overlapping grids. <i>Physical Review E</i> , 2017 , 95, 013309	2.4	25
403	Enhanced computational performance of the lattice Boltzmann model for simulating micron- and submicron-size particle flows and non-Newtonian fluid flows. <i>Computer Physics Communications</i> , 2017 , 213, 64-71	4.2	8
402	Computational performance of SequenceL coding of the lattice Boltzmann method for multi-particle flow simulations. <i>Computer Physics Communications</i> , 2017 , 213, 92-99	4.2	3
401	Integer lattice dynamics for Vlasov-Poisson. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 465, 3154-3162	4.3	4
400	Isotropic finite-difference discretization of stochastic conservation laws preserving detailed balance. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2017 , 2017, 103202	1.9	3
399	Entropic lattice pseudo-potentials for multiphase flow simulations at high Weber and Reynolds numbers. <i>Physics of Fluids</i> , 2017 , 29, 092103	4.4	28
398	Towards a unified lattice kinetic scheme for relativistic hydrodynamics. <i>Physical Review E</i> , 2017 , 95, 053304	3.4	17
397	Kinetic approach to relativistic dissipation. <i>Physical Review E</i> , 2017 , 96, 023305	2.4	15
396	Effects of orthogonal rotating electric fields on electrospinning process. <i>Physics of Fluids</i> , 2017 , 29, 082003	4.4	13
395	Effects of nanoparticles on the dynamic morphology of electrified jets. <i>Europhysics Letters</i> , 2017 , 119, 44001	1.6	1
394	A multi-component discrete Boltzmann model for nonequilibrium reactive flows. <i>Scientific Reports</i> , 2017 , 7, 14580	4.9	34
393	Striated populations in disordered environments with advection. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017 , 465, 500-514	3.3	8
392	Reassessing the single relaxation time Lattice Boltzmann method for the simulation of Darcy flows. <i>International Journal of Modern Physics C</i> , 2016 , 27, 1650037	1.1	22

391	Cooperativity flows and shear-bandings: a statistical field theory approach. <i>Soft Matter</i> , 2016 , 12, 514-303.6	16
390	Poiseuille flow in curved spaces. <i>Physical Review E</i> , 2016 , 93, 043316	2.4 6
389	Mapping reactive flow patterns in monolithic nanoporous catalysts. <i>Microfluidics and Nanofluidics</i> , 2016 , 20, 1	2.8 38
388	Lattice kinetic approach to non-equilibrium flows 2016 ,	3
387	DSMC \rightarrow BM mapping scheme for rarefied and non-rarefied gas flows. <i>Journal of Computational Science</i> , 2016 , 17, 357-369	3.4 24
386	Semi-spectral method for the Wigner equation. <i>Journal of Computational Physics</i> , 2016 , 305, 1015-1036	4.1 6
385	Non-Newtonian particulate flow simulation: A direct-forcing immersed boundary lattice Boltzmann approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 447, 1-20	3.3 44
384	Coupled RapidCell and lattice Boltzmann models to simulate hydrodynamics of bacterial transport in response to chemoattractant gradients in confined domains. <i>Microfluidics and Nanofluidics</i> , 2016 , 20, 1	2.8 3
383	Three-Dimensional Model for Electrospinning Processes in Controlled Gas Counterflow. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 4884-92	2.8 10
382	Spread of consensus in self-organized groups of individuals: Hydrodynamics matters. <i>Europhysics Letters</i> , 2016 , 113, 18001	1.6 4
381	Minimal kinetic theory: a mathematical framework for non-equilibrium flowing matter. <i>Journal of Physics: Conference Series</i> , 2016 , 681, 012006	0.3
380	Extended friction elucidates the breakdown of fast water transport in graphene oxide membranes. <i>Europhysics Letters</i> , 2016 , 116, 54002	1.6 16
379	Lattice Boltzmann beyond Navier-Stokes: Where do we stand? 2016 ,	7
378	Complex Flow Simulation via Lattice Boltzmann Method 2016 , 38-1-38-30	1
377	Effects of Knudsen diffusivity on the effective reactivity of nanoporous catalyst media. <i>Journal of Computational Science</i> , 2016 , 17, 377-383	3.4 34
376	Dynamic mesh refinement for discrete models of jet electro-hydrodynamics. <i>Journal of Computational Science</i> , 2016 , 17, 325-333	3.4 10
375	Chimaera simulation of complex states of flowing matter. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3 10
374	Lattice Boltzmann accelerated direct simulation Monte Carlo for dilute gas flow simulations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3 13

373	Bridging the gaps at the physics-chemistry-biology interface. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	26
372	Nonequilibrium thermohydrodynamic effects on the Rayleigh-Taylor instability in compressible flows. <i>Physical Review E</i> , 2016 , 94, 023106	2.4	49
371	Internal dynamics and activated processes in soft-glassy materials. <i>Soft Matter</i> , 2015 , 11, 1271-80	3.6	14
370	Three-Dimensional Lattice Pseudo-Potentials for Multiphase Flow Simulations at High Density Ratios. <i>Journal of Statistical Physics</i> , 2015 , 161, 1404-1419	1.5	32
369	Nonlinear Langevin model for the early-stage dynamics of electrospinning jets. <i>Molecular Physics</i> , 2015 , 113, 2435-2441	1.7	9
368	Sub-ms dynamics of the instability onset of electrospinning. <i>Soft Matter</i> , 2015 , 11, 3424-31	3.6	23
367	Discrete Boltzmann modeling of multiphase flows: hydrodynamic and thermodynamic non-equilibrium effects. <i>Soft Matter</i> , 2015 , 11, 5336-45	3.6	83
366	Lattice Boltzmann 2038. <i>Europhysics Letters</i> , 2015 , 109, 50001	1.6	143
365	Tailoring boundary geometry to optimize heat transport in turbulent convection. <i>Europhysics Letters</i> , 2015 , 111, 44005	1.6	17
364	JETSPIN: A specific-purpose open-source software for simulations of nanofiber electrospinning. <i>Computer Physics Communications</i> , 2015 , 197, 227-238	4.2	16
363	Different regimes of the uniaxial elongation of electrically charged viscoelastic jets due to dissipative air drag. <i>Mechanics Research Communications</i> , 2015 , 69, 97-102	2.2	10
362	A multispeed Discrete Boltzmann Model for transcritical 2D shallow water flows. <i>Journal of Computational Physics</i> , 2015 , 284, 117-132	4.1	33
361	Lattice Boltzmann simulations of vortex entrapment of particles in a microchannel with curved or flat edges. <i>Microfluidics and Nanofluidics</i> , 2015 , 18, 1165-1175	2.8	9
360	Turbulent Transport Processes at Rough Surfaces with Geophysical Applications. <i>Procedia IUTAM</i> , 2015 , 15, 34-40		5
359	The importance of chemical potential in the determination of water slip in nanochannels. <i>European Physical Journal E</i> , 2015 , 38, 127	1.5	6
358	Numerical solution of the nonlinear Schrödinger equation using smoothed-particle hydrodynamics. <i>Physical Review E</i> , 2015 , 91, 053304	2.4	50
357	Lattice Boltzmann approach for complex nonequilibrium flows. <i>Physical Review E</i> , 2015 , 92, 043308	2.4	63
356	Lattice Boltzmann model for resistive relativistic magnetohydrodynamics. <i>Physical Review E</i> , 2015 , 92, 023309	2.4	9

355	Quantum Simulator for Transport Phenomena in Fluid Flows. <i>Scientific Reports</i> , 2015 , 5, 13153	4.9	15
354	Immersed Boundary Thermal Lattice Boltzmann Methods for Non-Newtonian Flows Over a Heated Cylinder: A Comparative Study. <i>Communications in Computational Physics</i> , 2015 , 18, 489-515	2.4	32
353	Cooling Effect of the Richtmyer-Meshkov Instability. <i>ESAIM Proceedings and Surveys</i> , 2015 , 52, 66-75	0.9	
352	Paradoxical ratcheting in cornstarch. <i>Physics of Fluids</i> , 2015 , 27, 103101	4.4	2
351	The Role of Very Low-Reynolds Hydrodynamics on the Transfer of Information Among Active Agents. <i>Journal of Statistical Physics</i> , 2015 , 161, 1390-1403	1.5	0
350	Novel risk predictor for thrombus deposition in abdominal aortic aneurysms. <i>Europhysics Letters</i> , 2015 , 112, 28001	1.6	5
349	Lattice Boltzmann Model for Electronic Structure Simulations. <i>Journal of Physics: Conference Series</i> , 2015 , 640, 012018	0.3	
348	Entropy-Assisted Computing of Low-Dissipative Systems. <i>Entropy</i> , 2015 , 17, 8099-8110	2.8	4
347	Short-Lived Lattice Quasiparticles for Strongly Interacting Fluids. <i>Entropy</i> , 2015 , 17, 6169-6178	2.8	2
346	Quantum lattice Boltzmann is a quantum walk. <i>EPJ Quantum Technology</i> , 2015 , 2,	6.9	21
345	High-order kinetic relaxation schemes as high-accuracy Poisson solvers. <i>International Journal of Modern Physics C</i> , 2015 , 26, 1550055	1.1	1
344	Rayleigh-BBard instability in graphene. <i>Physical Review B</i> , 2015 , 91,	3.3	12
343	Lattice Boltzmann Simulation of Mixed Convection Heat Transfer in a Driven Cavity with Non-uniform Heating of the Bottom Wall. <i>Communications in Theoretical Physics</i> , 2015 , 63, 91-100	2.4	15
342	Finite volume formulation of thermal lattice Boltzmann method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2014 , 24, 270-289	4.5	22
341	A hydro-kinetic scheme for the dynamics of hydrogen bonds in water-like fluids. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 15510-8	3.6	3
340	Direct evidence of plastic events and dynamic heterogeneities in soft-glasses. <i>Soft Matter</i> , 2014 , 10, 4615-4624	5.24	22
339	Kinetic formulation of the Kohn-Sham Equations for ab initio electronic structure calculations. <i>Physical Review Letters</i> , 2014 , 113, 096402	7.4	12
338	Effects of non-linear rheology on electrospinning process: A model study. <i>Mechanics Research Communications</i> , 2014 , 61, 41-46	2.2	16

337	Lattice Boltzmann method as a computational framework for multiscale haemodynamics. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2014 , 20, 470-490	1	10
336	Scalar field inflation and Shan-Chen fluid models. <i>Physical Review D</i> , 2014 , 90,	4.9	4
335	Non-Newtonian unconfined flow and heat transfer over a heated cylinder using the direct-forcing immersed boundary-thermal lattice Boltzmann method. <i>Physical Review E</i> , 2014 , 89, 053312	2.4	29
334	Lattice Boltzmann modeling of water-like fluids. <i>Frontiers in Physics</i> , 2014 , 2,	3.9	6
333	Lattice Boltzmann modeling of water entry problems. <i>International Journal of Modern Physics C</i> , 2014 , 25, 1441012	1.1	30
332	Regularized lattice BGK versus highly accurate spectral methods for cavity flow simulations. <i>International Journal of Modern Physics C</i> , 2014 , 25, 1441003	1.1	14
331	Relativistic effects on the Richtmyer-Meshkov instability. <i>Physical Review D</i> , 2014 , 90,	4.9	5
330	Relativistic lattice kinetic theory: Recent developments and future prospects. <i>European Physical Journal: Special Topics</i> , 2014 , 223, 2177-2188	2.3	12
329	Regularized lattice Bhatnagar-Gross-Krook model for two- and three-dimensional cavity flow simulations. <i>Physical Review E</i> , 2014 , 89, 053317	2.4	64
328	Ultrathin Fibers from Electrospinning Experiments under Driven Fast-Oscillating Perturbations. <i>Physical Review Applied</i> , 2014 , 2,	4.3	9
327	A NOTE ON THE LATTICE BOLTZMANN VERSUS FINITE-DIFFERENCE METHODS FOR THE NUMERICAL SOLUTION OF THE FISHER'S EQUATION. <i>International Journal of Modern Physics C</i> , 2014 , 25, 1340015	1.1	7
326	Lattice kinetic scheme for generalized coordinates and curved spaces. <i>International Journal of Modern Physics C</i> , 2014 , 25, 1441001	1.1	7
325	Polar-coordinate lattice Boltzmann modeling of compressible flows. <i>Physical Review E</i> , 2014 , 89, 013307	2.4	39
324	Hydrodynamics in Porous Media: A Finite Volume Lattice Boltzmann Study. <i>Journal of Scientific Computing</i> , 2014 , 59, 80-103	2.3	27
323	Mesosopic particle models of fluid flows. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2014 , 137-165	0.6	
322	Formal analogy between the Dirac equation in its Majorana form and the discrete-velocity version of the Boltzmann kinetic equation. <i>Physical Review Letters</i> , 2013 , 111, 160602	7.4	22
321	Direct numerical evidence of stress-induced cavitation. <i>Journal of Fluid Mechanics</i> , 2013 , 728, 362-375	3.7	45
320	The Lattice Boltzmann Method as a General Framework for Blood Flow Modelling and Simulations 2013 , 153-170		

319	Lattice Boltzmann implementation of the three-dimensional Ben-Naim potential for water-like fluids. <i>Journal of Chemical Physics</i> , 2013 , 138, 124105	3.9	2
318	Dark energy from cosmological fluids obeying a Shan-Chen nonideal equation of state. <i>Physical Review D</i> , 2013 , 88,	4.9	7
317	Regularization of the slip length divergence in water nanoflows by inhomogeneities at the Angstrom scale. <i>Soft Matter</i> , 2013 , 9, 8526	3.6	25
316	Universal mechanism for saturation of vorticity growth in fully developed fluid turbulence. <i>Journal of Fluid Mechanics</i> , 2013 , 728,	3.7	7
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