Christophe Coreixas

List of Publications by Citations

14 papers	334 citations	11 h-index	15 g-index
15 ext. papers	483 ext. citations	3.1 avg, IF	4.39 L-index

#	Paper	IF	Citations
14	Recursive regularization step for high-order lattice Boltzmann methods. *Physical Review E*, **2017**, 96, 033306	2.4	75
13	Palabos: Parallel Lattice Boltzmann Solver. *Computers and Mathematics With Applications*, **2021**, 81, 334-350	2.7	68
12	Comprehensive comparison of collision models in the lattice Boltzmann framework: Theoretical investigations. *Physical Review E*, **2019**, 100, 033305	2.4	53
11	Stability of the lattice kinetic scheme and choice of the free relaxation parameter. *Physical Review E* , **2019**, 99, 063305	2.4	22
10	Universal formulation of central-moments-based lattice Boltzmann method with external forcing for the simulation of multiphysics phenomena. *Physics of Fluids*, **2019**, 31, 117102	4.4	19
9	Efficient supersonic flow simulations using lattice Boltzmann methods based on numerical equilibria. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2020** , 378, 20190559	3	18
8	Multiphysics flow simulations using D3Q19 lattice Boltzmann methods based on central moments. *Physics of Fluids*, **2020**, 32, 117101	4.4	16
7	Impact of collision models on the physical properties and the stability of lattice Boltzmann methods. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2020**, 378, 20190397	3	15
6	Extensive analysis of the lattice Boltzmann method on shifted stencils. *Physical Review E*, **2019**, 100, 063301	2.4	13
5	Linear stability and isotropy properties of athermal regularized lattice Boltzmann methods. *Physical Review E*, **2020**, 102, 053305	2.4	11
4	Compressible lattice Boltzmann methods with adaptive velocity stencils: An interpolation-free formulation. *Physics of Fluids*, **2020**, 32, 116102	4.4	11
3	Simulations of LAGOON landing-gear noise using Lattice Boltzmann Solver **2015**,		9
2	Cross-platform programming model for many-core lattice Boltzmann simulations. *PLoS ONE*, **2021**, 16, e0250306	3.7	4
1	PalaCell2D: A framework for detailed tissue morphogenesis. *Journal of Computational Science*, **2021**, 53, 101353	3.4	0