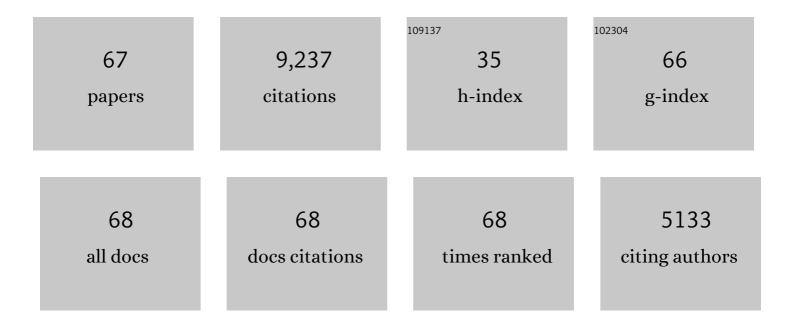
## Anthony J C Ladd

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Numerical simulations of particulate suspensions via a discretized Boltzmann equation. Part 1. Theoretical foundation. Journal of Fluid Mechanics, 1994, 271, 285-309.	1.4	1,938
2	New Monte Carlo method to compute the free energy of arbitrary solids. Application to the fcc and hcp phases of hard spheres. Journal of Chemical Physics, 1984, 81, 3188-3193.	1.2	1,060
3	Numerical simulations of particulate suspensions via a discretized Boltzmann equation. Part 2. Numerical results. Journal of Fluid Mechanics, 1994, 271, 311-339.	1.4	1,026
4	High-Strain-Rate Plastic Flow Studied via Nonequilibrium Molecular Dynamics. Physical Review Letters, 1982, 48, 1818-1820.	2.9	506
5	Moderate-Reynolds-number flows in ordered and random arrays of spheres. Journal of Fluid Mechanics, 2001, 448, 243-278.	1.4	419
6	Nonequilibrium molecular dynamics via Gauss's principle of least constraint. Physical Review A, 1983, 28, 1016-1021.	1.0	400
7	The first effects of fluid inertia on flows in ordered and random arrays of spheres. Journal of Fluid Mechanics, 2001, 448, 213-241.	1.4	352
8	Hydrodynamic transport coefficients of random dispersions of hard spheres. Journal of Chemical Physics, 1990, 93, 3484-3494.	1.2	328
9	Lattice thermal conductivity: A comparison of molecular dynamics and anharmonic lattice dynamics. Physical Review B, 1986, 34, 5058-5064.	1.1	313
10	Lennard-Jones triple-point bulk and shear viscosities. Green-Kubo theory, Hamiltonian mechanics, and nonequilibrium molecular dynamics. Physical Review A, 1980, 22, 1690-1697.	1.0	290
11	Moderate Reynolds number flows through periodic and random arrays of aligned cylinders. Journal of Fluid Mechanics, 1997, 349, 31-66.	1.4	237
12	Hydrodynamic interactions in a suspension of spherical particles. Journal of Chemical Physics, 1988, 88, 5051-5063.	1.2	148
13	Finite-element modeling of trabecular bone: Comparison with mechanical testing and determination of tissue modulus. Journal of Orthopaedic Research, 1998, 16, 622-628.	1.2	148
14	Rheology of suspensions with high particle inertia and moderate fluid inertia. Journal of Fluid Mechanics, 2003, 480, 95-118.	1.4	127
15	Dynamical simulations of sedimenting spheres. Physics of Fluids A, Fluid Dynamics, 1993, 5, 299-310.	1.6	113
16	Hydrodynamic Screening in Sedimenting Suspensions of non-Brownian Spheres. Physical Review Letters, 1996, 76, 1392-1395.	2.9	111
17	Sedimentation of hard-sphere suspensions at low Reynolds number. Journal of Fluid Mechanics, 2005, 525, 73-104.	1.4	109
18	Flow-induced migration of polymers in dilute solution. Physics of Fluids, 2006, 18, 031703.	1.6	85

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19	Bulk viscosity via nonequilibrium and equilibrium molecular dynamics. Physical Review A, 1980, 21, 1756-1760.	1.0	79
20	Location of melting point at 300 K of nitrogen by Monte Carlo simulation. Journal of Chemical Physics, 1990, 92, 7570-7575.	1.2	75
21	Reactive-infiltration instabilities in rocks. Fracture dissolution. Journal of Fluid Mechanics, 2012, 702, 239-264.	1.4	72
22	Simulation of mineral dissolution at the pore scale with evolving fluid-solid interfaces: review of approaches and benchmark problem set. Computational Geosciences, 2021, 25, 1285-1318.	1.2	72
23	Elastic constants of hard-sphere crystals. Physical Review Letters, 1987, 59, 1169-1169.	2.9	70
24	Deformation and failure in cellular materials. Physical Review E, 1997, 55, 3271-3275.	0.8	64
25	Application of lattice-gas cellular automata to the Brownian motion of solids in suspension. Physical Review Letters, 1988, 60, 975-978.	2.9	60
26	Initial conditions or emergence: What determines dissolution patterns in rough fractures?. Journal of Geophysical Research: Solid Earth, 2015, 120, 6102-6121.	1.4	59
27	Time-Dependent Collective Diffusion of Colloidal Particles. Physical Review Letters, 1995, 74, 318-321.	2.9	58
28	Reactive-infiltration instabilities in rocks. Part 2. Dissolution of a porous matrix. Journal of Fluid Mechanics, 2014, 738, 591-630.	1.4	58
29	Threeâ€dimensional simulations of fracture dissolution. Journal of Geophysical Research: Solid Earth, 2016, 121, 6421-6444.	1.4	58
30	Transverse Migration of a Confined Polymer Driven by an External Force. Physical Review Letters, 2007, 98, 098301.	2.9	57
31	Temporal and spatial dependence of hydrodynamic correlations: Simulation and experiment. Physical Review E, 1995, 52, 6550-6572.	0.8	49
32	Hydrodynamic interactions and the viscosity of suspensions of freely moving spheres. Journal of Chemical Physics, 1989, 90, 1149-1157.	1.2	48
33	The Development of Wormholes in Laboratoryâ€Scale Fractures: Perspectives From Threeâ€Dimensional Simulations. Water Resources Research, 2018, 54, 7946-7959.	1.7	42
34	Lorentz gas shear viscosity via nonequilibrium molecular dynamics and Boltzmann's equation. Journal of Statistical Physics, 1985, 38, 973-988.	0.5	39
35	Kinetic theory of a confined polymer driven by an external force and pressure-driven flow. Physics of Fluids, 2007, 19, .	1.6	36
36	Self-diffusion of colloidal particles in a two-dimensional suspension: Are deviations from Fick's law experimentally observable?. Physical Review Letters, 1991, 67, 3459-3462.	2.9	34

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37	Comparison of lattice-Boltzmann and Brownian-dynamics simulations of polymer migration in confined flows. Physical Review E, 2010, 82, 011802.	0.8	30
38	Structural relaxation in dense hard-sphere fluids. Journal of Statistical Physics, 1987, 48, 1147-1156.	0.5	28
39	Comparison of the static and dynamic properties of a semiflexible polymer using lattice Boltzmann and Brownian-dynamics simulations. Physical Review E, 2009, 80, 036704.	0.8	28
40	Dissipative hydrodynamic interactions via latticeâ€gas cellular automata. Physics of Fluids A, Fluid Dynamics, 1990, 2, 1921-1924.	1.6	25
41	Lattice-Boltzmann methods for suspensions of solid particles. Molecular Physics, 2015, 113, 2531-2537.	0.8	25
42	Reactive Flows in Porous Media: Challenges in Theoretical and Numerical Methods. Annual Review of Chemical and Biomolecular Engineering, 2021, 12, 543-571.	3.3	25
43	Role of hydrodynamic interactions in the migration of polyelectrolytes driven by a pressure gradient and an electric field. Physical Review E, 2010, 82, 050803.	0.8	24
44	Energy and entropy of interacting dislocations. Physical Review B, 1982, 26, 5469-5479.	1.1	23
45	Plastic flow in close-packed crystals via nonequilibrium molecular dynamics. Physical Review B, 1983, 28, 1756-1762.	1.1	22
46	Axial Segregation in a Cylindrical Centrifuge. Physical Review Letters, 2002, 89, 104301.	2.9	22
47	Transient Pinning and Pulling: A Mechanism for Bending Microtubules. PLoS ONE, 2016, 11, e0151322.	1.1	22
48	Mechanics of Vorticella Contraction. Biophysical Journal, 2010, 98, 2923-2932.	0.2	21
49	Time-dependent shapes of a dissolving mineral grain: Comparisons of simulations with microfluidic experiments. Chemical Geology, 2020, 540, 119459.	1.4	19
50	Transverse migration of polyelectrolytes in microfluidic channels induced by combined shear and electric fields. Soft Matter, 2015, 11, 4375-4382.	1.2	18
51	Electro-hydrodynamic concentration of genomic length DNA. Soft Matter, 2016, 12, 6975-6984.	1.2	17
52	Computer simulation studies of static and dynamical scaling in dilute solutions of excluded-volume polymers. Macromolecules, 1992, 25, 3435-3438.	2.2	16
53	Trapping DNA with a high throughput microfluidic device. Electrophoresis, 2019, 40, 437-446.	1.3	14
54	Highâ€pressure mechanical instability in closeâ€packed Hooke's″aw crystals. Journal of Chemical Physics, 1981, 74, 1337-1339.	1.2	13

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55	Particle dynamics and pattern formation in a rotating suspension. Journal of Fluid Mechanics, 2007, 577, 183-209.	1.4	13
56	Fluctuating Motor Forces Bend Growing Microtubules. Cellular and Molecular Bioengineering, 2013, 6, 120-129.	1.0	13
57	Synchronization of dissolution and precipitation fronts during infiltrationâ€driven replacement in porous rocks. Geophysical Research Letters, 2015, 42, 2244-2252.	1.5	13
58	Dissolution of a cylindrical disk in Hele-Shaw flow: a conformal-mapping approach. Journal of Fluid Mechanics, 2020, 903, .	1.4	13
59	Use and misuse of largeâ€density asymptotics in the reactionâ€infiltration instability. Water Resources Research, 2017, 53, 2419-2430.	1.7	12
60	Decay of angular correlations in hard-sphere fluids. Journal of Statistical Physics, 1989, 57, 473-482.	0.5	10
61	Transverse migration and microfluidic concentration of DNA using Newtonian buffers. Biomicrofluidics, 2019, 13, 044104.	1.2	9
62	Instabilities and finger formation in replacement fronts driven by an oversaturated solution. Journal of Geophysical Research: Solid Earth, 2017, 122, 5972-5991.	1.4	7
63	A computer simulation study of multiphase squeezing flows. Physics of Fluids, 2002, 14, 1631-1641.	1.6	6
64	Electro-hydrodynamic extraction of DNA from mixtures of DNA and bovine serum albumin. Analyst, The, 2020, 145, 5532-5538.	1.7	5
65	A symplectic integration method for elastic filaments. Journal of Chemical Physics, 2009, 130, 124909.	1.2	2
66	Capillary-assembled straight microfluidic devices. RSC Advances, 2014, 4, 1083-1086.	1.7	2
67	Discussion of "Analytical Solution for Dissolution-Timescale Reactive Transport in Fluid-Saturated Porous Rocks―by Chongbin Zhao, B. E. Hobbs, and A. Ord. International Journal of Geomechanics, 2019, 19, 07019003.	1.3	0