David Heyes

List of Publications by Year
in descending order

174 papers	4,009 citations	117625 34 h-index	168389 53 g-index
175 all docs	175 docs citations	175 times ranked	2294 citing authors

#	Article	IF	Citations
1	Intrinsic viscuit probability distribution functions for transport coefficients of liquids and solids. Journal of Chemical Physics, 2022, 156, 124501.	3.0	3
2	Viscuit and the fluctuation theorem investigation of shear viscosity by molecular dynamics simulations: The information and the noise. Journal of Chemical Physics, 2021, 154, 074503.	3.0	8
3	Shadow Hamiltonian in classical NVE molecular dynamics simulations involving Coulomb interactions. Journal of Chemical Physics, 2021, 154, 174102.	3.0	8
4	Application of cell models to the melting and sublimation lines of the Lennard-Jones and related potential systems. Physical Review E, 2021, 104, 044119.	2.1	7
5	Shadow Hamiltonian in classical NVE molecular dynamics simulations: A path to long time stability. Journal of Chemical Physics, 2020, 152, 024114.	3.0	20
6	Statistical Analysis and Molecular Dynamics Simulations of the Thermal Conductivity of Lennardâ€“Jones Solids Including Their Pressure and Temperature Dependencies. Physica Status Solidi (B): Basic Research, 2020, 257, 2000344.	1.5	3
7	Reentrant melting and multiple occupancy crystals of bounded potentials: Simple theory and direct observation by molecular dynamics simulations. Physical Review E, 2020, 102, 042102.	2.1	2
8	Single trajectory transport coefficients and the energy landscape by molecular dynamics simulations. Journal of Chemical Physics, 2020, 152, 194504.	3.0	7
9	A comprehensive study of the thermal conductivity of the hard sphere fluid and solid by molecular dynamics simulation. Physical Chemistry Chemical Physics, 2020, 22, 8834-8845.	2.8	14
10	Shear stress relaxation and diffusion in simple liquids by molecular dynamics simulations: Analytic expressions and paths to viscosity. Journal of Chemical Physics, 2019, 150, 174504.	3.0	20
11	Translational and rotational diffusion of rod shaped molecules by molecular dynamics simulations. Journal of Chemical Physics, 2019, 150, 184503.	3.0	16
12	Thermodynamic and dynamical properties of the hard sphere system revisited by molecular dynamics simulation. Physical Chemistry Chemical Physics, 2019, 21, 6886-6899.	2.8	48
13	Bounded inverse power potentials: Isomorphism and isosbestic points. Journal of Chemical Physics, 2019, 150, 144504.	3.0	1
14	Transport coefficients of the Lennard-Jones fluid close to the freezing line. Journal of Chemical Physics, 2019, 151, 204502.	3.0	28
15	Revisiting the Stokes-Einstein relation without a hydrodynamic diameter. Journal of Chemical Physics, 2019, 150, 021101.	3.0	69
16	10.1063/1.5095501.1. , 2019, , .		0
17	Communication: Simple liquidsâ€™ high-density viscosity. Journal of Chemical Physics, 2018, 148, 081101.	3.0	25
18	Thermodynamic curvature of soft-sphere fluids and solids. Physical Review E, 2018, 97, 022119.	2.1	9

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19	Comprehensive representation of the Lennard-Jones equation of state based on molecular dynamics simulation data. Journal of Chemical Physics, 2018, 148, 114505.	3.0	22
20	Advances in nonequilibrium molecular dynamics simulations of lubricants and additives. Friction, 2018, 6, 349-386.	6.4	118
21	Incremental viscosity by non-equilibrium molecular dynamics and the Eyring model. Journal of Chemical Physics, 2018, 148, 194506.	3.0	11
22	Chemical potential of a test hard sphere of variable size in hard-sphere fluid mixtures. Journal of Chemical Physics, 2018, 148, 214503.	3.0	6
23	Polyelectrolyte pK_afrom experiment and molecular dynamics simulation. RSC Advances, 2017, 7, 20007-20014.	3.6	18
24	Isotropic-nematic phase transition of uniaxial variable softness prolate and oblate ellipsoids. Journal of Chemical Physics, 2017, 146, 164505.	3.0	3
25	Towards the Irving-Kirkwood limit of the mechanical stress tensor. Journal of Chemical Physics, 2017, 146, 224109.	3.0	12
26	Nonâ€Equilibrium Phase Behavior of Confined Molecular Films at Low Shear Rates. Physica Status Solidi (B): Basic Research, 2017, 254, 1600862.	1.5	1
27	Representation of the direct correlation function of the hard-sphere fluid. Physical Review E, 2017, 95, 062104.	2.1	10
28	Nanowire Stretching by Nonâ€Equilibrium Molecular Dynamics. Physica Status Solidi (B): Basic Research, 2017, 254, 1600861.	1.5	2
29	On the effect of confined fluid molecular structure on nonequilibrium phase behaviour and friction. Physical Chemistry Chemical Physics, 2017, 19, 17883-17894.	2.8	51
30	Molecular Dynamics Studies of Overbased Detergents on a Water Surface. Langmuir, 2017, 33, 7263-7270.	3.5	5
31	The second virial coefficient of bounded Mie potentials. Journal of Chemical Physics, 2017, 147, 214504.	3.0	3
32	Equilibrium fluctuations of liquid state static properties in a subvolume by molecular dynamics. Journal of Chemical Physics, 2016, 145, 104504.	3.0	2
33	Non-equilibrium phase behavior and friction of confined molecular films under shear: A non-equilibrium molecular dynamics study. Journal of Chemical Physics, 2016, 145, 164704.	3.0	23
34	Spatially dependent diffusion coefficient as a model for pH sensitive microgel particles in microchannels. Biomicrofluidics, 2016, 10, 054118.	2.4	7
35	The second virial coefficient and critical point behavior of the Mie Potential. Journal of Chemical Physics, 2016, 145, 084505.	3.0	14
36	Chemical potential of a test hard sphere of variable size in a hard-sphere fluid. Journal of Chemical Physics, 2016, 145, 214504.	3.0	10

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37	The Lennard-Jones melting line and isomorphism. Journal of Chemical Physics, 2015, 143, 234504.	3.0	23
38	Scaling of Lennardâ€“Jones liquid elastic moduli, viscoelasticity and other properties along fluidâ€“solid coexistence. Physica Status Solidi (B): Basic Research, 2015, 252, 1514-1525.	1.5	26
39	Response of Calcium Carbonate Nanoparticles in Hydrophobic Solvent to Pressure, Temperature, and Water. Journal of Physical Chemistry C, 2015, 119, 16879-16888.	3.1	7
40	Second virial coefficient of rod-shaped molecules and molecular dynamics simulations of the isotropic phase. Physical Review E, 2015, 91, 042134.	2.1	5
41	Galilean-invariant NosÃ©-Hoover-type thermostats. Physical Review E, 2015, 91, 033312.	2.1	7
42	A molecular dynamics study of CaCO3 nanoparticles in a hydrophobic solvent with a stearate co-surfactant. Physical Chemistry Chemical Physics, 2015, 17, 13575-13581.	2.8	3
43	Binary mixtures of asymmetric continuous charge distributions: Molecular dynamics simulations and integral equations. Journal of Chemical Physics, 2015, 142, 074904.	3.0	0
44	A localized momentum constraint for non-equilibrium molecular dynamics simulations. Journal of Chemical Physics, 2015, 142, 074110.	3.0	7
45	The method of planes pressure tensor for a spherical subvolume. Journal of Chemical Physics, 2014, 140, 054506.	3.0	14
46	Boundary-controlled barostats for slab geometries in molecular dynamics simulations. Physical Review E, 2014, 90, 043302.	2.1	21
47	Self-Assembly of Calcium Carbonate Nanoparticles in Water and Hydrophobic Solvents. Journal of Physical Chemistry C, 2014, 118, 21092-21103.	3.1	7
48	Thermodynamic properties and entropy scaling law for diffusivity in soft spheres. Physical Review E, 2014, 90, 012106.	2.1	26
49	Role of Deprotonation Free Energies in pK_a Prediction and Molecule Ranking. Journal of Chemical Theory and Computation, 2014, 10, 2537-2545.	5.3	18
50	Traction and nonequilibrium phase behavior of confined sheared liquids at high pressure. Physical Review E, 2013, 88, 052406.	2.1	37
51	Lattice summations for spread out particles: Applications to neutral and charged systems. Journal of Chemical Physics, 2013, 138, 034504.	3.0	8
52	Pressure dependence of confined liquid behavior subjected to boundary-driven shear. Journal of Chemical Physics, 2012, 136, 134705.	3.0	40
53	Control-volume representation of molecular dynamics. Physical Review E, 2012, 85, 056705.	2.1	30
54	Single particle force distributions in simple fluids. Journal of Chemical Physics, 2012, 137, 094505.	3.0	7

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55	Cubic materials in different auxetic regions: Linking microscopic to macroscopic formulations. Physica Status Solidi (B): Basic Research, 2012, 249, 1373-1378.	1.5	34
56	Pair correlation function of soft-sphere fluids. Journal of Chemical Physics, 2011, 134, 064115.	3.0	15
57	Auxeticity of cubic materials under pressure. Physica Status Solidi (B): Basic Research, 2011, 248, 96-104.	1.5	67
58	The equivalence between volume averaging and method of planes definitions of the pressure tensor at a plane. Journal of Chemical Physics, 2011, 135, 024512.	3.0	37
59	Soft-sphere soft glasses. Journal of Chemical Physics, 2009, 131, 204506.	3.0	18
60	Rounded stretched exponential for time relaxation functions. Journal of Chemical Physics, 2009, 131, 214509.	3.0	10
61	Interactions between microgel particles. Soft Matter, 2009, 5, 2681.	2.7	110
62	Liquids at positive and negative pressure. Physica Status Solidi (B): Basic Research, 2008, 245, 530-538.	1.5	8
63	Thermodynamic and mechanical stability of many-body systems interacting with coarse-grained bounded potentials. Physica Status Solidi (B): Basic Research, 2008, 245, 2415-2421.	1.5	1
64	Self-diffusion coefficients and shear viscosity of inverse power fluids: from hard- to soft-spheres. Physical Chemistry Chemical Physics, 2008, 10, 4036.	2.8	23
65	Monte Carlo simulations of fluids whose particles interact with a logarithmic potential. Journal of Chemical Physics, 2008, 128, 134503.	3.0	2
66	Transport coefficients of soft repulsive particle fluids. Journal of Physics Condensed Matter, 2008, 20, 115102.	1.8	5
67	Stability of separation-shifted Lennard-Jones fluids. Journal of Chemical Physics, 2007, 126, 084510.	3.0	9
68	The stability of many-body systems. Journal of Physics Condensed Matter, 2007, 19, 416101.	1.8	19
69	Recent Advances in Moleculardynamics Computer Simulation. Advances in Chemical Physics, 2007, , 493-575.	0.3	53
70	System size dependence of the transport coefficients and Stokesâ€“Einstein relationship of hard sphere and Weeksâ€“Chandlerâ€“Andersen fluids. Journal of Physics Condensed Matter, 2007, 19, 376106.	1.8	28
71	Physical properties of soft repulsive particle fluids. Physical Chemistry Chemical Physics, 2007, 9, 5570.	2.8	20
72	Self-Diffusion Coefficient of the Hard-Sphere Fluid:Â System Size Dependence and Empirical Correlations. Journal of Physical Chemistry B, 2007, 111, 1455-1464.	2.6	79

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73	Evidence for a fragmentation mechanism during the formation of calcium carbonate organo-nano-particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 301, 184-188.	4.7	5
74	Equation of state and structural properties of the Weeks-Chandler-Andersen fluid. Journal of Chemical Physics, 2006, 124, 164507.	3.0	56
75	Percolation threshold of hard-sphere fluids in between the soft-core and hard-core limits. Molecular Physics, 2006, 104, 3137-3146.	1.7	29
76	Thermodynamic properties of inverse power fluids. Physical Review E, 2006, 74, 031202.	2.1	24
77	First derivative of the hard-sphere radial distribution function at contact. Journal of Physics Condensed Matter, 2006, 18, 7553-7558.	1.8	8
78	Some physical properties of the Weeksâ€“Chandlerâ€“Andersen fluid. Molecular Simulation, 2006, 32, 45-50.	2.0	24
79	Transport coefficients of soft sphere fluids. Physical Chemistry Chemical Physics, 2005, 7, 1220-1227.	2.8	14
80	The effects of particle softness on the dynamics of molecular and colloidal systems. Molecular Physics, 2005, 103, 2359-2373.	1.7	6
81	Mechanical, rheological and transport properties of soft particle fluids. Molecular Simulation, 2005, 31, 945-959.	2.0	10
82	Temperatures: old, new and middle aged. Molecular Physics, 2005, 103, 1361-1373.	1.7	60
83	The influence of potential softness on the transport coefficients of simple fluids. Journal of Chemical Physics, 2005, 122, 234504.	3.0	36
84	Discreteâ€“element method simulations: from micro to macro scales. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 1853-1865.	3.4	20
85	Static properties and time correlation functions of fluids with steeply repulsive potentials. Molecular Physics, 2004, 102, 2057-2070.	1.7	20
86	Time correlation functions of hard sphere and soft sphere fluids. Physical Review E, 2004, 69, 021202.	2.1	31
87	Equation of state of inverse power fluids. Molecular Physics, 2004, 102, 2049-2056.	1.7	6
88	The Newtonian viscosity of concentrated stabilized dispersions: Comparisons with the hard sphere fluid. Journal of Rheology, 2004, 48, 223-248.	2.6	20
89	Transport coefficients of hard sphere fluids. Molecular Physics, 2003, 101, 469-482.	1.7	91
90	Molecular Dynamics Simulations of Granular Compaction. Chemistry of Materials, 2003, 15, 3417-3430.	6.7	9

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91	Viscoelasticity of fluids with steeply repulsive potentials. Journal of Chemical Physics, 2003, 118, 11048-11056.	3.0	17
92	Molecular dynamics simulations of granular compaction: The single granule case. Journal of Chemical Physics, 2003, 118, 4636-4648.	3.0	13
93	Brownian dynamics simulations of attractive polymers in solution. Journal of Chemical Physics, 2002, 117, 2377-2388.	3.0	12
94	The collapsing bubble in a liquid by molecular dynamics simulations. Molecular Physics, 2002, 100, 3451-3468.	1.7	25
95	The velocity autocorrelation function and self-diffusion coefficient of fluids with steeply repulsive potentials. Molecular Physics, 2002, 100, 595-610.	1.7	29
96	Mesoscale modelling studies of microemulsions. Physical Chemistry Chemical Physics, 2001, 3, 5255-5265.	2.8	14
97	Overbased detergent particles: Experimental and molecular modelling studies. Physical Chemistry Chemical Physics, 2001, 3, 4774-4783.	2.8	21
98	Thermal conductivity of fluids with steeply repulsive potentials. Molecular Physics, 2001, 99, 1077-1089.	1.7	29
99	Overdamped Brownian motion in periodic symmetric potentials. Journal of Chemical Physics, 2000, 113, 9911-9919.	3.0	7
100	Experimental and molecular modelling studies of overbased detergent particles. Physical Chemistry Chemical Physics, 2000, 2, 5197-5207.	2.8	15
101	Viscoelastic behaviour of fluids with steeply repulsive potentials. Molecular Physics, 2000, 98, 917-927.	1.7	37
102	More efficient Brownian dynamics algorithms. Molecular Physics, 2000, 98, 1949-1960.	1.7	19
103	The effects of beadâ€“bead repulsion on the spacial and time correlation functions of model polymer solutions: Mesoscale simulations. Journal of Chemical Physics, 1999, 111, 10694-10705.	3.0	5
104	Relations Between Transport Coefficients in Lennardâ€“Jones Fluids and in Liquid Metals. International Journal of Thermophysics, 1999, 20, 267-277.	2.1	5
105	Rheology of transient colloidal gels by Brownian dynamics computer simulation. Journal of Rheology, 1999, 43, 219-244.	2.6	23
106	Calculation of nanocolloidal liquid time scales by molecular dynamics simulations. Molecular Physics, 1999, 96, 1757-1766.	1.7	9
107	Brownian Dynamics Computer Simulations of Quenched Lennard-Jones-like Fluids: I Morphology and Local Structural Evolution. Molecular Simulation, 1999, 23, 203-241.	2.0	3
108	Purely viscous fluids. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 1999, 455, 3725-3742.	2.1	32

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109	Stratification in poured granular heaps. Nature, 1998, 391, 136-136.	27.8	76
110	Self-diffusion coefficients and shear viscosity of model nanocolloidal dispersions by molecular dynamics simulation. Physical Review E, 1998, 58, 5845-5854.	2.1	21
111	Molecular dynamics simulations of stretched water: Local structure and spectral signatures. Journal of Chemical Physics, 1998, 108, 9039-9049.	3.0	35
112	Translational and rotational diffusion of model nanocolloidal dispersions by molecular dynamics simulations. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 1625-1632.	1.7	16
113	Translational and rotational diffusion of model nanocolloidal dispersions studied by molecular dynamics simulations. Journal of Physics Condensed Matter, 1998, 10, 10159-10178.	1.8	37
114	Thermodynamic, mechanical and transport properties of fluids with steeply repulsive potentials. Molecular Physics, 1998, 95, 259-267.	1.7	41
115	Dispersions of rodlike particles in shear flow by Brownian dynamics simulations. Journal of Chemical Physics, 1998, 109, 312-317.	3.0	12
116	Structural evolution of phase-separating model colloidal liquids by Brownian dynamics computer simulation. Journal of Chemical Physics, 1998, 109, 7567-7577.	3.0	26
117	Thermodynamics and elastic moduli of fluids with steeply repulsive potentials. Journal of Chemical Physics, 1997, 107, 1963-1969.	3.0	17
118	Interfacial Characterization of Succinimide Surfactants. Langmuir, 1997, 13, 5881-5893.	3.5	26
119	Theoretical Approaches to Thermal Conductivity in Liquids. Physics and Chemistry of Liquids, 1996, 33, 65-83.	1.2	10
120	Lattice Models of Growth of Aligned Dipolar Fluids. Physics and Chemistry of Liquids, 1996, 31, 109-125.	1.2	2
121	Self-diffusion of large solid clusters in a liquid by molecular dynamics simulation. Molecular Physics, 1996, 88, 1503-1516.	1.7	8
122	Brownian Dynamics Simulations of Domain Growth in Lennard-Jones Fluids. Molecular Simulation, 1996, 18, 155-177.	2.0	4
123	Brownian Dynamics Simulations of Aggregation and Gel Formation in Lennard-Jones Fluids. Physics and Chemistry of Liquids, 1996, 31, 209-230.	1.2	3
124	Atomistic Simulation of Overbased Detergent Inverse Micelles. Langmuir, 1996, 12, 2418-2424.	3.5	42
125	Self-diffusion of large solid clusters in a liquid by molecular dynamics simulation. Molecular Physics, 1996, 88, 1503-1516.	1.7	4
126	Physical Properties of Model Colloidal Liquids Using Brownian Dynamics Simulation. Physics and Chemistry of Liquids, 1995, 30, 113-134.	1.2	0

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127	Physico-chemical characterisation of oil-soluble overbased phenate detergents. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 687.	1.7	28
128	Brownian Dynamics Simulations of Colloidal Liquids: Hydrodynamics and Stress Relaxation. Molecular Simulation, 1995, 15, 327-341.	2.0	4
129	Stokesian Dynamics Simulations of Colloids Under Shear. Molecular Simulation, 1995, 15, 361-380.	2.0	3
130	Molecular and Brownian Dynamics Simulations of Self-Diffusion in Inverse Power Fluids. Physics and Chemistry of Liquids, 1994, 28, 95-115.	1.2	5
131	Elastic moduli of simple fluids with steeply repulsive potentials. Journal of Chemical Physics, 1994, 100, 2149-2153.	3.0	20
132	Brownian dynamics of suspensions of rodlike particles. Physical Review E, 1994, 50, 4810-4816.	2.1	12
133	Mechanical Properties of Liquids: Newtonian and Beyond. Physics and Chemistry of Liquids, 1994, 28, 1-27.	1.2	3
134	Growth of hexagonal string phases in sheared colloid simulation. Journal of Chemical Physics, 1994, 101, 6096-6100.	3.0	9
135	Dynamic moduli of concentrated dispersions by Brownian dynamics. Journal of Rheology, 1994, 38, 465-483.	2.6	13
136	Experiment and computer simulation of particulate suspensions under shear flow. Lubrication Science, 1994, 6, 327-335.	2.1	0
137	Brownian Dynamics Simulations of Model Near-Hard-Sphere Suspensions. Physics and Chemistry of Liquids, 1993, 26, 153-160.	1.2	1
138	Thermodynamic properties of planar squareâ€well dumbbell fluids: Monte Carlo simulations and perturbation theory. Journal of Chemical Physics, 1993, 99, 9882-9889.	3.0	2
139	Simulations of electrorheological and particle mixture suspensions: Agglomerate and layer structures. Journal of Chemical Physics, 1993, 98, 5873-5886.	3.0	80
140	Percolation of three-dimensional square-well fluid mixtures. Molecular Physics, 1992, 77, 29-44.	1.7	5
141	Molecular dynamics simulations of liquid binary mixtures: Partial properties of mixing and transport coefficients. Journal of Chemical Physics, 1992, 96, 2217-2227.	3.0	45
142	Chemical Potential, Partial Enthalpy and Partial Volume of Mixtures byNPTMolecular Dynamics. Molecular Simulation, 1992, 8, 227-238.	2.0	9
143	Partial Coordination Numbers of Square-Well Binary Fluid Mixtures. Physics and Chemistry of Liquids, 1992, 24, 205-221.	1.2	2
144	Equilibrium Molecular Dynamics Computer Simulations of the Transport Coefficients of Ar-CH₄Mixtures. Molecular Simulation, 1991, 7, 221-239.	2.0	4

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145	Transport Coefficients Of Arâ€”Kr Mixtures by Molecular Dynamics Computer Simulation. Physics and Chemistry of Liquids, 1991, 23, 123-149.	1.2	10
146	Collective Correlation Functions in Shear Flow: A Non-Equilibrium Molecular Dynamics and Group Theory Statistical Mechanics Treatment. Molecular Simulation, 1990, 4, 399-408.	2.0	7
147	Dynamical properties and transport coefficients of oneâ€dimensional Lennardâ€Jones fluids: A molecular dynamics study. Journal of Chemical Physics, 1990, 92, 1106-1116.	3.0	6
148	Microscopic Motion of Atoms in Simple Liquids at Equilibrium and with Shear Flow. Physics and Chemistry of Liquids, 1990, 22, 31-50.	1.2	9
149	Continuum Percolation of2Dand 3DSimple Fluids. Molecular Simulation, 1990, 5, 329-343.	2.0	2
150	Brownian Dynamics Simulations of Electro-Rheological Fluids, II. Molecular Simulation, 1990, 5, 293-306.	2.0	25
151	Experimental and Simulation Studies of Electro-rheology. Molecular Simulation, 1989, 4, 137-151.	2.0	14
152	Clustering of Particles in Colloidal and Molecular Fluids. Physics and Chemistry of Liquids, 1989, 19, 125-143.	1.2	1
153	Percolation cluster statistics of Lennard-Jones fluids. Molecular Physics, 1989, 66, 1057-1074.	1.7	38
154	Microscopic Simulation of Rheology: Molecular Dynamics Computations and Percolation theory. Molecular Simulation, 1989, 2, 281-300.	2.0	21
155	Lennard-Jones Elastic Moduli by Liquid Structure Integral Equations and Molecular Dynamics Computer Simulations. Physics and Chemistry of Liquids, 1989, 20, 115-130.	1.2	8
156	Molecular dynamics study and parametrisation of the infinite-frequency shear and compressional moduli of the Lennard-Jones fluid. Journal of the Chemical Society, Faraday Transactions 2, 1989, 85, 239.	1.1	3
157	Transport coefficients of Lennard-Jones fluids: A molecular-dynamics and effective-hard-sphere treatment. Physical Review B, 1988, 37, 5677-5696.	3.2	130
158	Transport coefficients of model simple liquids. A molecular-dynamics study and effective hard-sphere analysis. Journal of the Chemical Society, Faraday Transactions 2, 1988, 84, 705.	1.1	56
159	Correlation functions in Couette flow from group theory and molecular dynamics. Molecular Physics, 1988, 65, 1441-1453.	1.7	43
160	Large Timesteps in Molecular Dynamics Simulations. Molecular Simulation, 1988, 1, 277-297.	2.0	38
161	The rheology of gases. A molecular-dynamics study. Journal of the Chemical Society, Faraday Transactions 2, 1987, 83, 319.	1.1	16
162	Simulating macroscopic flows. Nature, 1987, 329, 390-391.	27.8	1

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163	Clustering and some other physical effects of van der Waals potentials. Molecular Physics, 1986, 59, 1369-1388.	1.7	29
164	Some physical consequences of large shear rates on simple liquids. Journal of Chemical Physics, 1986, 85, 997-1008.	3.0	44
165	Shear thinning and thickening of the Lennard-Jones liquid. A molecular dynamics study. Journal of the Chemical Society, Faraday Transactions 2, 1986, 82, 1365.	1.1	92
166	Transport coefficients of the Lennardâ€“Jones fluid by molecular dynamics. Canadian Journal of Physics, 1986, 64, 773-781.	1.1	22
167	Nonequilibrium molecular dynamics study of shear flow in soft disks. Journal of Chemical Physics, 1985, 83, 4760-4766.	3.0	63
168	Thermal conductivity and bulk viscosity of simple fluids. A molecular-dynamics study. Journal of the Chemical Society, Faraday Transactions 2, 1984, 80, 1363.	1.1	60
169	Self-diffusion and shear viscosity of simple fluids. A molecular-dynamics study. Journal of the Chemical Society, Faraday Transactions 2, 1983, 79, 1741.	1.1	99
170	Molecular dynamics simulations of ionic crystal films. Journal of Chemical Physics, 1983, 79, 4010-4028.	3.0	18
171	The Use of Line and Point Contacts in Determining Lubricant Rheology Under Low Slip Elastohydrodynamic Conditions. Journal of Lubrication Technology, 1983, 105, 280-287.	0.1	5
172	Nonlinear Shear Stress and Thermal Effects in Fully Flooded Elastohydrodynamic Line Contacts. Journal of Lubrication Technology, 1980, 102, 459-465.	0.1	5
173	Time dependent nonlinear shear stress effects in simple liquids: A molecular dynamics study. Journal of Chemical Physics, 1980, 73, 3987-3996.	3.0	126
174	Molecular dynamics computer simulation of surface properties of crystalline potassium chloride. Journal of the Chemical Society, Faraday Transactions 2, 1977, 73, 1485.	1.1	179