Andres Santos

List of Publications by Year
in descending order

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278	6,255	101496	123376
papers	citations	36 h-index	61 g-index

288	288	288	2036
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydrodynamics for granular flow at low density. Physical Review E, 1998, 58, 4638-4653.	0.8	417
2	Dissipative dynamics for hard spheres. Journal of Statistical Physics, 1997, 87, 1051-1066.	0.5	191
3	Computer simulation of uniformly heated granular fluids. Granular Matter, 2000, 2, 53-64.	1.1	155
4	Kinetic Theory of Gases in Shear Flows. , 2003, , .		144
5	Kinetic Models for Granular Flow. Journal of Statistical Physics, 1999, 97, 281-322.	0.5	122
6	A kinetic model for a multicomponent gas. Physics of Fluids A, Fluid Dynamics, 1989, 1, 380-383.	1.6	111
7	Radial distribution function for hard spheres. Physical Review A, 1991, 43, 5418-5423.	1.0	101
8	An accurate and simple equation of state for hard disks. Journal of Chemical Physics, 1995, 103, 4622-4625.	1.2	99
9	Fluid-driven metamorphism of the continental crust governed by nanoscale fluid flow. Nature Geoscience, 2017, 10, 685-690.	5.4	97
10	Inherent rheology of a granular fluid in uniform shear flow. Physical Review E, 2004, 69, 061303.	0.8	86
11	Diffusion coefficient and shear viscosity of rigid water models. Journal of Physics Condensed Matter, 2012, 24, 284117.	0.7	86
12	When the Hotter Cools More Quickly: Mpemba Effect in Granular Fluids. Physical Review Letters, 2017, 119, 148001.	2.9	85
13	Kinetic theory of simple granular shear flows of smooth hard spheres. Journal of Fluid Mechanics, 1999, 389, 391-411.	1.4	83
14	Monte Carlo simulation method for the Enskog equation. Physical Review E, 1996, 54, 438-444.	0.8	79
15	Model for nonequilibrium computer simulation methods. Physical Review A, 1986, 33, 459-466.	1.0	77
16	Perturbation analysis of a stationary nonequilibrium flow generated by an external force. Journal of Statistical Physics, 1994, 76, 1399-1414.	0.5	65
17	Equation of state of a multicomponentd-dimensional hard-sphere fluid. Molecular Physics, 1999, 96, 1-5.	0.8	61
18	Structure of hard-sphere metastable fluids. Physical Review E, 1996, 53, 4820-4826.	0.8	60

#	Article	IF	Citations
19	Kinetic model for the hard-sphere fluid and solid. Physical Review E, 1998, 57, 1644-1660.	0.8	60
20	Normal solutions of the Boltzmann equation for highly nonequilibrium Fourier flow and Couette flow. Physics of Fluids, 2006, 18, 017104.	1.6	57
21	Modified Sonine approximation for the Navierâ€“Stokes transport coefficients of a granular gas. Physica A: Statistical Mechanics and Its Applications, 2007, 376, 94-107.	1.2	57
22	PRELIMINARY COMMUNICATION Equation of state of a multicomponent d-dimensional hard-sphere fluid. Molecular Physics, 1999, 96, 1-5.	0.8	56
23	Practical Kinetic Model for Hard Sphere Dynamics. Physical Review Letters, 1996, 77, 1270-1273.	2.9	55
24	Simulation of the Enskog equation Ã la Bird. Physics of Fluids, 1997, 9, 2057-2060.	1.6	55
25	Pair correlation function of short-ranged square-well fluids. Journal of Chemical Physics, 2005, 122, 084510.	1.2	54
26	Ethene Dimerization on Zeolite-Hosted Ni Ions: Reversible Mobilization of the Active Site. ACS Catalysis, 2019, 9, 5645-5650.	5.5	54
27	Transport coefficients of d-dimensional inelastic Maxwell models. Physica A: Statistical Mechanics and Its Applications, 2003, 321, 442-466.	1.2	53
28	Structure of multi-component hard-sphere mixtures. Journal of Chemical Physics, 1998, 108, 3683-3693.	1.2	52
29	A model for the structure of squareâ€well fluids. Journal of Chemical Physics, 1994, 101, 2355-2364.	1.2	50
30	A Concise Course on the Theory of Classical Liquids. Lecture Notes in Physics, 2016, , .	0.3	50
31	Divergence of the Chapman-Enskog Expansion. Physical Review Letters, 1986, 56, 1571-1574.	2.9	49
32	Heat and momentum transport far from equilibrium. Physical Review A, 1987, 36, 2842-2849.	1.0	49
33	Contact values of the radial distribution functions of additive hard-sphere mixtures in d dimensions: A new proposal. Journal of Chemical Physics, 2002, 117, 5785-5793.	1.2	49
34	Large Mpemba-like effect in a gas of inelastic rough hard spheres. Physical Review E, 2019, 99, 060901.	0.8	45
35	Critical Behavior of a Heavy Particle in a Granular Fluid. Physical Review Letters, 2001, 86, 4823-4826.	2.9	41
36	Far from equilibrium velocity distribution of a dilute gas. Physica A: Statistical Mechanics and Its Applications, 1991, 174, 355-390.	1.2	40

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37	Kinetic model for steady heat flow. Physical Review A, 1986, 34, 5047-5050.	1.0	39
38	Equation of state of nonadditive d-dimensional hard-sphere mixtures. Journal of Chemical Physics, 2005, 122, 024514.	1.2	37
39	Structure of hard-hypersphere fluids in odd dimensions. Physical Review E, 2007, 76, 051202.	0.8	36
40	Analysis of nonlinear transport in Couette flow. Physical Review A, 1989, 40, 7165-7174.	1.0	35
41	A square-well model for the structural and thermodynamic properties of simple colloidal systems. Journal of Chemical Physics, 2001, 115, 2805-2817.	1.2	35
42	Radial distribution function for sticky hard-core fluids. Journal of Statistical Physics, 1993, 72, 703-720.	0.5	34
43	Nonlinear Poiseuille flow in a gas. Physics of Fluids, 1998, 10, 1021-1027.	1.6	34
44	The second and third Sonine coefficients of a freely cooling granular gas revisited. Granular Matter, 2009, 11, 157-168.	1.1	34
45	Role of roughness on the hydrodynamic homogeneous base state of inelastic spheres. Physical Review E, 2014, 89, 020202.	0.8	34
46	Simple effective rule to estimate the jamming packing fraction of polydisperse hard spheres. Physical Review E, 2014, 89, 040302.	0.8	34
47	Exact moment solution of the Boltzmann equation for uniform shear flow. Physica A: Statistical Mechanics and Its Applications, 1995, 213, 409-425.	1.2	33
48	Monte Carlo simulation of the Boltzmann equation for steady Fourier flow. Physical Review E, 1994, 49, 367-375.	0.8	32
49	Virial series for fluids of hard hyperspheres in odd dimensions. Journal of Chemical Physics, 2008, 129, 014510.	1.2	32
50	Velocity distribution for a gas with steady heat flow. Physical Review A, 1989, 39, 320-327.	1.0	31
51	Penetrable square-well fluids: Exact results in one dimension. Physical Review E, 2008, 77, 051206.	0.8	31
52	Nonlinear Couette Flow in a Low Density Granular Gas. Journal of Statistical Physics, 2001, 103, 1035-1068.	0.5	30
53	Exact steady-state solution of the Boltzmann equation: A driven one-dimensional inelastic Maxwell gas. Physical Review E, 2003, 68, 011305.	0.8	30
54	Equation of state of a seven-dimensional hard-sphere fluid. Percusâ€“Yevick theory and molecular-dynamics simulations. Journal of Chemical Physics, 2004, 120, 9113-9122.	1.2	30

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55	Class of consistent fundamental-measure free energies for hard-sphere mixtures. Physical Review E, 2012, 86, 040102.	0.8	30
56	Mpemba effect in molecular gases under nonlinear drag. Physics of Fluids, 2020, 32, .	1.6	30
57	Influence of nonconservative external forces on self-diffusion in dilute gases. Physica A: Statistical Mechanics and Its Applications, 1990, 163, 651-671.	1.2	29
58	Poiseuille flow driven by an external force. Physics of Fluids A, Fluid Dynamics, 1992, 4, 1273-1282.	1.6	29
59	Transport coefficients of a granular gas of inelastic rough hard spheres. Physical Review E, 2014, 90, 022205.	0.8	28
60	Sticky hard spheres beyond the Percus-Yevick approximation. Physical Review E, 1993, 48, 4599-4604.	0.8	27
61	Sonine approximation for collisional moments of granular gases of inelastic rough spheres. Physics of Fluids, 2011, 23, .	1.6	27
62	Shear-rate dependence of the viscosity for dilute gases. Physical Review A, 1989, 39, 3038-3040.	1.0	26
63	Radial distribution functions for a multicomponent system of sticky hard spheres. Journal of Chemical Physics, 1998, 109, 6814-6819.	1.2	26
64	Dynamics of a Hard Sphere Granular Impurity. Physical Review Letters, 2006, 97, 058001.	2.9	26
65	Alternative Approaches to the Equilibrium Properties of Hard-Sphere Liquids. Lecture Notes in Physics, 2008, , 183-245.	0.3	26
66	Energy Production Rates in Fluid Mixtures of Inelastic Rough Hard Spheres. Progress of Theoretical Physics Supplement, 2010, 184, 31-48.	0.2	26
67	Virial coefficients and equations of state for mixtures of hard discs, hard spheres and hard hyperspheres. Molecular Physics, 2001, 99, 1959-1972.	0.8	25
68	Nonequilibrium phase transition for a heavy particle in a granular fluid. Physical Review E, 2001, 64, 051305.	0.8	25
69	Heat capacity of square-well fluids of variable width. Molecular Physics, 2003, 101, 2981-2986.	0.8	25
70	Diffusion in bulk liquids: finite-size effects in anisotropic systems. Molecular Physics, 2015, 113, 2674-2679.	0.8	25
71	Structural and thermodynamic properties of hard-sphere fluids. Journal of Chemical Physics, 2020, 153, 120901.	1.2	25
72	Absence of criticality in the hypernetted chain equation for a truncated potential. Molecular Physics, 1986, 57, 149-160.	0.8	24

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73	Velocity distribution function of a dilute gas under uniform shear flow: Comparison between a Monte Carlo simulation method and the Bhatnagar-Gross-Krook equation. Physical Review A, 1990, 41, 810-815.	1.0	24
74	Is there a glass transition for dense hard-sphere systems?. Journal of Chemical Physics, 1998, 108, 1290-1291.	1.2	24
75	The penetrable-sphere fluid in the high-temperature, high-density limit. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 323, 427-433.	0.9	24
76	Structure of penetrable-rod fluids: Exact properties and comparison between Monte Carlo simulations and two analytic theories. Journal of Chemical Physics, 2006, 124, 074508.	1.2	24
77	Non-Newtonian Granular Hydrodynamics. What Do the Inelastic Simple Shear Flow and the Elastic Fourier Flow Have in Common?. Physical Review Letters, 2010, 104, 028001.	2.9	24
78	Bridging and depletion mechanisms in colloid-colloid effective interactions: A reentrant phase diagram. Journal of Chemical Physics, 2015, 142, 224905.	1.2	24
79	A heuristic radial distribution function for hard disks. Journal of Chemical Physics, 1993, 99, 2020-2023.	1.2	23
80	Comparison between the Boltzmann and BGK equations for uniform shear flow. Physica A: Statistical Mechanics and Its Applications, 1995, 213, 426-434.	1.2	23
81	Low-temperature and high-temperature approximations for penetrable-sphere fluids: Comparison with Monte Carlo simulations and integral equation theories. Physical Review E, 2007, 76, 021504.	0.8	23
82	Hilbert-class or â€˜â€˜normalâ€™â€™ solutions for stationary heat flow. Physical Review A, 1989, 39, 328-338.	1.0	22
83	Nonequilibrium entropy of a gas. Physical Review A, 1992, 45, 8566-8572.	1.0	22
84	Singular behavior of shear flow far from equilibrium. Physical Review Letters, 1993, 71, 3971-3974.	2.9	22
85	Combined heat and momentum transport in a dilute gas. Physics of Fluids, 1995, 7, 2858-2866.	1.6	22
86	Kinetic models for hard sphere dynamics. Physica A: Statistical Mechanics and Its Applications, 1997, 240, 212-220.	1.2	22
87	How â€œstickyâ€•are short-range square-well fluids?. Journal of Chemical Physics, 2006, 125, 074507.	1.2	22
88	Mpemba effect in inertial suspensions. Physical Review E, 2021, 103, 032901.	0.8	22
89	Demixing in binary mixtures of hard hyperspheres. Europhysics Letters, 2000, 52, 158-164.	0.7	21
90	An equation of state Ã la Carnahanâ€“Starling for a five-dimensional fluid of hard hyperspheres. Journal of Chemical Physics, 2000, 112, 10680-10681.	1.2	21

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91	Molecular dynamics and theory for the contact values of the radial distribution functions of hard-disk fluid mixtures. Journal of Chemical Physics, 2004, 121, 8458.	1.2	21
92	Uniform shear flow in dissipative gases: Computer simulations of inelastic hard spheres and frictional elastic hard spheres. Physical Review E, 2005, 72, 031309.	0.8	21
93	Contact values of the particle-particle and wall-particle correlation functions in a hard-sphere polydisperse fluid. Journal of Chemical Physics, 2005, 123, 234512.	1.2	21
94	Exact bulk correlation functions in one-dimensional nonadditive hard-core mixtures. Physical Review E, 2007, 76, 062201.	0.8	21
95	A branch-point approximant for the equation of state of hard spheres. Journal of Chemical Physics, 2009, 130, 214104.	1.2	21
96	Penetrable-square-well fluids: Analytical study and Monte Carlo simulations. Journal of Chemical Physics, 2009, 131, 124106.	1.2	21
97	Virial coefficients, thermodynamic properties, and fluid-fluid transition of nonadditive hard-sphere mixtures. Journal of Chemical Physics, 2010, 132, 204506.	1.2	21
98	Chemical-Potential Route: A Hidden Percus-Yevick Equation of State for Hard Spheres. Physical Review Letters, 2012, 109, 120601.	2.9	21
99	Note: Equation of state and the freezing point in the hard-sphere model. Journal of Chemical Physics, 2014, 140, 136101.	1.2	21
100	Structure of the square-shoulder fluid. Molecular Physics, 2011, 109, 987-995.	0.8	20
101	Janus fluid with fixed patch orientations: Theory and simulations. Journal of Chemical Physics, 2013, 138, 094904.	1.2	19
102	Steady state in a gas of inelastic rough spheres heated by a uniform stochastic force. Physics of Fluids, 2015, 27, .	1.6	19
103	A student-oriented derivation of a reliable equation of state for a hard-disc fluid. European Journal of Physics, 1998, 19, 281-286.	0.3	18
104	System of elastic hard spheres which mimics the transport properties of a granular gas. Physical Review E, 2005, 72, 031308.	0.8	18
105	Third and fourth degree collisional moments for inelastic Maxwell models. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 14927-14943.	0.7	18
106	Simple shear flow in inelastic Maxwell models. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P08021-P08021.	0.9	18
107	First-order Chapmanâ€“Enskog velocity distribution function in a granular gas. Physica A: Statistical Mechanics and Its Applications, 2007, 376, 75-93.	1.2	18
108	Monte Carlo simulation of nonlinear Couette flow in a dilute gas. Physics of Fluids, 2000, 12, 3060.	1.6	17

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109	Aging to non-Newtonian hydrodynamics in a granular gas. Europhysics Letters, 2007, 78, 24002.	0.7	17
110	Radial distribution function of penetrable sphere fluids to the second order in density. Physical Review E, 2007, 75, 021201.	0.8	17
111	Solutions of the moment hierarchy in the kinetic theory of Maxwell models. Continuum Mechanics and Thermodynamics, 2009, 21, 361-387.	1.4	17
112	On the relation between virial coefficients and the close-packing of hard disks and hard spheres. Journal of Chemical Physics, 2011, 134, 084502.	1.2	17
113	Hydrodynamic Burnett equations for inelastic Maxwell models of granular gases. Physical Review E, 2014, 89, 052201.	0.8	17
114	Critical behavior in the Percus-Yevick equation for a Lennard-Jones potential. Physical Review A, 1982, 26, 2993-2995.	1.0	16
115	Critical behaviour of an adhesive-hard-sphere model in the mean spherical approximation. Molecular Physics, 1987, 60, 113-119.	0.8	16
116	Poiseuille Flow in a Heated Granular Gas. Journal of Statistical Physics, 2004, 117, 901-928.	0.5	16
117	DSMC evaluation of the Navier-Stokes shear viscosity of a granular fluid. AIP Conference Proceedings, 2005, , .	0.3	16
118	Are the energy and virial routes to thermodynamics equivalent for hard spheres?. Molecular Physics, 2006, 104, 3411-3418.	0.8	16
119	Percus-Yevick theory for the structural properties of the seven-dimensional hard-sphere fluid. Journal of Chemical Physics, 2007, 126, 016101.	1.2	16
120	Depletion potential in the infinite dilution limit. Journal of Chemical Physics, 2008, 128, 134507.	1.2	16
121	Phase diagram of the penetrable-square-well model. Europhysics Letters, 2011, 93, 26002.	0.7	16
122	Multicomponent fluids of hard hyperspheres in odd dimensions. Physical Review E, 2011, 83, 011201.	0.8	16
123	Equation of state of polydisperse hard-disk mixtures in the high-density regime. Physical Review E, 2017, 96, 062603.	0.8	16
124	Nonlinear viscosity and velocity distribution function in a simple longitudinal flow. Physical Review E, 2000, 62, 6597-6607.	0.8	15
125	On the equivalence between the energy and virial routes to the equation of state of hard-sphere fluids. Journal of Chemical Physics, 2005, 123, 104102.	1.2	15
126	A numerical test of a high-penetrability approximation for the one-dimensional penetrable-square-well model. Journal of Chemical Physics, 2010, 133, 024101.	1.2	15

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127	Hydrodynamics of Inelastic Maxwell Models. Mathematical Modelling of Natural Phenomena, 2011, 6, 37-76.	0.9	15
128	Phase diagrams of Janus fluids with up-down constrained orientations. Journal of Chemical Physics, 2013, 139, 174902.	1.2	15
129	The critical region in the Percusâ€“Yevick approximation. A numerical study for a Lennardâ€Jones potential. Journal of Chemical Physics, 1982, 77, 5058-5064.	1.2	14
130	Transport properties in a binary mixture under shear flow. Physical Review E, 1995, 52, 3812-3820.	0.8	14
131	Monte Carlo simulation of the Boltzmann equation for uniform shear flow. Physics of Fluids, 1996, 8, 1981-1983.	1.6	14
132	On the radial distribution function of a hard-sphere fluid. Journal of Chemical Physics, 2006, 124, 236102.	1.2	14
133	Multicomponent fluid of hard spheres near a wall. Physical Review E, 2007, 75, 061201.	0.8	14
134	Thermodynamic consistency of energy and virial routes: An exact proof within the linearized Debyeâ€“HÃ¼ckel theory. Journal of Chemical Physics, 2009, 131, 181105.	1.2	14
135	The penetrable square-well model: extensive versus non-extensive phases. Molecular Physics, 2011, 109, 2723-2736.	0.8	14
136	Rational-function approximation for fluids interacting via piece-wise constant potentials. Condensed Matter Physics, 2012, 15, 23602.	0.3	14
137	Long Wavelength Instability for Uniform Shear Flow. Physical Review Letters, 1996, 76, 2702-2705.	2.9	13
138	Granular mixtures modeled as elastic hard spheres subject to a drag force. Physical Review E, 2007, 75, 061306.	0.8	13
139	Class of dilute granular Couette flows with uniform heat flux. Physical Review E, 2011, 83, 021302.	0.8	13
140	Structural properties of fluids interacting via piece-wise constant potentials with a hard core. Journal of Chemical Physics, 2013, 139, 074505.	1.2	13
141	Chemical-potential route for multicomponent fluids. Physical Review E, 2013, 87, 052138.	0.8	13
142	On the emergence of large and complex memory effects in nonequilibrium fluids. New Journal of Physics, 2019, 21, 033042.	1.2	13
143	Comparison between the homogeneous-shear and the sliding-boundary methods to produce shear flow. Physical Review A, 1992, 46, 8018-8020.	1.0	12
144	Nonlinear heat transport in a dilute gas in the presence of gravitation. Physical Review E, 1997, 56, 6729-6734.	0.8	12

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145	Does the Chapmanâ€“Enskog Expansion for Sheared Granular Gases Converge?. Physical Review Letters, 2008, 100, 078003.	2.9	12
146	Local and global properties of mixtures in one-dimensional systems. II. Exact results for the Kirkwoodâ€“Buff integrals. Journal of Chemical Physics, 2009, 131, 164512.	1.2	12
147	Nonadditive hard-sphere fluid mixtures: A simple analytical theory. Physical Review E, 2011, 84, 041201.	0.8	12
148	Depletion force in the infinite-dilution limit in a solvent of nonadditive hard spheres. Journal of Chemical Physics, 2014, 140, 244513.	1.2	12
149	The effective colloid interaction in the Asakuraâ€“Oosawa model. Assessment of non-pairwise terms from the virial expansion. Journal of Chemical Physics, 2015, 142, 224903.	1.2	12
150	Vapor-liquid equilibrium and equation of state of two-dimensional fluids from a discrete perturbation theory. Journal of Chemical Physics, 2018, 148, 194505.	1.2	12
151	Structural properties of the Jagla fluid. Physical Review E, 2018, 98, 012138.	0.8	12
152	Heat and momentum transport in a gaseous dilute solution. Physical Review E, 1993, 48, 256-262.	0.8	11
153	Singular Behavior of Shear Flow Far from Equilibrium. Physical Review Letters, 1994, 72, 1392-1392.	2.9	11
154	Nonlinear transport in a dilute binary mixture of mechanically different particles. Journal of Statistical Physics, 1994, 75, 797-816.	0.5	11
155	Nonequilibrium entropy of a sheared gas. Physica A: Statistical Mechanics and Its Applications, 1996, 225, 7-18.	1.2	11
156	Singular behavior of the velocity moments of a dilute gas under uniform shear flow. Physical Review E, 1996, 53, 1269-1272.	0.8	11
157	Viscometric effects in a dense hard-sphere fluid. Physica A: Statistical Mechanics and Its Applications, 1997, 240, 229-238.	1.2	11
158	Numerical study of the influence of gravity on the heat conductivity on the basis of kinetic theory. Physics of Fluids, 1999, 11, 3553-3559.	1.6	11
159	Structure of ternary additive hard-sphere fluid mixtures. Physical Review E, 2002, 66, 061203.	0.8	11
160	Demixing can occur in binary hard-sphere mixtures with negative nonadditivity. Physical Review E, 2005, 72, 010501.	0.8	11
161	Molecular dynamics simulation study of self-diffusion for penetrable-sphere model fluids. Physical Review E, 2010, 82, 051202.	0.8	11
162	Communication: Inferring the equation of state of a metastable hard-sphere fluid from the equation of state of a hard-sphere mixture at high densities. Journal of Chemical Physics, 2011, 135, 181102.	1.2	11

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163	Homogeneous Free Cooling State in Binary Granular Fluids of Inelastic Rough Hard Spheres. , 2011, , .		11
164	Note: An exact scaling relation for truncatable free energies of polydisperse hard-sphere mixtures. Journal of Chemical Physics, 2012, 136, 136102.	1.2	11
165	Steady base states for non-Newtonian granular hydrodynamics. Journal of Fluid Mechanics, 2013, 719, 431-464.	1.4	11
166	Energy nonequipartition in gas mixtures of inelastic rough hard spheres: The tracer limit. Physical Review E, 2017, 96, 052901.	0.8	11
167	Thermal versus entropic Mpemba effect in molecular gases with nonlinear drag. Physical Review E, 2022, 105, .	0.8	11
168	About the numerical solution of the Percusâ€“Yevick equation in the critical region for nontruncated potentials. Journal of Chemical Physics, 1983, 79, 4652-4653.	1.2	10
169	Direct correlation functions and bridge functions in additive hard-sphere mixtures. Molecular Physics, 2000, 98, 439-446.	0.8	10
170	Non-Newtonian Poiseuille flow of a gas in a pipe. Physica A: Statistical Mechanics and Its Applications, 2001, 289, 336-358.	1.2	10
171	Maxwellian gas undergoing a stationary Poiseuille flow in a pipe. Physica A: Statistical Mechanics and Its Applications, 2003, 327, 264-290.	1.2	10
172	Granular fluid thermostated by a bath of elastic hard spheres. Physical Review E, 2003, 67, 051101.	0.8	10
173	Chemical potential of a test hard sphere of variable size in a hard-sphere fluid. Journal of Chemical Physics, 2016, 145, 214504.	1.2	10
174	One-Dimensional Fluids with Second Nearestâ€“Neighbor Interactions. Journal of Statistical Physics, 2017, 169, 1171-1201.	0.5	10
175	Finite-size estimates of Kirkwood-Buff and similar integrals. Physical Review E, 2018, 98, .	0.8	10
176	Impact of roughness on the instability of a free-cooling granular gas. Physical Review E, 2018, 97, 052901.	0.8	10
177	Enskog kinetic theory of rheology for a moderately dense inertial suspension. Physical Review E, 2020, 102, 022907.	0.8	10
178	Comments on â€˜â€˜A generalized BKW solution of the nonlinear Boltzmann equation with removalâ€™â€™ [Phys. Fluids 27, 2599 (1984)]. Physics of Fluids, 1986, 29, 1750.	1.4	9
179	Analysis of the Evans and Baranyai variational principle in dilute gases. Physical Review Letters, 1993, 70, 2730-2733.	2.9	9
180	Stability of uniform shear flow. Physical Review E, 1998, 57, 546-556.	0.8	9

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181	Multicomponent fluid of nonadditive hard spheres near a wall. Physical Review E, 2013, 87, 042102.	0.8	9
182	Triangle-Well and Ramp Interactions in One-Dimensional Fluids: A Fully Analytic Exact Solution. Journal of Statistical Physics, 2019, 175, 269-288.	0.5	9
183	Exact solution of the Boltzmann equation in the homogeneous color conductivity problem. Journal of Statistical Physics, 1991, 65, 747-760.	0.5	8
184	Strong shock waves in a dense gas: Burnett theory versus Monte Carlo simulation. Physical Review E, 1998, 58, 7319-7324.	0.8	8
185	Simple and accurate theory for strong shock waves in a dense hard-sphere fluid. Physical Review E, 1999, 60, 7592-7595.	0.8	8
186	Title is missing!. Journal of Statistical Physics, 2002, 109, 1027-1050.	0.5	8
187	Test of a universality ansatz for the contact values of the radial distribution functions of hard-sphere mixtures near a hard wall. Molecular Physics, 2006, 104, 3461-3467.	0.8	8
188	Exact solution of the Percus-Yevick integral equation for fluid mixtures of hard hyperspheres. Physical Review E, 2011, 84, 041203.	0.8	8
189	Radial distribution function for hard spheres in fractal dimensions: A heuristic approximation. Physical Review E, 2016, 93, 062126.	0.8	8
190	Interplay between polydispersity, inelasticity, and roughness in the freely cooling regime of hard-disk granular gases. Physical Review E, 2018, 98, 012904.	0.8	8
191	Driven and undriven states of multicomponent granular gases of inelastic and rough hard disks or spheres. Granular Matter, 2019, 21, 1.	1.1	8
192	On the critical behavior of the Percusâ€“Yevick equation for nontruncated potentials. Journal of Chemical Physics, 1985, 82, 4312-4316.	1.2	7
193	Diffusion in a 2D bond percolation model. A Monte Carlo simulation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 127, 5-8.	0.9	7
194	Divergence of the nonlinear thermal conductivity in the homogeneous heat flow. Chemical Physics Letters, 1991, 177, 79-83.	1.2	7
195	Non-equilibrium phase transition in a binary mixture. Europhysics Letters, 1996, 33, 599-604.	0.7	7
196	Influence of gravity on nonlinear transport in the planar Couette flow. Physics of Fluids, 1999, 11, 893-904.	1.6	7
197	Equation of state of additive hard-disk fluid mixtures: A critical analysis of two recent proposals. Physical Review E, 2002, 66, 031202.	0.8	7
198	Thermodynamic consistency between the energy and virial routes in the mean spherical approximation for soft potentials. Journal of Chemical Physics, 2007, 126, 116101.	1.2	7

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199	An exact solution of the inelastic Boltzmann equation for the Couette flow with uniform heat flux. European Physical Journal: Special Topics, 2009, 179, 141-156.	1.2	7
200	Contact values for disparate-size hard-sphere mixtures. Molecular Physics, 2009, 107, 685-691.	0.8	7
201	A Bhatnagarâ€“Grossâ€“Krook-like Model Kinetic Equation for a Granular Gas of Inelastic Rough Hard Spheres. , 2011, , .		7
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