

Gary P Morriss

List of Publications by Year in descending order

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59
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citations

270111

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59
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docs citations

59
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	A review of the hydrodynamic Lyapunov modes of hard disk systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 254010.	0.7	14
2	Computing covariant Lyapunov vectors, Oseledets vectors, and dichotomy projectors: A comparative numerical study. <i>Physica D: Nonlinear Phenomena</i> , 2013, 247, 18-39.	1.3	37
3	Lyapunov Mode Dynamics in Hard-Disk Systems. <i>Journal of Statistical Physics</i> , 2008, 131, 1-31.	0.5	10
4	Thermal Contact. <i>Entropy</i> , 2008, 10, 786-798.	1.1	4
5	Time-Oscillating Lyapunov Modes and the Momentum Autocorrelation Function. <i>Physical Review Letters</i> , 2005, 94, 154101.	2.9	30
6	Large Fluctuations and Axiom-C Structures in Deterministically Thermostatted Systems. <i>Open Systems and Information Dynamics</i> , 2003, 10, 105-133.	0.5	17
7	Lyapunov Spectra of Periodic Orbits for a Many-Particle System. <i>Journal of Statistical Physics</i> , 2002, 109, 747-764.	0.5	25
8	Strong and Weak Damping in the Adiabatic Motion of the Simple Piston. <i>Journal of Statistical Physics</i> , 2002, 109, 549-568.	0.5	6
9	A dynamical partition function for the Lorentz gas. <i>Journal of Statistical Physics</i> , 1995, 80, 35-43.	0.5	10
10	Conjugate pairing in the three-dimensional periodic Lorentz gas. <i>Physical Review E</i> , 1995, 52, R5746-R5748.	0.8	12
11	Breakdown of ergodic behavior in the Lorentz gas. <i>Physical Review E</i> , 1994, 50, 3416-3421.	0.8	17
12	Correlation dimension of the sheared hard-disk Lorentz gas. <i>Journal of Statistical Physics</i> , 1994, 76, 1045-1063.	0.5	11
13	Probability of second law violations in shearing steady states. <i>Physical Review Letters</i> , 1993, 71, 2401-2404.	2.9	1,414
14	Conjugate-pairing rule and thermal-transport coefficients. <i>Physical Review A</i> , 1992, 45, 2233-2242.	1.0	59
15	A constraint algorithm for the computer simulation of complex molecular liquids. <i>Computer Physics Communications</i> , 1991, 62, 267-278.	3.0	32
16	Viscosity of a simple fluid from its maximal Lyapunov exponents. <i>Physical Review A</i> , 1990, 42, 5990-5997.	1.0	193
17	On the number dependence of viscosity in three dimensional fluids. <i>Molecular Physics</i> , 1989, 68, 637-646.	0.8	47
18	Nonlinear shear viscosity in two dimensions. <i>Physical Review A</i> , 1989, 39, 6335-6345.	1.0	15

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19	Linear response of phase-space trajectories to shearing. <i>Physical Review Letters</i> , 1989, 62, 1579-1582.	2.9	16
20	Phase-space singularities in planar Couette flow. <i>Physical Review A</i> , 1989, 39, 4811-4816.	1.0	23
21	Steady-state structure and dynamics of a two-dimensional conducting fluid. <i>Molecular Physics</i> , 1989, 67, 209-216.	0.8	17
22	Dimensional contraction in nonequilibrium systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 134, 307-313.	0.9	37
23	Shear induced anisotropy in two-dimensional liquids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1988, 149, 406-431.	1.2	28
24	Time-dependent response theory. <i>Molecular Physics</i> , 1988, 64, 521-534.	0.8	19
25	Yamada-Kawasaki distribution function. <i>Physical Review A</i> , 1988, 37, 3605-3608.	1.0	17
26	Transient-time-correlation functions and the rheology of fluids. <i>Physical Review A</i> , 1988, 38, 4142-4148.	1.0	45
27	Lyapunov dimension of two-body planar Couette flow. <i>Physical Review A</i> , 1988, 37, 2118-2124.	1.0	36
28	Local order in a dense liquid. <i>Physical Review A</i> , 1988, 38, 1628-1631.	1.0	14
29	An integral equation study of liquid acetonitrile. <i>Molecular Physics</i> , 1987, 61, 775-782.	0.8	11
30	Non-equilibrium molecular dynamics calculation of the shear viscosity of liquid rubidium. <i>Journal of Physics F: Metal Physics</i> , 1987, 17, 593-604.	1.6	12
31	Asymptotic nonlinear stress tensor in small periodic systems undergoing Couette flow. <i>Physical Review A</i> , 1987, 36, 4119-4122.	1.0	10
32	Application of transient correlation functions to shear flow far from equilibrium. <i>Physical Review A</i> , 1987, 35, 792-797.	1.0	83
33	Time correlation functions in the stress ensemble. <i>Molecular Physics</i> , 1987, 62, 419-428.	0.8	15
34	On the nonlinear Born effect. <i>Molecular Physics</i> , 1987, 62, 1357-1369.	0.8	37
35	The information dimension of the nonequilibrium distribution function. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1987, 122, 236-240.	0.9	28
36	Shear Thickening and Turbulence in Simple Fluids. <i>Physical Review Letters</i> , 1986, 56, 2172-2175.	2.9	212

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37	Solution of the SSOZ equation for molecules of arbitrary symmetry. <i>Molecular Physics</i> , 1986, 58, 745-761.	0.8	28
38	On the structure factor of dipolar molecular fluids. <i>Molecular Physics</i> , 1986, 57, 1233-1245.	0.8	9
39	Mixtures of polar and nonpolar molecules. <i>Molecular Physics</i> , 1986, 59, 911-919.	0.8	11
40	Shear flow in the two-body Boltzmann gas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1985, 113, 269-272.	0.9	13
41	Isothermal response theory. <i>Molecular Physics</i> , 1985, 54, 629-636.	0.8	99
42	Equilibrium-fluctuation expression for the resistance of a Norton circuit. <i>Physical Review A</i> , 1985, 31, 3817-3819.	1.0	16
43	Viscoelasticity in two dimensions. <i>Physical Review A</i> , 1985, 32, 2425-2430.	1.0	25
44	The phase behaviour of interaction site fluids. <i>Molecular Physics</i> , 1984, 52, 57-64.	0.8	14
45	Equilibrium time correlation functions under gaussian isothermal dynamics. <i>Chemical Physics</i> , 1984, 87, 451-454.	0.9	42
46	Nonlinear-response theory for steady planar Couette flow. <i>Physical Review A</i> , 1984, 30, 1528-1530.	1.0	321
47	Analytic studies of the hard dumbbell fluid. <i>Molecular Physics</i> , 1984, 51, 289-311.	0.8	13
48	Isothermal-isobaric molecular dynamics. <i>Chemical Physics</i> , 1983, 77, 63-66.	0.9	140
49	The isothermal/isobaric molecular dynamics ensemble. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1983, 98, 433-436.	0.9	166
50	Nonequilibrium Molecular-Dynamics Simulation of Couette Flow in Two-Dimensional Fluids. <i>Physical Review Letters</i> , 1983, 51, 1776-1779.	2.9	42
51	Integral equations for polar molecular fluids. <i>Molecular Physics</i> , 1983, 48, 181-191.	0.8	23
52	The dielectric constant of polar hard dumb-bells Dependence on molecular shape. <i>Molecular Physics</i> , 1982, 47, 833-848.	0.8	24
53	The dielectric constant of polar hard dumb-bells. <i>Molecular Physics</i> , 1982, 45, 1099-1112.	0.8	39
54	Analytic solution of the RISM equation for symmetric diatomics with Yukawa closure. <i>Molecular Physics</i> , 1981, 43, 1299-1309.	0.8	15

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55	Correlation functions for diatomic symmetric molecules from the RISM equation. Journal of Statistical Physics, 1981, 24, 607-616.	0.5	20
56	Polar hard dumb-bells and a RISM model for water. Molecular Physics, 1981, 43, 669-684.	0.8	33
57	Monte Carlo simulation results for the full pair correlation function of the hard dumbbell fluid. Molecular Physics, 1981, 43, 1471-1475.	0.8	19
58	The analytic structure of the RISM equation solution. Molecular Physics, 1980, 41, 1463-1469.	0.8	11
59	The solution of the RISM equation for diatomic symmetric molecules. Molecular Physics, 1979, 38, 465-475.	0.8	28