

Antonio Gonzalez

List of Publications by Year in descending order

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27
papers

450
citations

840776

11
h-index

713466

21
g-index

27
all docs

27
docs citations

27
times ranked

217
citing authors

#	ARTICLE	IF	CITATIONS
1	Density Functional Theory for Small Systems: Hard Spheres in a Closed Spherical Cavity. <i>Physical Review Letters</i> , 1997, 79, 2466-2469.	7.8	88
2	How the structure of a confined fluid depends on the ensemble: Hard spheres in a spherical cavity. <i>Journal of Chemical Physics</i> , 1998, 109, 3637-3650.	3.0	78
3	Density-Functional Theory of Inhomogeneous Fluids in the Canonical Ensemble. <i>Physical Review Letters</i> , 2000, 84, 1220-1223.	7.8	56
4	Density functional theory for hard-sphere fluids: a generating function approach. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 2375-2398.	1.8	30
5	Density functional theory of fluids in nanopores: Analysis of the fundamental measures theory in extreme dimensional-crossover situations. <i>Journal of Chemical Physics</i> , 2006, 125, 064703.	3.0	27
6	A computer-assisted experiment for the measurement of the temperature dependence of the speed of sound in air. <i>American Journal of Physics</i> , 2004, 72, 276-279.	0.7	19
7	Fluctuations in a small hard-disk system: Implicit finite size effects. <i>Journal of Chemical Physics</i> , 1999, 110, 9821-9824.	3.0	16
8	The extended variable space approach to density functional theory in the canonical ensemble. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 11907-11919.	1.8	14
9	The "adiabatic" piston at equilibrium: Spectral analysis and time-correlation function. <i>Europhysics Letters</i> , 2002, 59, 479-485.	2.0	14
10	Fluctuations in the number of particles of the ideal gas: A simple example of explicit finite-size effects. <i>American Journal of Physics</i> , 1999, 67, 1149-1151.	0.7	12
11	Heat capacity of an ideal gas along an elliptical PV cycle. <i>American Journal of Physics</i> , 2002, 70, 1044-1048.	0.7	11
12	Density profiles of a hard disk mixture inside a small circular cavity: Effect of the conservation of the total angular momentum. <i>Journal of Chemical Physics</i> , 2003, 118, 7930-7936.	3.0	9
13	Thermodynamic and Cost Analysis of a Solar Dish Power Plant in Spain Hybridized with a Micro-Gas Turbine. <i>Energies</i> , 2020, 13, 5178.	3.1	9
14	Microcanonical ensemble study of a gas column under gravity. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1997, 104, 353-361.	1.1	8
15	Density functional theory of long-range critical wetting. <i>Physical Review E</i> , 2000, 62, 6571-6576.	2.1	8
16	Density functional theory of fluids in the isothermal-isobaric ensemble. <i>Journal of Chemical Physics</i> , 2004, 120, 10634-10639.	3.0	8
17	Finite-size effects in the microscopic structure of a hard-sphere fluid in a narrow cylindrical pore. <i>Journal of Chemical Physics</i> , 2006, 124, 154708.	3.0	8
18	Generating function density functional theory: free-energy functionals and direct correlation functions for hard-spheres. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 296, 347-363.	2.6	6

#	ARTICLE	IF	CITATIONS
19	Periodic boundary conditions and the correct molecular-dynamics ensemble. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 6705-6711.	2.6	6
20	On the calculation of the single-particle momentum and energy distributions for a hard-core fluid in the microcanonical molecular dynamics ensemble. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 234, 53-75.	2.6	5
21	A test-particle method for the calculation of the three-particle distribution function of the hard-sphere fluid: density functional theory and simulation. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 3789-3798.	1.8	4
22	Velocity distributions for a hard-disk fluid in a small circular cavity: effect of the conservation of the total angular momentum. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 334, 312-326.	2.6	4
23	Entropic selectivity of binary mixtures in cylindrical pores. <i>Journal of Chemical Physics</i> , 2011, 135, 154704.	3.0	4
24	Microcanonical ensemble study of a classical fluid of hard rods under gravity. <i>European Physical Journal B</i> , 1999, 7, 421-427.	1.5	3
25	A simple method for measuring atmospheric pressure. <i>American Journal of Physics</i> , 2002, 70, 1236-1237.	0.7	2
26	The speed of sound in a hard disk gas: A computer simulation. <i>American Journal of Physics</i> , 2002, 70, 847-851.	0.7	1
27	Microcanonical density of states of a hard-particle fluid under gravity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 267, 375-391.	2.6	0