Orlando GuzmÃ¡n

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4543099/publications.pdf

Version: 2024-02-01

32	448	623734	713466
papers	citations	14	21
		h-index	g-index

32	32	32	483
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Anisotropic nanoparticles immersed in a nematic liquid crystal: Defect structures and potentials of mean force. Physical Review E, 2006, 74, 011711.	2.1	63
2	Interactions between spherical colloids mediated by a liquid crystal: A molecular simulation and mesoscale study. Journal of Chemical Physics, 2004, 121, 1949-1961.	3.0	49
3	Measuring liquid crystal elastic constants with free energy perturbations. Soft Matter, 2014, 10, 882-893.	2.7	42
4	Measurement of the Azimuthal Anchoring Energy of Liquid Crystals in Contact with Oligo(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Langmuir, 2006, 22, 4654-4659.	3.5	31
5	Theoretically informed Monte Carlo simulation of liquid crystals by sampling of alignment-tensor fields. Journal of Chemical Physics, 2015, 143, 044107.	3.0	22
6	Interactions of Liquid Crystal-Forming Molecules with Phospholipid Bilayers Studied by Molecular Dynamics Simulations. Biophysical Journal, 2005, 89, 3141-3158.	0.5	20
7	Analytical equation of state with three-body forces: Application to noble gases. Journal of Chemical Physics, 2013, 139, 184503.	3.0	20
8	Anchoring Energies of Liquid Crystals Measured on Surfaces Presenting Oligopeptides. Langmuir, 2006, 22, 7776-7782.	3.5	19
9	Sculpted grain boundaries in soft crystals. Science Advances, 2019, 5, eaax9112.	10.3	18
10	An effective-colloid pair potential for Lennard-Jones colloidâ€“polymer mixtures. Journal of Chemical Physics, 2003, 118, 2392-2397.	3.0	17
11	Effective intermolecular potentials in theoretical thermodynamics of pure substances and solutions. Fluid Phase Equilibria, 2007, 259, 9-22.	2.5	17
12	Self-assembly of kagome lattices, entangled webs and linear fibers with vibrating patchy particles in two dimensions. Soft Matter, 2014, 10, 9167-9176.	2.7	17
13	Effective potential for three-body forces in fluids. Molecular Physics, 2011, 109, 955-967.	1.7	16
14	Third virial coefficient of nonpolar gases from accurate binary potentials and ternary forces. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 3989-4003.	1.5	15
15	High-precision virial coefficients of argon and carbon dioxide from integration of speed of sound data in the pressureâ€“temperature domain. Molecular Physics, 2012, 110, 1349-1358.	1.7	12
16	Free-energy model for nanoparticle self-assembly by liquid crystal sorting. Physical Review E, 2018, 97, 062704.	2.1	11
17	An Integral Equation and Monte Carlo Study of Square-Well Fluid Mixtures. The Journal of Physical Chemistry, 1995, 99, 1587-1593.	2.9	10
18	Control of Monodomain Polymer-Stabilized Cuboidal Nanocrystals of Chiral Nematics by Confinement. ACS Nano, 2021, 15, 15972-15981.	14.6	10

#	Article	IF	Citations
19	Theoretical Equation of State of Dense Nonconformal Fluids from Effective Potentials. 1. Applications to Model Systems. Journal of Physical Chemistry B, 2001, 105, 8220-8229.	2.6	8
20	Global square-well free-energy model via singular value decomposition. Molecular Physics, 2018, 116, 2070-2082.	1.7	7
21	Liquidâ€“Vapor Equilibria of Ionic Liquids from a SAFT Equation of State with Explicit Electrostatic Free Energy Contributions. Journal of Physical Chemistry B, 2015, 119, 5864-5872.	2.6	5
22	Phase-shift symmetries of the correlation and bridge functions in additive hard sphere mixtures. Molecular Physics, 1998, 95, 645-648.	1.7	3
23	Room temperature ionic liquids: A simple model. Effect of chain length and size of intermolecular potential on critical temperature. Journal of Chemical Physics, 2015, 142, 154508.	3.0	3
24	Nucleation and growth of blue phase liquid crystals on chemically-patterned surfaces: a surface anchoring assisted blue phase correlation length. Molecular Systems Design and Engineering, 2021, 6, 534-544.	3.4	3
25	Boundary-layer method for the analytical calculation of stable textures of bent-core liquid crystal fibers. Physical Review E, 2011, 84, 011701.	2.1	2
26	Systematic prediction of critical point coordinates from molecular parameters of equations of state and interaction potentials. Molecular Physics, 2012, 110, 1261-1267.	1.7	2
27	Steric contribution of macromolecular crowding to the time and activation energy for preprotein translocation across the endoplasmic reticulum membrane. Physical Review E, 2013, 88, 012725.	2.1	2
28	Specific inter-domain interactions stabilize a compact HIV-1 Gag conformation. PLoS ONE, 2019, 14, e0221256.	2.5	2
29	Self-assembling and phase coexistence of SW trimers as complex amphiphile analogues. I. Simulations. Molecular Physics, 2020, 118, e1726519.	1.7	1
30	Dynamics of Nanoparticle Self-Assembly by Liquid Crystal Sorting in Two Dimensions. Frontiers in Physics, 2021, 9, .	2.1	1
31	Third Virial Coefficients of Mixtures from a Model of Two- and Three-body Forces. , 2010, , .		0
32	Multiscale Simulation of Liquid Crystals. NATO Science Series Series II, Mathematics, Physics and Chemistry, 2005, , 221-247.	0.1	0