Orlando GuzmÃ¡n

List of Publications by Year
in descending order

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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	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
2	Dynamics of Nanoparticle Self-Assembly by Liquid Crystal Sorting in Two Dimensions. Frontiers in Physics, 2021, 9, .	2.1	1
3	Control of Monodomain Polymer-Stabilized Cuboidal Nanocrystals of Chiral Nematics by Confinement. ACS Nano, 2021, 15, 15972-15981.	14.6	10
4	Self-assembling and phase coexistence of SW trimers as complex amphiphile analogues. I. Simulations. Molecular Physics, 2020, 118, e1726519.	1.7	1
5	Specific inter-domain interactions stabilize a compact HIV-1 Gag conformation. PLoS ONE, 2019, 14, e0221256.	2.5	2
6	Sculpted grain boundaries in soft crystals. Science Advances, 2019, 5, eaax9112.	10.3	18
7	Global square-well free-energy model via singular value decomposition. Molecular Physics, 2018, 116, 2070-2082.	1.7	7
8	Free-energy model for nanoparticle self-assembly by liquid crystal sorting. Physical Review E, 2018, 97, 062704.	2.1	11
9	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
10	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
11	Theoretically informed Monte Carlo simulation of liquid crystals by sampling of alignment-tensor fields. Journal of Chemical Physics, 2015, 143, 044107.	3.0	22
12	Measuring liquid crystal elastic constants with free energy perturbations. Soft Matter, 2014, 10, 882-893.	2.7	42
13	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
14	Analytical equation of state with three-body forces: Application to noble gases. Journal of Chemical Physics, 2013, 139, 184503.	3.0	20
15	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
16	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
17	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
18	Effective potential for three-body forces in fluids. Molecular Physics, 2011, 109, 955-967.	1.7	16

#	Article	IF	Citations
19	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
20	Third Virial Coefficients of Mixtures from a Model of Two- and Three-body Forces. , 2010, , .		0
21	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
22	Effective intermolecular potentials in theoretical thermodynamics of pure substances and solutions. Fluid Phase Equilibria, 2007, 259, 9-22.	2.5	17
23	Anisotropic nanoparticles immersed in a nematic liquid crystal: Defect structures and potentials of mean force. Physical Review E, 2006, 74, 011711.	2.1	63
24	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
25	Anchoring Energies of Liquid Crystals Measured on Surfaces Presenting Oligopeptides. Langmuir, 2006, 22, 7776-7782.	3.5	19
26	Interactions of Liquid Crystal-Forming Molecules with Phospholipid Bilayers Studied by Molecular Dynamics Simulations. Biophysical Journal, 2005, 89, 3141-3158.	0.5	20
27	Multiscale Simulation of Liquid Crystals. NATO Science Series Series II, Mathematics, Physics and Chemistry, 2005, , 221-247.	0.1	0
28	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
29	An effective-colloid pair potential for Lennard-Jones colloidâ€“polymer mixtures. Journal of Chemical Physics, 2003, 118, 2392-2397.	3.0	17
30	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
31	Phase-shift symmetries of the correlation and bridge functions in additive hard sphere mixtures. Molecular Physics, 1998, 95, 645-648.	1.7	3
32	An Integral Equation and Monte Carlo Study of Square-Well Fluid Mixtures. The Journal of Physical Chemistry, 1995, 99, 1587-1593.	2.9	10