Gerardo Odriozola

List of Publications by Year
in descending order

80	1,308	394286 19	454834 30
papers	citations	h-index	g-index

82	82	82	1084
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Extended law of corresponding states: square-well oblates. Journal of Physics Condensed Matter, 2022, 34, 104002.	0.7	2
2	The role of the second virial coefficient in the vapor-liquid phase coexistence of anisotropic square-well particles. Journal of Molecular Liquids, 2022, 360, 119528.	2.3	1
3	Enhanced two-dimensional nematic order in slit-like pores. New Journal of Physics, 2021, 23, 063053.	1.2	7
4	Anisotropy-independent packing of confined hard ellipses. Journal of Molecular Liquids, 2021, 333, 115896.	2.3	8
5	Scaling Laws in the Diffusive Release of Neutral Cargo from Hollow Hydrogel Nanoparticles: Paclitaxel-Loaded Poly(4-vinylpyridine). ACS Nano, 2020, 14, 15227-15240.	7.3	15
6	A coil-to-globule transition capable coarse-grained model for poly(N-isopropylacrylamide). Physical Chemistry Chemical Physics, 2020, 22, 17913-17921.	1.3	7
7	Three-step melting of hard superdisks in two dimensions. Physical Review E, 2020, 102, 062603.	0.8	9
8	Ordering, clustering, and wetting of hard rods in extreme confinement. Physical Review Research, 2020, 2, .	1.3	13
9	Effect of Temperature on the Cononsolvency of Poly(N-isopropylacrylamide) (PNIPAM) in Aqueous 1-Propanol. ACS Applied Polymer Materials, 2019, 1, 2961-2972.	2.0	19
10	P-NIPAM in waterâ€“acetone mixtures: experiments and simulations. Physical Chemistry Chemical Physics, 2019, 21, 5106-5116.	1.3	17
11	Molecular dynamics simulations of brine-surfactant lamellas surrounded by nitrogen at different reservoir conditions. Journal of Molecular Liquids, 2018, 256, 480-488.	2.3	2
12	Ethane clathrates using different waterâ€“ethane models: Molecular dynamics. Physica A: Statistical Mechanics and Its Applications, 2018, 491, 89-100.	1.2	1
13	Massive replica exchange Monte Carlo algorithm: a tool to access high pressure thermodynamics of hard systems. Physical Chemistry Chemical Physics, 2018, 20, 27490-27500.	1.3	6
14	Phase diagram of hard squares in slit confinement. Scientific Reports, 2018, 8, 8886.	1.6	13
15	Competition between excluded-volume and electrostatic interactions for nanogel swelling: effects of the counterion valence and nanogel charge. Physical Chemistry Chemical Physics, 2017, 19, 6838-6848.	1.3	31
16	Colloid-polymer mixtures under slit confinement. Journal of Chemical Physics, 2017, 146, 104903.	1.2	6
17	Equivalence between particles and fields: A general statistical mechanics theory for short and long range manyâ€body forces. Fortschritte Der Physik, 2017, 65, 1600072.	1.5	5
18	Conformation change of an isotactic poly (N-isopropylacrylamide) membrane: Molecular dynamics. Journal of Chemical Physics, 2017, 146, 194905.	1.2	22

#	Article	IF	Citations
19	Critical behavior of hard squares in strong confinement. Physical Review E, 2017, 95, 042610.	0.8	6
20	Phase behaviour of short range triangle well fluids: A comparison with lysozyme suspensions. Journal of Molecular Liquids, 2017, 225, 723-729.	2.3	4
21	Anomalous structural transition of confined hard squares. Physical Review E, 2016, 94, 050603.	0.8	9
22	Thermodynamic properties of triangle-well fluids in two dimensions: MC and MD simulations. Journal of Chemical Physics, 2016, 145, 174505.	1.2	8
23	Entropy Driven Self-Assembly in Charged Lockâ€“Key Particles. Journal of Physical Chemistry B, 2016, 120, 5966-5974.	1.2	8
24	Parallel Replica Exchange Monte Carlo Applied to Hard Systems. Communications in Computer and Information Science, 2016, , 392-418.	0.4	0
25	Effect of orientational restriction on monolayers of hard ellipsoids. Physical Chemistry Chemical Physics, 2016, 18, 4547-4556.	1.3	10
26	Using a Parallel Genetic Algorithm to Fit a Pulsed Townsend Discharge Simulation to Experiments. Communications in Computer and Information Science, 2016, , 343-355.	0.4	2
27	Corresponding states law for a generalized Lennard-Jones potential. Journal of Chemical Physics, 2015, 143, 024504.	1.2	17
28	A heuristic rule for classification of classical fluids: Master curves for Mie, Yukawa and square-well potentials. Chemical Physics Letters, 2015, 631-632, 26-29.	1.2	18
29	Wallâ€“particle interactions and depletion forces in narrow slits. Current Opinion in Colloid and Interface Science, 2015, 20, 24-31.	3.4	5
30	Coexistence and interfacial properties of a triangle-well mimicking the Lennard-Jones fluid and a comparison with noble gases. Journal of Chemical Physics, 2015, 142, 074706.	1.2	6
31	Phase diagram of two-dimensional hard ellipses. Journal of Chemical Physics, 2014, 140, 204502.	1.2	45
32	Empty liquid phase of colloidal ellipsoids: The role of shape and interaction anisotropy. Journal of Chemical Physics, 2014, 140, 134905.	1.2	10
33	Coexistence and interfacial properties of triangle-well fluids. Molecular Physics, 2014, 112, 2114-2121.	0.8	13
34	Simple effective rule to estimate the jamming packing fraction of polydisperse hard spheres. Physical Review E, 2014, 89, 040302.	0.8	34
35	Towards understanding the empty liquid of colloidal platelets: vapourâ€“liquid phase coexistence of square-well oblate ellipsoids. Soft Matter, 2013, 9, 5277.	1.2	18
36	Empty liquid state and self-assembly of high valence non-spherical colloidal systems. Soft Matter, 2013, 9, 11178.	1.2	10

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37	Structure and coexistence properties of shoulderâ€“square well fluids. Journal of Molecular Liquids, 2013, 185, 70-75.	2.3	2
38	Statistical Mechanics Approach to Lock-Key Supramolecular Chemistry Interactions. Physical Review Letters, 2013, 110, 105701.	2.9	30
39	Constant-force approach to discontinuous potentials. Journal of Chemical Physics, 2013, 138, 214105.	1.2	18
40	Further details on the phase diagram of hard ellipsoids of revolution. Journal of Chemical Physics, 2013, 138, 064501.	1.2	41
41	Expansion of Natural Na⁺â€“ and Ca²⁺â€“Montmorillonites in the Presence of NaCl and Surfactant Solutions. Energy & Fuels, 2012, 26, 2578-2584.	2.5	6
42	Revisiting the phase diagram of hard ellipsoids. Journal of Chemical Physics, 2012, 136, 134505.	1.2	60
43	Ion-specific colloidal aggregation: Population balance equations and potential of mean force. Journal of Chemical Physics, 2011, 135, 134704.	1.2	4
44	Entropy effects in self-assembling mechanisms: Also a view from the information theory. Journal of Molecular Liquids, 2011, 164, 87-100.	2.3	11
45	Assisted crystal growing by tempering metastable vaporâ€“liquid fluids. Chemical Physics Letters, 2011, 501, 466-469.	1.2	5
46	Equilibrium equation of state of a hard sphere binary mixture at very large densities using replica exchange Monte Carlo simulations. Journal of Chemical Physics, 2011, 134, 054504.	1.2	30
47	Vaporâ€“liquid surface tension of strong short-range Yukawa fluid. Journal of Chemical Physics, 2011, 134, 154702.	1.2	12
48	Communication: Equation of state of hard oblate ellipsoids by replica exchange Monte Carlo. Journal of Chemical Physics, 2011, 134, 201103.	1.2	8
49	Hard ellipsoids: Analytically approaching the exact overlap distance. Journal of Chemical Physics, 2011, 135, 084508.	1.2	11
50	Phase behaviour and separation kinetics of symmetric non-additive hard discs. Molecular Simulation, 2010, 36, 175-185.	0.9	6
51	Ion-induced reversibility in the aggregation of hydrophobic colloids. Soft Matter, 2010, 6, 1114.	1.2	12
52	Stability mechanisms for plate-like nanoparticles immersed in a macroion dispersion. Journal of Physics Condensed Matter, 2009, 21, 424107.	0.7	10
53	Replica exchange Monte Carlo applied to hard spheres. Journal of Chemical Physics, 2009, 131, 144107.	1.2	24
54	Population Inversion of a NAHS Mixture Adsorbed into a Cylindrical Pore. Journal of Physical Chemistry C, 2008, 112, 18028-18033.	1.5	16

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55	Entropy driven key-lock assembly. Journal of Chemical Physics, 2008, 129, 111101.	1.2	43
56	Linking Phase Behavior and Reversible Colloidal Aggregation at Low Concentrations:Â Simulations and Stochastic Mean Field Theory. Journal of Physical Chemistry B, 2007, 111, 5564-5572.	1.2	17
57	Aggregation kinetics of latex microspheres in alcoholâ€“water media. Journal of Colloid and Interface Science, 2007, 310, 471-480.	5.0	12
58	Electrolyte distribution around two like-charged rods: Their effective attractive interaction and angular dependent charge reversal. Journal of Chemical Physics, 2006, 124, 134902.	1.2	31
59	Two rods confined by positive plates: effective forces and charge distribution profiles. Journal of Physics Condensed Matter, 2006, 18, S2335-S2352.	0.7	6
60	Effect of Confinement on the Interaction between Two Like-Charged Rods. Physical Review Letters, 2006, 97, 018102.	2.9	20
61	Stability of Ca-montmorillonite hydrates: A computer simulation study. Journal of Chemical Physics, 2005, 123, 174708.	1.2	15
62	Stability of K-Montmorillonite Hydrates:Â Hybrid MC Simulations. Journal of Chemical Theory and Computation, 2005, 1, 1211-1220.	2.3	15
63	Brownian dynamics simulations of Laponite colloid suspensions. Physical Review E, 2004, 70, 021405.	0.8	42
64	Irreversible versus reversible aggregation: Mean field theory and experiments. Journal of Chemical Physics, 2004, 121, 5468-5481.	1.2	17
65	Na-montmorillonite hydrates under ethane rich reservoirs: NPzzT and Î¼PzzT simulations. Journal of Chemical Physics, 2004, 121, 4266-4275.	1.2	17
66	Colloidal aggregation with sedimentation: concentration effects. European Physical Journal E, 2004, 13, 165-178.	0.7	19
67	Coupled aggregation and sedimentation processes: stochastic mean field theory. Physica A: Statistical Mechanics and Its Applications, 2004, 335, 35-46.	1.2	7
68	Na-Montmorillonite Hydrates under Basin Conditions:Â Hybrid Monte Carlo and Molecular Dynamics Simulations. Langmuir, 2004, 20, 2010-2016.	1.6	29
69	Simulated Reversible Aggregation Processes for Different Interparticle Potentials: The Cluster Aging Phenomenon. Journal of Physical Chemistry B, 2003, 107, 2180-2188.	1.2	17
70	Modeling the aggregation of partially covered particles: Theory and simulation. Physical Review E, 2003, 68, 011404.	0.8	15
71	Coupled aggregation and sedimentation processes: The sticking probability effect. Physical Review E, 2003, 67, 031401.	0.8	14
72	Constant bond breakup probability model for reversible aggregation processes. Physical Review E, 2002, 65, 031405.	0.8	40

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73	Coupled aggregation and sedimentation processes: Three-dimensional off-lattice simulations. European Physical Journal E, 2002, 7, 153-161.	0.7	1
74	Title is missing!. European Physical Journal E, 2002, 7, 153-161.	0.7	12
75	The DLCA-RLCA transition arising in 2D-aggregation: simulations and mean field theory. European Physical Journal E, 2001, 5, 471-480.	0.7	25
76	A Light Scattering Study of the Transition Region between Diffusion- and Reaction-Limited Cluster Aggregation. Journal of Colloid and Interface Science, 2001, 240, 90-96.	5.0	49
77	A probabilistic aggregation kernel for the computer-simulated transition from DLCA to RLCA. Europhysics Letters, 2001, 53, 797-803.	0.7	58
78	The kinetics of irreversible aggregation processes. , 2001, , 87-90.		1
79	Multiple contact kernel for diffusionlike aggregation. Physical Review E, 2000, 62, 8335-8343.	0.8	39
80	Dynamic scaling concepts applied to numerical solutions of Smoluchowskiâ€™s rate equation. Journal of Chemical Physics, 1999, 111, 7657-7667.	1.2	31