Marcelo Lozada-Cassou

List of Publications by Year
in descending order

64	1,902	236925 25	254184 43
papers	citations	h-index	g-index

65	65	65	925
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Overcharging in Colloids: Beyond the Poisson-Boltzmann Approach. ChemPhysChem, 2003, 4, 234-248.	2.1	182
2	A simple theory for the force between spheres immersed in a fluid. Journal of Colloid and Interface Science, 1986, 114, 180-183.	9.4	174
3	Overcharging of DNA in the Presence of Salt:Â Theory and Simulation. Journal of Physical Chemistry B, 2001, 105, 10983-10991.	2.6	117
4	A Model Macroion Solution Next to a Charged Wall:Â Overcharging, Charge Reversal, and Charge Inversion by Macroions. Journal of Physical Chemistry B, 2004, 108, 7286-7296.	2.6	89
5	The spherical double layer: a hypernetted chain mean spherical approximation calculation for a model spherical colloid particle. The Journal of Physical Chemistry, 1989, 93, 3761-3768.	2.9	87
6	Nonlinear effects in the electrophoresis of a spherical colloidal particle. Physical Review E, 1999, 60, R17-R20.	2.1	71
7	The electrical double layer for a fully asymmetric electrolyte around a spherical colloid: An integral equation study. Journal of Chemical Physics, 2005, 123, 034703.	3.0	66
8	Overcharging and charge reversal in the electrical double layer around the point of zero charge. Journal of Chemical Physics, 2010, 132, 054903.	3.0	62
9	Violation of the electroneutrality condition in confined charged fluids. Physical Review E, 1996, 53, 522-530.	2.1	61
10	The application of the hypernetted chain approximation to the electrical double layer. Comparison with Monte Carlo results for 2:1 and 1:2 salts. The Journal of Physical Chemistry, 1983, 87, 2821-2824.	2.9	56
11	Exact numerical solution to the integral equation version of the Poissonâ€"Boltzmann equation, for two interacting spherical colloidal particles. Chemical Physics Letters, 1992, 190, 202-208.	2.6	55
12	Monte Carlo and HNC/MSA results for an asymmetrical electrolyte in an external electrical field of spherical geometry. Molecular Physics, 1995, 86, 759-768.	1.7	53
13	A new correlation effect in the Helmholtz and surface potentials of the electrical double layer. Journal of Chemical Physics, 2004, 120, 9782-9792.	3.0	53
14	Primitive Model Electrophoresis. Journal of Colloid and Interface Science, 2001, 239, 285-295.	9.4	49
15	Entropy driven key-lock assembly. Journal of Chemical Physics, 2008, 129, 111101.	3.0	43
16	The statistical mechanics of the electric double layer. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1983, 150, 291-303.	0.1	42
17	Hypernetted chain theory for the distribution of ions around a cylindrical electrode. The Journal of Physical Chemistry, 1983, 87, 3729-3732.	2.9	39
18	Charge Separation in Confined Charged Fluids. Physical Review Letters, 1997, 79, 3656-3659.	7.8	32

#	Article	IF	Citations
19	Simple Model for Semipermeable Membrane:â€‰Donnan Equilibrium. Journal of Physical Chemistry B, 2004, 108, 1719-1730.	2.6	32
20	Electrolyte distribution around two like-charged rods: Their effective attractive interaction and angular dependent charge reversal. Journal of Chemical Physics, 2006, 124, 134902.	3.0	31
21	Statistical Mechanics Approach to Lock-Key Supramolecular Chemistry Interactions. Physical Review Letters, 2013, 110, 105701.	7.8	30
22	On the regimes of charge reversal. Journal of Chemical Physics, 2008, 128, 174701.	3.0	29
23	The force between two planar electrical double layers. Some numerical results. Chemical Physics Letters, 1986, 127, 392-397.	2.6	28
24	Correlation of Charged Fluids Separated by a Wall. Physical Review Letters, 1996, 77, 4019-4022.	7.8	28
25	Nanocap-Shaped Tin Phthalocyanines: Synthesis, Characterization, and Corrosion Inhibition Activity. Chemistry - A European Journal, 2005, 11, 2705-2715.	3.3	25
26	Temperature dependence of the primitive-model double-layer differential capacitance: a hypernetted chain/mean spherical approximation calculation. The Journal of Physical Chemistry, 1988, 92, 6408-6413.	2.9	24
27	Low momentum scattering of the Dirac particlewith an asymmetric cusp potential. European Physical Journal C, 2006, 45, 525-528.	3.9	23
28	A comparison of numerical methods for solving nonlinear integral equations found in liquid theories. Journal of Computational Physics, 1989, 84, 326-342.	3.8	22
29	The Î¶-potential for a concentrated colloidal dispersion: The colloidal primitive model vs. the cell model. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 376, 59-66.	4.7	19
30	Monte Carlo simulation of a charged fluid separated by a charged wall of finite thickness. Physical Review E, 1998, 57, 2978-2983.	2.1	17
31	Effect of pore geometry on a confined hard sphere fluid. Molecular Physics, 1996, 88, 1317-1336.	1.7	16
32	Population Inversion of a NAHS Mixture Adsorbed into a Cylindrical Pore. Journal of Physical Chemistry C, 2008, 112, 18028-18033.	3.1	16
33	Modified Colloidal Primitive Model as a Homogeneous Surface Charge Distribution: Î¶-Potential. Journal of Physical Chemistry B, 2013, 117, 11812-11829.	2.6	16
34	Electrokinetic transport coefficients for confined electrolytes: ionic concentration effect. The Journal of Physical Chemistry, 1993, 97, 4780-4785.	2.9	15
35	Violation of the electroneutrality condition in confined unsymmetrical electrolytes. Physica A: Statistical Mechanics and Its Applications, 1996, 231, 197-206.	2.6	14
36	Molecular dynamics of a hard-sphere fluid between two walls: a comparison with the three-point extension hypernetted chain approximation. Chemical Physics Letters, 1990, 175, 111-116.	2.6	13

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37	Ion pairing in model electrolytes: A study via three-particle correlation functions. Journal of Chemical Physics, 2003, 119, 4842-4856.	3.0	13
38	Polarity Inversion of Î¶-Potential in Concentrated Colloidal Dispersions. Journal of Physical Chemistry B, 2011, 115, 12094-12097.	2.6	13
39	Van der Waals-Like Isotherms in a Confined Electrolyte by Spherical and Cylindrical Nanopores. Journal of Physical Chemistry B, 2007, 111, 2033-2044.	2.6	12
40	Comparison of zeta potentials and structure for statistical mechanical theories of a model cylindrical double layer. Journal of Molecular Liquids, 2018, 270, 157-167.	4.9	12
41	Liquid correlation across the walls in a slit pore: Effect on the wetting and drying transition. Physical Review E, 2002, 65, 061702.	2.1	11
42	Entropy effects in self-assembling mechanisms: Also a view from the information theory. Journal of Molecular Liquids, 2011, 164, 87-100.	4.9	11
43	Correlation of charged fluids separated by a wall of finite thickness: Dependence on the charge of the fluid and the wall. Physical Review E, 1997, 56, 2958-2965.	2.1	10
44	Stability mechanisms for plate-like nanoparticles immersed in a macroion dispersion. Journal of Physics Condensed Matter, 2009, 21, 424107.	1.8	10
45	Outsized Amplitude-Modulated Structure of Very-Long-Range Charge Inversions in Model Colloidal Dispersions. Journal of Physical Chemistry B, 2018, 122, 7002-7008.	2.6	9
46	Long-range forces and charge inversions in model charged colloidal dispersions at finite concentration. Advances in Colloid and Interface Science, 2019, 270, 54-72.	14.7	9
47	Entropy Driven Self-Assembly in Charged Lockâ€“Key Particles. Journal of Physical Chemistry B, 2016, 120, 5966-5974.	2.6	8
48	Comparison of Monte Carlo and HNC/MSA excess charge adsorption isotherms for an electrical double layer containing divalent ions. The Journal of Physical Chemistry, 1983, 87, 4547-4548.	2.9	7
49	Reversed electrophoretic mobility of a spherical colloid in the Modified Poisson-Boltzmann approach. Journal of Molecular Liquids, 2017, 228, 160-167.	4.9	7
50	Comparison of the non-linear Poissonâ€“Boltzmann approximation with Monte Carlo results for the primitive model of an electrolyte. Journal of the Chemical Society, Faraday Transactions 2, 1985, 81, 457-461.	1.1	5
51	Equivalence between particles and fields: A general statistical mechanics theory for short and long range manyâ€body forces. Fortschritte Der Physik, 2017, 65, 1600072.	4.4	5
52	Optical characterization of polyethylene and cobalt phthalocyanine ultrathin films by means of the ATR technique at surface plasmon resonance. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2506-2512.	1.8	4
53	Electrokinetic properties of monovalent electrolytes confined in charged nanopores: Effect of geometry and ionic short-range correlations. Journal of Colloid and Interface Science, 2009, 330, 474-482.	9.4	4
54	Very long-range attractive and repulsive forces in model colloidal dispersions. European Physical Journal: Special Topics, 2019, 227, 2375-2390.	2.6	4

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55	Effect of pore geometry on a confined hard sphere fluid. Molecular Physics, 1996, 88, 1317-1336.	1.7	4
56	Fluidâ€“Fluid Correlation through a Model Charged Membrane: Analytical Results. Journal of Colloid and Interface Science, 2002, 254, 141-152.	9.4	3
57	Violation of the local electroneutrality condition in an inhomogeneous macroions solution. European Physical Journal: Special Topics, 2021, 230, 1113-1120.	2.6	2
58	Effect of the ionic charge on the transport properties of electrolytes through narrow pores. Computational and Theoretical Chemistry, 1994, 304, 121-127.	1.5	1
59	Periodic precursors of nonlinear dynamical transitions. Physical Review E, 2004, 70, 026214.	2.1	1
60	Acoustic behavior of ordered droplets in a liquid: A phase space approach. Physical Review E, 2005, 71, 036603.	2.1	1
61	Special Issue in Molecular Engineering. Molecular Physics, 2001, 99, 1159-1159.	1.7	0
62	Special Issue in Molecular Engineering. Molecular Physics, 2001, 99, 1233-1233.	1.7	0
63	Applied Statistical Physics Molecular Engineering Conference. Molecular Physics, 2002, 100, 2909-2909.	1.7	0
64	About the effective thermal and optical parameters of a two-layer structure in photothermal phenomena. European Physical Journal Special Topics, 2005, 125, 157-160.	0.2	0