Guillermo Ivan Guerrero-Garcia

List of Publications by Year
in descending order

30	748	17	27
papers	citations	h-index	g-index
		471509	526287

30	30	30	717
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of the ionic size-asymmetry around a charged nanoparticle: unequal charge neutralization and electrostatic screening. Soft Matter, 2010, 6, 2056.	2.7	70
2	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
3	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
4	Potential of mean force between identical charged nanoparticles immersed in a size-asymmetric monovalent electrolyte. Journal of Chemical Physics, 2011, 135, 164705.	3.0	39
5	A Graphics Processing Unit Implementation of Coulomb Interaction in Molecular Dynamics. Journal of Chemical Theory and Computation, 2010, 6, 3058-3065.	5.3	38
6	Entropic effects in the electric double layer of model colloids with size-asymmetric monovalent ions. Journal of Chemical Physics, 2011, 135, 054701.	3.0	36
7	Effective charges and virial pressure of concentrated macroion solutions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9242-9246.	7.1	36
8	Large Counterions Boost the Solubility and Renormalized Charge of Suspended Nanoparticles. ACS Nano, 2013, 7, 9714-9723.	14.6	35
9	Charged hydrophobic colloids at an oilâ€“aqueous phase interface. Physical Review E, 2015, 92, 062306.	2.1	33
10	Polarization Effects of Dielectric Nanoparticles in Aqueous Charge-Asymmetric Electrolytes. Journal of Physical Chemistry B, 2014, 118, 8854-8862.	2.6	31
11	Electrolyte-Mediated Assembly of Charged Nanoparticles. ACS Central Science, 2016, 2, 219-224.	11.3	31
12	Simulational and theoretical study of the spherical electrical double layer for a size-asymmetric electrolyte: The case of big coions. Physical Review E, 2009, 80, 021501.	2.1	28
13	Inversion of the Electric Field at the Electrified Liquidâ€“Liquid Interface. Journal of Chemical Theory and Computation, 2013, 9, 1-7.	5.3	28
14	An exact method to obtain effective electrostatic interactions from computer simulations: The case of effective charge amplification. Journal of Chemical Physics, 2013, 139, 064709.	3.0	25
15	Enhancing and reversing the electric field at the oilâ€“water interface with size-asymmetric monovalent ions. Soft Matter, 2013, 9, 6046.	2.7	25
16	Excluded volume and ion-ion correlation effects on the ionic atmosphere around B-DNA: Theory, simulations, and experiments. Journal of Chemical Physics, 2014, 141, 225103.	3.0	24
17	Quantifying the thickness of the electrical double layer neutralizing a planar electrode: the capacitive compactness. Physical Chemistry Chemical Physics, 2018, 20, 262-275.	2.8	24
18	Expansion and shrinkage of the electrical double layer in charge-asymmetric electrolytes: A non-linear Poisson-Boltzmann description. Journal of Molecular Liquids, 2019, 277, 104-114.	4.9	18

#	Article	IF	Citations
19	The non-dominance of counterions in charge-asymmetric electrolytes: non-monotonic precedence of electrostatic screening and local inversion of the electric field by multivalent coions. Physical Chemistry Chemical Physics, 2016, 18, 21852-21864.	2.8	17
20	Coulomb interactions in charged fluids. Physical Review E, 2011, 84, 016707.	2.1	13
21	The dominance of small ions in the electric double layer of size- and charge-asymmetric electrolytes: a mean-field study on the charge reversal and surface charge amplification. Molecular Physics, 2015, 113, 1190-1205.	1.7	13
22	Understanding the interfacial behavior of lysozyme on Au (111) surfaces with multiscale simulations. Applied Physics Letters, 2017, 110, .	3.3	9
23	An experimental/theoretical method to measure the capacitive compactness of an aqueous electrolyte surrounding a spherical charged colloid. Journal of Chemical Physics, 2018, 148, 154703.	3.0	9
24	Control of Selective Ion Transfer across Liquidâ€“Liquid Interfaces: A Rectifying Heterojunction Based on Immiscible Electrolytes. ACS Central Science, 2016, 2, 857-866.	11.3	8
25	On the expected value of the electrostatic potential produced by a charged electrode neutralized by a Coulombic fluid: The capacitive compactness. Journal of Chemical Physics, 2021, 154, 096101.	3.0	8
26	On the non-dominance of counterions in the 1:<i>z</i> planar electrical double layer of point-ions. Molecular Physics, 2021, 119, .	1.7	7
27	Size and/or charge asymmetry effects in coulombic fluids in the presence of external fields: From simple electrolytes to molten salts. Biophysical Chemistry, 2022, 282, 106747.	2.8	6
28	Local inversion of the mean electrostatic potential, maximum charge reversal, and capacitive compactness of concentrated 1:1 salts: The crucial role of the ionic excluded volume and ion correlations. Journal of Molecular Liquids, 2022, 361, 119566.	4.9	5
29	On the Time Transition Between Short- and Long-Time Regimes of Colloidal Particles in External Periodic Potentials. Frontiers in Physics, 2021, 9, .	2.1	3
30	Activation energy, spatial confinement, and mean first passage and escape times of a tracer in awormlike micellar fluid: an effective potential approach. Journal of Physics Condensed Matter, 2022, , .	1.8	1