

Alexandre Diehl

List of Publications by Year in descending order

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33
papers

1,243
citations

393982

19
h-index

395343

33
g-index

33
all docs

33
docs citations

33
times ranked

1157
citing authors

#	ARTICLE	IF	CITATIONS
1	Ions at the Air-Water Interface: An End to a Hundred-Year-Old Mystery?. <i>Physical Review Letters</i> , 2009, 103, 257802.	2.9	277
2	Surface Tensions, Surface Potentials, and the Hofmeister Series of Electrolyte Solutions. <i>Langmuir</i> , 2010, 26, 10778-10783.	1.6	187
3	Charge renormalization and phase separation in colloidal suspensions. <i>Europhysics Letters</i> , 2001, 53, 86-92.	0.7	67
4	Smoluchowski equation and the colloidal charge reversal. <i>Journal of Chemical Physics</i> , 2006, 125, 054902.	1.2	62
5	Counterion correlations and attraction between like-charged macromolecules. <i>Physical Review E</i> , 2001, 64, 011804.	0.8	51
6	Density-functional theory for attraction between like-charged plates. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 274, 433-445.	1.2	49
7	Colloidal charge renormalization in suspensions containing multivalent electrolyte. <i>Journal of Chemical Physics</i> , 2010, 132, 104105.	1.2	46
8	Scaling behavior in explosive fragmentation. <i>Physical Review E</i> , 2000, 62, 4742-4746.	0.8	45
9	Effective charge of colloidal particles. <i>Journal of Chemical Physics</i> , 2004, 121, 12100-12103.	1.2	44
10	Diffusion enhancement in core-softened fluid confined in nanotubes. <i>Journal of Chemical Physics</i> , 2012, 137, 084504.	1.2	40
11	Relation Between Flow Enhancement Factor and Structure for Core-Softened Fluids Inside Nanotubes. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7047-7056.	1.2	40
12	Electrostatic correlations in colloidal suspensions: Density profiles and effective charges beyond the Poisson-Boltzmann theory. <i>Journal of Chemical Physics</i> , 2009, 130, 124110.	1.2	37
13	Thermodynamics of ionic microgels. <i>Physical Review E</i> , 2002, 65, 036143.	0.8	36
14	Colloidal charge reversal: Dependence on the ionic size and the electrolyte concentration. <i>Journal of Chemical Physics</i> , 2008, 129, 124506.	1.2	30
15	Ion fluxes through nanopores and transmembrane channels. <i>Physical Review E</i> , 2012, 85, 031914.	0.8	30
16	Interaction between random heterogeneously charged surfaces in an electrolyte solution. <i>Journal of Chemical Physics</i> , 2015, 142, 194707.	1.2	26
17	Charge Regulation of Colloidal Particles: Theory and Simulations. <i>Physical Review Letters</i> , 2019, 123, 208004.	2.9	24
18	Enhanced flow of core-softened fluids through narrow nanotubes. <i>Journal of Chemical Physics</i> , 2014, 140, 194504.	1.2	23

#	ARTICLE	IF	CITATIONS
19	Phase transitions and tricriticality in the lattice restricted primitive model supplemented by short-range interactions. <i>Journal of Chemical Physics</i> , 2003, 118, 4993-4998.	1.2	19
20	Neutral polyampholyte in an ionic solution. <i>Physical Review E</i> , 1996, 54, 6516-6525.	0.8	18
21	Surface tension of an electrolyte-air interface: a Monte Carlo study. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 284115.	0.7	18
22	Sine-Gordon mean field theory of a Coulomb gas. <i>Physical Review E</i> , 1997, 56, 619-622.	0.8	17
23	Phase diagrams in the lattice restricted primitive model: From order-disorder to gas-liquid phase transition. <i>Physical Review E</i> , 2005, 71, 046118.	0.8	11
24	Flexible polyelectrolyte conformation in the presence of oppositely charged surfactants. <i>Physical Review E</i> , 2007, 76, 041807.	0.8	7
25	Statistics versus dynamics: two methods for calculating the effective charge of colloidal particles. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S3309-S3316.	0.7	6
26	Adsorption isotherms of charged nanoparticles. <i>Soft Matter</i> , 2016, 12, 8528-8533.	1.2	6
27	Isothermal adsorption of polyampholytes on charged nanopatterned surfaces. <i>Journal of Chemical Physics</i> , 2019, 151, 084101.	1.2	6
28	Melting of a colloidal crystal. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 247, 235-246.	1.2	5
29	Effect of monovalent salt on the conformation of polyelectrolyte-surfactant complexes. <i>Physical Review E</i> , 2009, 79, 011805.	0.8	5
30	Reply to "Comment on "Scaling behavior in explosive fragmentation" ". <i>Physical Review E</i> , 2002, 65, .	0.8	4
31	Phase behavior of the lattice restricted primitive model with nearest neighbor exclusion. <i>Journal of Chemical Physics</i> , 2006, 124, 194509.	1.2	4
32	MASS DISTRIBUTION OF A TWO-DIMENSIONAL FRAGMENTATION PROCESS. <i>International Journal of Modern Physics C</i> , 2005, 16, 253-258.	0.8	2
33	Flexible polyelectrolyte conformation in the presence of cationic and anionic surfactants. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 438, 436-446.	1.2	1