

Alan Denton

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61
papers

3,590
citations

24
h-index

59
g-index

64
ext. papers

3,906
ext. citations

3
avg, IF

5.51
L-index

#	Paper	IF	Citations
61	Vegard's law. <i>Physical Review A</i> , 1991 , 43, 3161-3164	2.6	1665
60	Modified weighted-density-functional theory of nonuniform classical liquids. <i>Physical Review A</i> , 1989 , 39, 4701-4708	2.6	273
59	Weighted-density-functional theory of nonuniform fluid mixtures: Application to freezing of binary hard-sphere mixtures. <i>Physical Review A</i> , 1990 , 42, 7312-7329	2.6	127
58	High-order direct correlation functions of uniform classical liquids. <i>Physical Review A</i> , 1989 , 39, 426-429	2.6	124
57	Finite-size effects in molecular dynamics simulations: Static structure factor and compressibility. I. Theoretical method. <i>Physical Review E</i> , 1996 , 53, 2382-2389	2.4	122
56	Counterion penetration and effective electrostatic interactions in solutions of polyelectrolyte stars and microgels. <i>Physical Review E</i> , 2003 , 67, 011804	2.4	116
55	Weighted-density-functional theory of nonuniform fluid mixtures: Application to the structure of binary hard-sphere mixtures near a hard wall. <i>Physical Review A</i> , 1991 , 44, 8242-8248	2.6	88
54	Solid-phase structures of the dzugutov pair potential. <i>Physical Review E</i> , 2000 , 61, 6845-57	2.4	63
53	Stability of Colloidal Quasicrystals. <i>Physical Review Letters</i> , 1998 , 81, 469-472	7.4	60
52	Effective interactions and volume energies in charged colloids: linear response theory. <i>Physical Review E</i> , 2000 , 62, 3855-64	2.4	58
51	Density-functional approach to the structure of classical uniform fluids. <i>Physical Review A</i> , 1991 , 44, 1219-1227	2.4	44
50	Swelling, structure, and phase stability of compressible microgels. <i>Soft Matter</i> , 2016 , 12, 9086-9094	3.6	41
49	Fluid demixing in colloid-polymer mixtures: Influence of polymer interactions. <i>Journal of Chemical Physics</i> , 2003 , 118, 1541-1549	3.9	40
48	Poisson-Boltzmann theory of charged colloids: limits of the cell model for salty suspensions. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 364108	1.8	36
47	Effective interactions and volume energies in charge-stabilized colloidal suspensions. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 10061-10071	1.8	35
46	Finite-size effects in molecular dynamics simulations: Static structure factor and compressibility. II. Application to a model krypton fluid. <i>Physical Review E</i> , 1996 , 53, 2390-2401	2.4	33
45	Counterion-induced swelling of ionic microgels. <i>Journal of Chemical Physics</i> , 2016 , 145, 164901	3.9	32

44	Nonlinear screening and effective electrostatic interactions in charge-stabilized colloidal suspensions. <i>Physical Review E</i> , 2004 , 70, 031404	2.4	30
43	Deswelling of Microgels in Crowded Suspensions Depends on Cross-Link Density and Architecture. <i>Macromolecules</i> , 2019 , 52, 3995-4007	5.5	29
42	Isostructural solid - solid transitions in square-shoulder systems. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, L1-L5	1.8	29
41	Freezing of a quantum hard-sphere liquid at zero temperature: A density-functional approach. <i>Physical Review Letters</i> , 1990 , 64, 1529-1532	7.4	29
40	Density-functional approach to the equation of state of a hard-sphere crystal. <i>Physical Review E</i> , 1995 , 51, 65-73	2.4	27
39	Crowding in polymer-nanoparticle mixtures. <i>International Review of Cell and Molecular Biology</i> , 2014 , 307, 27-71	6	26
38	Mixtures of charged colloid and neutral polymer: influence of electrostatic interactions on demixing and interfacial tension. <i>Journal of Chemical Physics</i> , 2005 , 122, 244911	3.9	24
37	Colloids, polymers, and needles: demixing phase behavior. <i>Physical Review E</i> , 2002 , 65, 021508	2.4	24
36	Colloid-induced polymer compression. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 12051-12062	1.8	24
35	Structure and osmotic pressure of ionic microgel dispersions. <i>Journal of Chemical Physics</i> , 2015 , 142, 034904	3.9	20
34	Phase separation and the coffee-ring effect in polymer-nanocrystal mixtures. <i>Soft Matter</i> , 2014 , 10, 1665-75	3.6	18
33	Polymer crowding and shape distributions in polymer-nanoparticle mixtures. <i>Journal of Chemical Physics</i> , 2014 , 141, 114909	3.9	18
32	Crowding of polymer coils and demixing in nanoparticle-polymer mixtures. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 285102	1.8	18
31	Phase separation in charge-stabilized colloidal suspensions: influence of nonlinear screening. <i>Physical Review E</i> , 2006 , 73, 041407	2.4	18
30	Concentration-dependent swelling and structure of ionic microgels: simulation and theory of a coarse-grained model. <i>Soft Matter</i> , 2018 , 14, 4530-4540	3.6	18
29	Charge renormalization, effective interactions, and thermodynamics of deionized colloidal suspensions. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 494230	1.8	17
28	Influence of polymer shape on depletion potentials and crowding in colloid-polymer mixtures. <i>Soft Matter</i> , 2016 , 12, 2247-52	3.6	16
27	The influence of short-range attractive and repulsive interactions on the phase behaviour of model colloidal suspensions. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 8907-8919	1.8	16

26	Demixing of colloid-polymer mixtures in poor solvents. <i>Physical Review E</i> , 2002 , 65, 061410	2.4	15
25	Phase transitions in colloidal suspensions and star polymer solutions. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, A465-A469	1.8	15
24	Thermodynamically stable one-component quasicrystals: A density-functional survey of relative stabilities. <i>Physical Review B</i> , 1997 , 56, 2469-2482	3.3	14
23	Phase separation of charge-stabilized colloids: a Gibbs ensemble Monte Carlo simulation study. <i>Physical Review E</i> , 2007 , 75, 061403	2.4	14
22	Electroneutrality and phase behavior of colloidal suspensions. <i>Physical Review E</i> , 2007 , 76, 051401	2.4	14
21	Effective electrostatic interactions in suspensions of polyelectrolyte brush-coated colloids. <i>Physical Review E</i> , 2004 , 70, 041404	2.4	14
20	Depletion-induced forces and crowding in polymer-nanoparticle mixtures: Role of polymer shape fluctuations and penetrability. <i>Journal of Chemical Physics</i> , 2016 , 144, 024904	3.9	12
19	Ion density deviations in semipermeable ionic microcapsules. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 11070-6	3.6	10
18	Effective Interactions in Soft Materials. <i>Nanoscience and Technology</i> , 2007 , 395-433	0.6	10
17	Ion density deviations in polyelectrolyte microcapsules: influence on biosensors. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 20924-31	3.6	9
16	Reply to "Comment on bModified weighted-density-functional theory of nonuniform classical liquidsb". <i>Physical Review A</i> , 1990 , 41, 2224-2226	2.6	9
15	Structure and stability of charged colloid-nanoparticle mixtures. <i>Journal of Chemical Physics</i> , 2018 , 148, 114904	3.9	8
14	Thermodynamically stable one-component metallic quasicrystals. <i>Europhysics Letters</i> , 1997 , 38, 189-194	1.6	8
13	Effective electrostatic interactions in solutions of polyelectrolyte stars with rigid rodlike arms. <i>Journal of Chemical Physics</i> , 2005 , 123, 244901	3.9	8
12	Effective electrostatic interactions in colloid-nanoparticle mixtures. <i>Physical Review E</i> , 2017 , 96, 062610	2.4	7
11	Tailoring the Cavity of Hollow Polyelectrolyte Microgels. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e1900422	4.8	7
10	Effective electrostatic interactions in mixtures of charged colloids. <i>Physical Review E</i> , 2013 , 88, 022306	2.4	6
9	Density-functional theory of quantum freezing: sensitivity to liquid-state structure and statistics. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 4061-4080	1.8	5

8	Influence of solvent quality on conformations of crowded polymers. <i>Journal of Chemical Physics</i> , 2018 , 149, 124901	3.9	5
7	Osmotic pressure of permeable ionic microgels: Poisson-Boltzmann theory and exact statistical mechanical relations in the cell model. <i>Journal of Chemical Physics</i> , 2019 , 151, 074903	3.9	4
6	Absence of crystals in the phase behavior of hollow microgels. <i>Physical Review E</i> , 2021 , 103, 022612	2.4	4
5	Superlattice formation in colloidal nanocrystal suspensions: Hard-sphere freezing and depletion effects. <i>Physical Review E</i> , 2018 , 98,	2.4	4
4	Exploring fluctuations and phase equilibria in fluid mixtures via Monte Carlo simulation. <i>European Journal of Physics</i> , 2013 , 34, 475-487	0.8	3
3	Modeling deswelling, thermodynamics, structure, and dynamics in ionic microgel suspensions. <i>Journal of Chemical Physics</i> , 2019 , 151, 224901	3.9	3
2	Influence of solvent quality on depletion potentials in colloid-polymer mixtures. <i>Journal of Chemical Physics</i> , 2021 , 155, 084904	3.9	1
1	Osmotic pressure and swelling behavior of ionic microcapsules. <i>Journal of Chemical Physics</i> , 2021 , 155, 214904	3.9	0