

# Alan Denton

## List of Publications by Year in Descending Order

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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	Osmotic pressure and swelling behavior of ionic microcapsules. <i>Journal of Chemical Physics</i> , <b>2021</b> , 155, 214904	3.9	0
60	Absence of crystals in the phase behavior of hollow microgels. <i>Physical Review E</i> , <b>2021</b> , 103, 022612	2.4	4
59	Influence of solvent quality on depletion potentials in colloid-polymer mixtures. <i>Journal of Chemical Physics</i> , <b>2021</b> , 155, 084904	3.9	1
58	Tailoring the Cavity of Hollow Polyelectrolyte Microgels. <i>Macromolecular Rapid Communications</i> , <b>2020</b> , 41, e1900422	4.8	7
57	Osmotic pressure of permeable ionic microgels: Poisson-Boltzmann theory and exact statistical mechanical relations in the cell model. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 074903	3.9	4
56	Deswelling of Microgels in Crowded Suspensions Depends on Cross-Link Density and Architecture. <i>Macromolecules</i> , <b>2019</b> , 52, 3995-4007	5.5	29
55	Modeling deswelling, thermodynamics, structure, and dynamics in ionic microgel suspensions. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 224901	3.9	3
54	Structure and stability of charged colloid-nanoparticle mixtures. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 114904	3.9	8
53	Superlattice formation in colloidal nanocrystal suspensions: Hard-sphere freezing and depletion effects. <i>Physical Review E</i> , <b>2018</b> , 98,	2.4	4
52	Influence of solvent quality on conformations of crowded polymers. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 124901	3.9	5
51	Concentration-dependent swelling and structure of ionic microgels: simulation and theory of a coarse-grained model. <i>Soft Matter</i> , <b>2018</b> , 14, 4530-4540	3.6	18
50	Effective electrostatic interactions in colloid-nanoparticle mixtures. <i>Physical Review E</i> , <b>2017</b> , 96, 062610	2.4	7
49	Swelling, structure, and phase stability of compressible microgels. <i>Soft Matter</i> , <b>2016</b> , 12, 9086-9094	3.6	41
48	Influence of polymer shape on depletion potentials and crowding in colloid-polymer mixtures. <i>Soft Matter</i> , <b>2016</b> , 12, 2247-52	3.6	16
47	Depletion-induced forces and crowding in polymer-nanoparticle mixtures: Role of polymer shape fluctuations and penetrability. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 024904	3.9	12
46	Counterion-induced swelling of ionic microgels. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 164901	3.9	32
45	Ion density deviations in semipermeable ionic microcapsules. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 11070-6	3.6	10

44	Structure and osmotic pressure of ionic microgel dispersions. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 034904	3.9	20
43	Ion density deviations in polyelectrolyte microcapsules: influence on biosensors. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 20924-31	3.6	9
42	Phase separation and the coffee-ring effect in polymer-nanocrystal mixtures. <i>Soft Matter</i> , <b>2014</b> , 10, 1665-75	3.6	18
41	Polymer crowding and shape distributions in polymer-nanoparticle mixtures. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 114909	3.9	18
40	Crowding in polymer-nanoparticle mixtures. <i>International Review of Cell and Molecular Biology</i> , <b>2014</b> , 307, 27-71	6	26
39	Effective electrostatic interactions in mixtures of charged colloids. <i>Physical Review E</i> , <b>2013</b> , 88, 022306	2.4	6
38	Exploring fluctuations and phase equilibria in fluid mixtures via Monte Carlo simulation. <i>European Journal of Physics</i> , <b>2013</b> , 34, 475-487	0.8	3
37	Crowding of polymer coils and demixing in nanoparticle-polymer mixtures. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 285102	1.8	18
36	Poisson-Boltzmann theory of charged colloids: limits of the cell model for salty suspensions. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 364108	1.8	36
35	Charge renormalization, effective interactions, and thermodynamics of deionized colloidal suspensions. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 494230	1.8	17
34	Phase separation of charge-stabilized colloids: a Gibbs ensemble Monte Carlo simulation study. <i>Physical Review E</i> , <b>2007</b> , 75, 061403	2.4	14
33	Electroneutrality and phase behavior of colloidal suspensions. <i>Physical Review E</i> , <b>2007</b> , 76, 051401	2.4	14
32	Effective Interactions in Soft Materials. <i>Nanoscience and Technology</i> , <b>2007</b> , 395-433	0.6	10
31	Phase separation in charge-stabilized colloidal suspensions: influence of nonlinear screening. <i>Physical Review E</i> , <b>2006</b> , 73, 041407	2.4	18
30	Effective electrostatic interactions in solutions of polyelectrolyte stars with rigid rodlike arms. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 244901	3.9	8
29	Mixtures of charged colloid and neutral polymer: influence of electrostatic interactions on demixing and interfacial tension. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 244911	3.9	24
28	Effective electrostatic interactions in suspensions of polyelectrolyte brush-coated colloids. <i>Physical Review E</i> , <b>2004</b> , 70, 041404	2.4	14
27	Nonlinear screening and effective electrostatic interactions in charge-stabilized colloidal suspensions. <i>Physical Review E</i> , <b>2004</b> , 70, 031404	2.4	30

26	Counterion penetration and effective electrostatic interactions in solutions of polyelectrolyte stars and microgels. <i>Physical Review E</i> , <b>2003</b> , 67, 011804	2.4	116
25	Fluid demixing in colloid-polymer mixtures: Influence of polymer interactions. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 1541-1549	3.9	40
24	Demixing of colloid-polymer mixtures in poor solvents. <i>Physical Review E</i> , <b>2002</b> , 65, 061410	2.4	15
23	Colloids, polymers, and needles: demixing phase behavior. <i>Physical Review E</i> , <b>2002</b> , 65, 021508	2.4	24
22	Colloid-induced polymer compression. <i>Journal of Physics Condensed Matter</i> , <b>2002</b> , 14, 12051-12062	1.8	24
21	Solid-phase structures of the dzugutov pair potential. <i>Physical Review E</i> , <b>2000</b> , 61, 6845-57	2.4	63
20	Effective interactions and volume energies in charged colloids: linear response theory. <i>Physical Review E</i> , <b>2000</b> , 62, 3855-64	2.4	58
19	Phase transitions in colloidal suspensions and star polymer solutions. <i>Journal of Physics Condensed Matter</i> , <b>2000</b> , 12, A465-A469	1.8	15
18	Effective interactions and volume energies in charge-stabilized colloidal suspensions. <i>Journal of Physics Condensed Matter</i> , <b>1999</b> , 11, 10061-10071	1.8	35
17	Stability of Colloidal Quasicrystals. <i>Physical Review Letters</i> , <b>1998</b> , 81, 469-472	7.4	60
16	Thermodynamically stable one-component metallic quasicrystals. <i>Europhysics Letters</i> , <b>1997</b> , 38, 189-194	1.6	8
15	The influence of short-range attractive and repulsive interactions on the phase behaviour of model colloidal suspensions. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, 8907-8919	1.8	16
14	Isostructural solid - solid transitions in square-shoulder systems. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, L1-L5	1.8	29
13	Thermodynamically stable one-component quasicrystals: A density-functional survey of relative stabilities. <i>Physical Review B</i> , <b>1997</b> , 56, 2469-2482	3.3	14
12	Density-functional theory of quantum freezing: sensitivity to liquid-state structure and statistics. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, 4061-4080	1.8	5
11	Finite-size effects in molecular dynamics simulations: Static structure factor and compressibility. II. Application to a model krypton fluid. <i>Physical Review E</i> , <b>1996</b> , 53, 2390-2401	2.4	33
10	Finite-size effects in molecular dynamics simulations: Static structure factor and compressibility. I. Theoretical method. <i>Physical Review E</i> , <b>1996</b> , 53, 2382-2389	2.4	122
9	Density-functional approach to the equation of state of a hard-sphere crystal. <i>Physical Review E</i> , <b>1995</b> , 51, 65-73	2.4	27

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|---|---|-----|------|
| 8 | Density-functional approach to the structure of classical uniform fluids. <i>Physical Review A</i> , <b>1991</b> , 44, 1219-1227  | 2.6 | 44   |
| 7 | 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> , <b>1991</b> , 44, 8242-8248 | 2.6 | 88   |
| 6 | Vegard's law. <i>Physical Review A</i> , <b>1991</b> , 43, 3161-3164  | 2.6 | 1665 |
| 5 | Reply to "Comment on Modified weighted-density-functional theory of nonuniform classical liquids". <i>Physical Review A</i> , <b>1990</b> , 41, 2224-2226   | 2.6 | 9    |
| 4 | Freezing of a quantum hard-sphere liquid at zero temperature: A density-functional approach. <i>Physical Review Letters</i> , <b>1990</b> , 64, 1529-1532   | 7.4 | 29   |
| 3 | Weighted-density-functional theory of nonuniform fluid mixtures: Application to freezing of binary hard-sphere mixtures. <i>Physical Review A</i> , <b>1990</b> , 42, 7312-7329                       | 2.6 | 127  |
| 2 | Modified weighted-density-functional theory of nonuniform classical liquids. <i>Physical Review A</i> , <b>1989</b> , 39, 4701-4708   | 2.6 | 273  |
| 1 | High-order direct correlation functions of uniform classical liquids. <i>Physical Review A</i> , <b>1989</b> , 39, 426-429  | 2.6 | 124  |