

Daniel Harries

List of Publications by Year in descending order

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101
papers

4,774
citations

70961

41
h-index

98622

67
g-index

104
all docs

104
docs citations

104
times ranked

5178
citing authors

#	ARTICLE	IF	CITATIONS
1	Entropy of Branching Out: Linear versus Branched Alkylthiol Ligands on CdSe Nanocrystals. <i>ACS Nano</i> , 2022, 16, 4308-4321.	7.3	15
2	Macromolecular Crowding Is More than Hard-Core Repulsions. <i>Annual Review of Biophysics</i> , 2022, 51, 267-300.	4.5	51
3	How Glycine Betaine Modifies Lipid Membrane Interactions. <i>ChemSystemsChem</i> , 2021, 3, e2100010.	1.1	3
4	Cyclodextrin solubilization in hydrated reline: Resolving the unique stabilization mechanism in a deep eutectic solvent. <i>Journal of Chemical Physics</i> , 2021, 154, 224505.	1.2	5
5	Osmolytes and crowders regulate aggregation of the cancer-related L106R mutant of the Axin protein. <i>Biophysical Journal</i> , 2021, 120, 3455-3469.	0.2	1
6	Calcium Ions Promote Membrane Fusion by Forming Negative-Curvature Inducing Clusters on Specific Anionic Lipids. <i>ACS Nano</i> , 2021, 15, 12880-12887.	7.3	23
7	β -Hairpin Mini-protein Stabilization in Trehalose Glass Is Facilitated by an Emergent Compact Non-Native State. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7659-7664.	2.1	2
8	Molecular self-assembly under nanoconfinement: indigo carmine scroll structures entrapped within polymeric capsules. <i>Nanoscale</i> , 2021, 13, 20462-20470.	2.8	4
9	Properties of Aqueous Trehalose Mixtures: Glass Transition and Hydrogen Bonding. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 1249-1262.	2.3	39
10	Heterogeneous Electrofreezing of Supercooled Water on Surfaces of Pyroelectric Crystals is Triggered by Trigonal Planar Ions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15575-15579.	7.2	5
11	Confinement in Nanodiscs Anisotropically Modifies Lipid Bilayer Elastic Properties. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7166-7175.	1.2	26
12	Heterogeneous Electrofreezing of Supercooled Water on Surfaces of Pyroelectric Crystals is Triggered by Trigonal Planar Ions. <i>Angewandte Chemie</i> , 2020, 132, 15705-15709.	1.6	3
13	Innenrücktitelbild: Heterogeneous Electrofreezing of Supercooled Water on Surfaces of Pyroelectric Crystals is Triggered by Trigonal Planar Ions (<i>Angew. Chem.</i> 36/2020). <i>Angewandte Chemie</i> , 2020, 132, 15895-15895.	1.6	0
14	Bridges of Calcium Bicarbonate Tightly Couple Dipolar Lipid Membranes. <i>Langmuir</i> , 2020, 36, 10715-10724.	1.6	6
15	Restructuring a Deep Eutectic Solvent by Water: The Nanostructure of Hydrated Choline Chloride/Urea. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 3335-3342.	2.3	78
16	Stressing crystals with solutes: Effects of added solutes on crystalline caffeine and their relevance to determining transfer free energies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 599, 124889.	2.3	2
17	How Sugars Modify Caffeine Self-Association and Solubility: Resolving a Mechanism of Selective Hydrotrophy. <i>Journal of the American Chemical Society</i> , 2019, 141, 18056-18063.	6.6	20
18	The taste of KCl – What a difference a sugar makes. <i>Food Chemistry</i> , 2018, 255, 165-173.	4.2	14

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19	A local instantaneous surface method for extracting membrane elastic moduli from simulation: Comparison with other strategies. <i>Chemical Physics</i> , 2018, 514, 31-43.	0.9	22
20	Revisiting Hydrogen Bond Thermodynamics in Molecular Simulations. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2851-2857.	2.3	26
21	Impact of trehalose on the activity of sodium and potassium chloride in aqueous solutions: Why trehalose is worth its salt. <i>Food Chemistry</i> , 2017, 237, 1209-1215.	4.2	12
22	Determination of bending rigidity and tilt modulus of lipid membranes from real-space fluctuation analysis of molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16806-16818.	1.3	98
23	How do Cosolutes Stabilize Macromolecules? From Bridging to Depletion Attraction. <i>Biophysical Journal</i> , 2017, 112, 195a.	0.2	1
24	TMAO mediates effective attraction between lipid membranes by partitioning unevenly between bulk and lipid domains. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29862-29871.	1.3	21
25	Thermodynamic Mechanism of Protein Stabilization: Crowders vs. Osmolytes. <i>Biophysical Journal</i> , 2016, 110, 212a-213a.	0.2	0
26	Implementation of a methodology for determining elastic properties of lipid assemblies from molecular dynamics simulations. <i>BMC Bioinformatics</i> , 2016, 17, 161.	1.2	25
27	Competing processes of micellization and fibrillization in native and reduced casein proteins. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22516-22525.	1.3	10
28	Reversible Modulation of DNA-Based Hydrogel Shapes by Internal Stress Interactions. <i>Journal of the American Chemical Society</i> , 2016, 138, 16112-16119.	6.6	105
29	Nonclassical Crystal Growth as Explanation for the Riddle of Polarity in Centrosymmetric Glycine Crystals. <i>Journal of the American Chemical Society</i> , 2016, 138, 14756-14763.	6.6	14
30	Properties of Polyvinylpyrrolidone in a Deep Eutectic Solvent. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3253-3259.	1.1	46
31	Macromolecular compaction by mixed solutions: Bridging versus depletion attraction. <i>Current Opinion in Colloid and Interface Science</i> , 2016, 22, 80-87.	3.4	36
32	Macromolecular Stabilization by Excluded Cosolutes: Mean Field Theory of Crowded Solutions. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 3478-3490.	2.3	30
33	Cholesterol under oxidative stress—How lipid membranes sense oxidation as cholesterol is being replaced by oxysterols. <i>Free Radical Biology and Medicine</i> , 2015, 84, 30-41.	1.3	57
34	The contribution of capping layer dielectric properties to nanoparticle stability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 483, 239-247.	2.3	2
35	Osmolyte Induced Changes in Peptide Conformational Ensemble Correlate with Slower Amyloid Aggregation: A Coarse-Grained Simulation Study. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5918-5928.	2.3	12
36	Is the depletion force entropic? Molecular crowding beyond steric interactions. <i>Current Opinion in Colloid and Interface Science</i> , 2015, 20, 3-10.	3.4	106

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37	Curvature and Lipid Packing Modulate the Elastic Properties of Lipid Assemblies: Comparing H_{II} and Lamellar Phases. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 4201-4206.	2.1	23
38	Molecular origins of bending rigidity in lipids with isolated and conjugated double bonds: The effect of cholesterol. <i>Chemistry and Physics of Lipids</i> , 2014, 178, 18-26.	1.5	27
39	Effect of salt on the formation of salt-bridges in β -hairpin peptides. <i>Chemical Communications</i> , 2014, 50, 8193-8196.	2.2	11
40	Origin of Enthalpic Depletion Forces. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1061-1065.	2.1	74
41	Soft Matter Physics of Lipid Membrane-Based Assemblies. , 2014, , 3-30.		8
42	Counterion release in membrane-biopolymer interactions. <i>Soft Matter</i> , 2013, 9, 9268.	1.2	40
43	Balance of enthalpy and entropy in depletion forces. <i>Current Opinion in Colloid and Interface Science</i> , 2013, 18, 495-501.	3.4	86
44	Modulating the structure and interactions of lipid-peptide complexes by varying membrane composition and solution conditions. <i>Soft Matter</i> , 2013, 9, 7117.	1.2	15
45	How Cholesterol Tilt Modulates the Mechanical Properties of Saturated and Unsaturated Lipid Membranes. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2411-2421.	1.2	62
46	How sterol tilt regulates properties and organization of lipid membranes and membrane insertions. <i>Chemistry and Physics of Lipids</i> , 2013, 169, 113-123.	1.5	34
47	Calculating the Bending Modulus for Multicomponent Lipid Membranes in Different Thermodynamic Phases. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3866-3871.	2.3	102
48	Diversity in the mechanisms of cosolute action on biomolecular processes. <i>Faraday Discussions</i> , 2013, 160, 225-237.	1.6	67
49	Effect of capsid confinement on the chromatin organization of the SV40 minichromosome. <i>Nucleic Acids Research</i> , 2013, 41, 1569-1580.	6.5	29
50	Insights into the disparate action of osmolytes and macromolecular crowders on amyloid formation. <i>Prion</i> , 2012, 6, 26-31.	0.9	26
51	9.4 Coarse Grained Methods: Applications to Membranes. , 2012, , 53-75.		0
52	RNA Encapsidation by SV40-Derived Nanoparticles Follows a Rapid Two-State Mechanism. <i>Journal of the American Chemical Society</i> , 2012, 134, 8823-8830.	6.6	86
53	Unraveling the Molecular Mechanism of Enthalpy Driven Peptide Folding by Polyol Osmolytes. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3816-3828.	2.3	50
54	Molecular Properties from Conformational Ensembles. 1. Dipole Moments of Molecules with Multiple Internal Rotations. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5794-5809.	1.1	1

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55	Linking Trehalose Self-Association with Binary Aqueous Solution Equation of State. <i>Journal of Physical Chemistry B</i> , 2011, 115, 624-634.	1.2	66
56	Self-assembly of DNA nanotubes with controllable diameters. <i>Nature Communications</i> , 2011, 2, 540.	5.8	74
57	Curvature Instability in a Chiral Amphiphile Self-Assembly. <i>Physical Review Letters</i> , 2011, 106, 238105.	2.9	60
58	Impact of sterol tilt on membrane bending rigidity in cholesterol and 7DHC-containing DMPC membranes. <i>Soft Matter</i> , 2011, 7, 10299.	1.2	18
59	Osmolytes Induce Changes in the Conformational Landscape of a Model Peptide. <i>Biophysical Journal</i> , 2011, 100, 396a-397a.	0.2	0
60	Crowding Alone Cannot Account for Cosolute Effect on Amyloid Aggregation. <i>PLoS ONE</i> , 2011, 6, e15608.	1.1	62
61	Ion-specific hydration effects: Extending the Poisson-Boltzmann theory. <i>Current Opinion in Colloid and Interface Science</i> , 2011, 16, 542-550.	3.4	133
62	Modeling Signaling Processes across Cellular Membranes Using a Mesoscopic Approach. <i>Annual Reports in Computational Chemistry</i> , 2010, 6, 236-261.	0.9	5
63	Nematic Order in Small Systems: Measuring the Elastic and Wall-Anchoring Constants in Vibrofluidized Granular Rods. <i>Physical Review Letters</i> , 2010, 105, 168001.	2.9	41
64	Osmotic stress regulates the strength and kinetics of sugar binding to the maltoporin channel. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 454110.	0.7	9
65	Cholesterol Orientation and Tilt Modulus in DMPC Bilayers. <i>Biophysical Journal</i> , 2010, 98, 80a.	0.2	1
66	Enthalpically driven peptide stabilization by protective osmolytes. <i>Chemical Communications</i> , 2010, 46, 6449.	2.2	103
67	Cholesterol Orientation and Tilt Modulus in DMPC Bilayers. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7524-7534.	1.2	81
68	Depletion forces drive polymer-like self-assembly in vibrofluidized granular materials. <i>Soft Matter</i> , 2010, 6, 1026.	1.2	26
69	The Dynamic Side of the Hofmeister Effect: A Single-Molecule Nanopore Study of Specific Complex Formation. <i>ChemPhysChem</i> , 2009, 10, 1445-1449.	1.0	29
70	Ions in Mixed Dielectric Solvents: Density Profiles and Osmotic Pressure between Charged Interfaces. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6001-6011.	1.2	62
71	Osmotically Induced Reversible Transitions in Lipid-DNA Mesophases. <i>Biophysical Journal</i> , 2009, 96, L43-L45.	0.2	17
72	Modeling Membrane Deformations and Lipid Demixing upon Protein-Membrane Interaction: The BAR Dimer Adsorption. <i>Biophysical Journal</i> , 2009, 97, 1626-1635.	0.2	63

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73	Beyond standard Poisson-Boltzmann theory: ion-specific interactions in aqueous solutions. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 424106.	0.7	98
74	The Impact of Polyols on Water Structure in Solution: A Computational Study. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7548-7555.	1.1	74
75	Matrix formalism for site-specific binding of unstructured proteins to multicomponent lipid membranes. <i>Journal of Peptide Science</i> , 2008, 14, 368-373.	0.8	12
76	Protein Diffusion on Charged Membranes: A Dynamic Mean-Field Model Describes Time Evolution and Lipid Reorganization. <i>Biophysical Journal</i> , 2008, 94, 2580-2597.	0.2	49
77	A Practical Guide on How Osmolytes Modulate Macromolecular Properties. <i>Methods in Cell Biology</i> , 2008, 84, 679-735.	0.5	112
78	Interactions in Macromolecular Complexes Used as Nonviral Vectors for Gene Delivery. , 2008, , .		6
79	Measurement of Lipid Forces by X-Ray Diffraction and Osmotic Stress. <i>Methods in Molecular Biology</i> , 2007, 400, 405-419.	0.4	10
80	Swelling of phospholipids by monovalent salt. <i>Journal of Lipid Research</i> , 2006, 47, 302-309.	2.0	140
81	Spontaneous Patterning of Confined Granular Rods. <i>Physical Review Letters</i> , 2006, 96, 028002.	2.9	96
82	Abnormal sterols in cholesterol-deficiency diseases cause secretory granule malformation and decreased membrane curvature. <i>Journal of Cell Science</i> , 2006, 119, 1876-1885.	1.2	84
83	Ion induced lamellar-lamellar phase transition in charged surfactant systems. <i>Journal of Chemical Physics</i> , 2006, 124, 224702.	1.2	54
84	Alteration of Lipid Membrane Rigidity by Cholesterol and Its Metabolic Precursors. <i>Macromolecular Symposia</i> , 2005, 219, 39-50.	0.4	30
85	Polymorphism of DNA-anionic liposome complexes reveals hierarchy of ion-mediated interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11173-11178.	3.3	75
86	Solutes Probe Hydration in Specific Association of Cyclodextrin and Adamantane. <i>Journal of the American Chemical Society</i> , 2005, 127, 2184-2190.	6.6	177
87	Measured Depletion of Ions at the Biomembrane Interface. <i>Journal of the American Chemical Society</i> , 2005, 127, 11546-11547.	6.6	42
88	Gibbs adsorption isotherm combined with Monte Carlo sampling to see action of cosolutes on protein folding. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 57, 311-321.	1.5	3
89	Enveloping of Charged Proteins by Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1491-1496.	1.2	23
90	Structure and Fluctuations of Charged Phosphatidylserine Bilayers in the Absence of Salt. <i>Biophysical Journal</i> , 2004, 86, 1574-1586.	0.2	263

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91	Curvature and Charge Modulations in Lamellar DNA~Lipid Complexes. Journal of Physical Chemistry B, 2003, 107, 3624-3630.	1.2	28
92	Molecular Interactions in Lipids, DNA, and DNA~Lipid Complexes. , 2003, , 301-332.		0
93	Macroion-Induced Compositional Instability of Binary Fluid Membranes. Physical Review Letters, 2002, 89, 268102.	2.9	46
94	Adsorption of charged macromolecules on mixed fluid membranes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 208, 41-50.	2.3	20
95	Lipid Demixing and Protein-Protein Interactions in the Adsorption of Charged Proteins on Mixed Membranes. Biophysical Journal, 2000, 79, 1747-1760.	0.2	145
96	The Phase Behavior of Cationic Lipid~DNA Complexes. Biophysical Journal, 2000, 78, 1681-1697.	0.2	126
97	Direct Evidence for Counterion Release upon Cationic Lipid~DNA Condensation. Langmuir, 2000, 16, 303-306.	1.6	159
98	Solving the Poisson~Boltzmann Equation for Two Parallel Cylinders. Langmuir, 1998, 14, 3149-3152.	1.6	39
99	Structure, Stability, and Thermodynamics of Lamellar DNA-Lipid Complexes. Biophysical Journal, 1998, 75, 159-173.	0.2	224
100	Topological Defects and the Optimum Size of DNA Condensates. Biophysical Journal, 1998, 75, 714-720.	0.2	81
101	Conformational chain statistics in a model lipid bilayer: Comparison between mean field and Monte Carlo calculations. Journal of Chemical Physics, 1997, 106, 1609-1619.	1.2	39