Paul S Cremer

List of Publications by Year
in descending order

96 papers	14,828 citations	28190 55 h-index	37111 96 g-index
100 all docs	100 docs citations	100 times ranked	14356 citing authors

#	Article	IF	Citations
1	Weakly hydrated anions bind to polymers but not monomers in aqueous solutions. Nature Chemistry, 2022, 14, 40-45.	6.6	57
2	Contact Ion Pair Formation Is Not Necessarily Stronger than Solvent Shared Ion Pairing. Journal of Physical Chemistry Letters, 2022, 13, 923-930.	2.1	6
3	Tribute to Dor Ben-Amotz. Journal of Physical Chemistry B, 2022, 126, 2943-2945.	1.2	0
4	Comment on â€œArresting an Unusual Amide Tautomer Using Divalent Cationsâ€• Journal of Physical Chemistry B, 2021, 125, 477-478.	1.2	2
5	Characterization of Proteinâ€"Phospholipid/Membrane Interactions Using a â€œMembrane-on-a-Chipâ€• Microfluidic System. Methods in Molecular Biology, 2021, 2251, 143-156.	0.4	1
6	Contact Ion Pairs in the Bulk Affect Anion Interactions with Poly(<i>N</i>-isopropylacrylamide). Journal of Physical Chemistry B, 2021, 125, 680-688.	1.2	9
7	Local Electric Fields in Aqueous Electrolytes. Journal of Physical Chemistry B, 2021, 125, 8484-8493.	1.2	9
8	Cation Identity Affects Nonadditivity in Salt Mixtures Containing Iodide and Sulfate. Journal of Solution Chemistry, 2021, 50, 1443-1456.	0.6	5
9	Artificial water channels enable fast and selective water permeation through water-wire networks. Nature Nanotechnology, 2020, 15, 73-79.	15.6	111
10	Zn²⁺ Binds to Phosphatidylserine and Induces Membrane Blebbing. Journal of the American Chemical Society, 2020, 142, 18679-18686.	6.6	14
11	Immobilization of Phosphatidylinositides Revealed by Bilayer Leaflet Decoupling. Journal of the American Chemical Society, 2020, 142, 13003-13010.	6.6	5
12	De novo engineering of intracellular condensates using artificial disordered proteins. Nature Chemistry, 2020, 12, 814-825.	6.6	157
13	Molecular Mechanism for the Interactions of Hofmeister Cations with Macromolecules in Aqueous Solution. Journal of the American Chemical Society, 2020, 142, 19094-19100.	6.6	53
14	Giants in Sensing: A Virtual Issue to Celebrate Five Years of ACS Sensors. ACS Sensors, 2020, 5, 1249-1250.	4.0	0
15	A stepwise mechanism for aqueous two-phase system formation in concentrated antibody solutions. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15784-15791.	3.3	21
16	Counter Cations Affect Transport in Aqueous Hydroxide Solutions with Ion Specificity. Journal of the American Chemical Society, 2019, 141, 6930-6936.	6.6	18
17	Nonadditive Ion Effects Drive Both Collapse and Swelling of Thermoresponsive Polymers in Water. Journal of the American Chemical Society, 2019, 141, 6609-6616.	6.6	51
18	Positive and negative chemotaxis of enzyme-coated liposome motors. Nature Nanotechnology, 2019, 14, 1129-1134.	15.6	152

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19	Modulation of Cu2+ Binding to Sphingosine-1-Phosphate by Lipid Charge. Langmuir, 2019, 35, 824-830.	1.6	2
20	Collaborative routes to clarifying the murky waters of aqueous supramolecular chemistry. Nature Chemistry, 2018, 10, 8-16.	6.6	143
21	The Jonesâ€“Ray Effect Is Not Caused by Surface-Active Impurities. Journal of Physical Chemistry Letters, 2018, 9, 6739-6743.	2.1	15
22	Introduction of Positive Charges into Zwitterionic Phospholipid Monolayers Disrupts Water Structure Whereas Negative Charges Enhances It. Journal of Physical Chemistry B, 2018, 122, 12260-12270.	1.2	29
23	Multistep Interactions between Ibuprofen and Lipid Membranes. Langmuir, 2018, 34, 10782-10792.	1.6	28
24	Achieving high permeability and enhanced selectivity for Angstrom-scale separations using artificial water channel membranes. Nature Communications, 2018, 9, 2294.	5.8	95
25	Trimethylamine <i>N</i> -oxide stabilizes proteins via a distinct mechanism compared with betaine and glycine. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2479-2484.	3.3	144
26	Beyond the Hofmeister Series: Ion-Specific Effects on Proteins and Their Biological Functions. Journal of Physical Chemistry B, 2017, 121, 1997-2014.	1.2	466
27	Calcium Directly Regulates Phosphatidylinositol 4,5-Bisphosphate Headgroup Conformation and Recognition. Journal of the American Chemical Society, 2017, 139, 4019-4024.	6.6	87
28	Guanidinium can both Cause and Prevent the Hydrophobic Collapse of Biomacromolecules. Journal of the American Chemical Society, 2017, 139, 863-870.	6.6	76
29	PIP-on-a-chip: A Label-free Study of Protein-phosphoinositide Interactions. Journal of Visualized Experiments, 2017, , .	0.2	6
30	Supported Lipid Bilayers with Phosphatidylethanolamine as the Major Component. Langmuir, 2017, 33, 13423-13429.	1.6	33
31	Oblique Colloidal Lithography for the Fabrication of Nonconcentric Features. ACS Nano, 2017, 11, 6594-6604.	7.3	14
32	The RNA-Binding Site of Poliovirus 3C Protein Doubles as a Phosphoinositide-Binding Domain. Structure, 2017, 25, 1875-1886.e7.	1.6	20
33	The complex nature of calcium cation interactions with phospholipid bilayers. Scientific Reports, 2016, 6, 38035.	1.6	208
34	What Is the Preferred Conformation of Phosphatidylserineâ€“Copper(II) Complexes? A Combined Theoretical and Experimental Investigation. Journal of Physical Chemistry B, 2016, 120, 12883-12889.	1.2	13
35	Polyarginine Interacts More Strongly and Cooperatively than Polylysine with Phospholipid Bilayers. Journal of Physical Chemistry B, 2016, 120, 9287-9296.	1.2	76
36	Electrolytes induce long-range orientational order and free energy changes in the H-bond network of bulk water. Science Advances, 2016, 2, e1501891.	4.7	151

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37	Cu²⁺ Binds to Phosphatidylethanolamine and Increases Oxidation in Lipid Membranes. Journal of the American Chemical Society, 2016, 138, 1584-1590.	6.6	105
38	Unquenchable Surface Potential Dramatically Enhances Cu²⁺ Binding to Phosphatidylserine Lipids. Journal of the American Chemical Society, 2015, 137, 7785-7792.	6.6	46
39	An NH Moiety Is Not Required for Anion Binding to Amides in Aqueous Solution. Langmuir, 2015, 31, 3459-3464.	1.6	57
40	Simultaneous Detection of Multiple Proteins that Bind to the Identical Ligand in Supported Lipid Bilayers. Analytical Chemistry, 2015, 87, 7163-7170.	3.2	6
41	Beyond Hofmeister. Nature Chemistry, 2014, 6, 261-263.	6.6	383
42	Monitoring Phosphatidic Acid Formation in Intact Phosphatidylcholine Bilayers upon Phospholipase D Catalysis. Analytical Chemistry, 2014, 86, 1753-1759.	3.2	9
43	Chemotactic Separation of Enzymes. ACS Nano, 2014, 8, 11941-11949.	7.3	96
44	Fabrication of Split-Rings via Stretchable Colloidal Lithography. ACS Photonics, 2014, 1, 127-134.	3.2	13
45	Fluorescence modulation sensing of positively and negatively charged proteins on lipid bilayers. Biointerphases, 2013, 8, 1.	0.6	111
46	Effects of End-Group Termination on Salting-Out Constants for Triglycine. Journal of Physical Chemistry Letters, 2013, 4, 4069-4073.	2.1	20
47	Cations Bind Only Weakly to Amides in Aqueous Solutions. Journal of the American Chemical Society, 2013, 135, 5062-5067.	6.6	155
48	Stepwise Molding, Etching, and Imprinting to Form Libraries of Nanopatterned Substrates. Langmuir, 2013, 29, 6737-6745.	1.6	10
49	Reversal of the Hofmeister Series: Specific Ion Effects on Peptides. Journal of Physical Chemistry B, 2013, 117, 8150-8158.	1.2	169
50	Sensing Small Molecule Interactions with Lipid Membranes by Local pH Modulation. Analytical Chemistry, 2013, 85, 10240-10248.	3.2	35
51	Direct and Reverse Hofmeister Effects on Interfacial Water Structure. Journal of Physical Chemistry C, 2012, 116, 14408-14413.	1.5	68
52	Role of Carboxylate Side Chains in the Cation Hofmeister Series. Journal of Physical Chemistry B, 2012, 116, 7389-7397.	1.2	135
53	The Effects of Hofmeister Cations at Negatively Charged Hydrophilic Surfaces. Journal of Physical Chemistry C, 2012, 116, 5730-5734.	1.5	116
54	Deflected Capillary Force Lithography. ACS Nano, 2012, 6, 1548-1556.	7.3	22

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55	Phosphatidylserine Reversibly Binds Cu2+with Extremely High Affinity. Journal of the American Chemical Society, 2012, 134, 7773-7779.	6.6	57
56	Monitoring proteinâ€“small molecule interactions by local pH modulation. Biosensors and Bioelectronics, 2012, 38, 74-78.	5.3	10
57	Molecular Mechanisms of Ion-Specific Effects on Proteins. Journal of the American Chemical Society, 2012, 134, 10039-10046.	6.6	268
58	Chemistry of Hofmeister Anions and Osmolytes. Annual Review of Physical Chemistry, 2010, 61, 63-83.	4.8	537
59	The inverse and direct Hofmeister series for lysozyme. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15249-15253.	3.3	361
60	Hydrogen Bonding of Î²-Turn Structure Is Stabilized in D₂O. Journal of the American Chemical Society, 2009, 131, 15188-15193.	6.6	79
61	Evaporation-Induced Assembly of Quantum Dots into Nanorings. ACS Nano, 2009, 3, 173-180.	7.3	155
62	Investigating the Hydrogen-Bonding Model of Urea Denaturation. Journal of the American Chemical Society, 2009, 131, 9304-9310.	6.6	254
63	Detecting Proteinâˆ’Ligand Binding on Supported Bilayers by Local pH Modulation. Journal of the American Chemical Society, 2009, 131, 1006-1014.	6.6	53
64	Effects of Hofmeister Anions on the Phase Transition Temperature of Elastin-like Polypeptides. Journal of Physical Chemistry B, 2008, 112, 13765-13771.	1.2	277
65	Specific Ion Effects on Interfacial Water Structure near Macromolecules. Journal of the American Chemical Society, 2007, 129, 12272-12279.	6.6	294
66	Templating Water Stains for Nanolithography. Nano Letters, 2007, 7, 2452-2458.	4.5	22
67	Single Ion-Channel Recordings Using Glass Nanopore Membranes. Journal of the American Chemical Society, 2007, 129, 11766-11775.	6.6	238
68	Single Giant Vesicle Rupture Events Reveal Multiple Mechanisms of Glass-Supported Bilayer Formation. Biophysical Journal, 2007, 92, 1988-1999.	0.2	89
69	Effects of Hofmeister Anions on the LCST of PNIPAM as a Function of Molecular Weightâ€. Journal of Physical Chemistry C, 2007, 111, 8916-8924.	1.5	335
70	Effects of end group polarity and molecular weight on the lower critical solution temperature of poly(N-isopropylacrylamide). Journal of Polymer Science Part A, 2006, 44, 1492-1501.	2.5	281
71	Effect of Average Phospholipid Curvature on Supported Bilayer Formation on Glass by Vesicle Fusion. Biophysical Journal, 2006, 90, 1241-1248.	0.2	133
72	Probing Molecular Structure at Interfaces for Comparison with Bulk Solution Behavior:Â Water/2-Propanol Mixtures Monitored by Vibrational Sum Frequency Spectroscopy. Journal of the American Chemical Society, 2006, 128, 5516-5522.	6.6	72

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73	Aqueous Two-Phase System Formation Kinetics for Elastin-Like Polypeptides of Varying Chain Length. Biomacromolecules, 2006, 7, 2192-2199.	2.6	42
74	Interactions between macromolecules and ions: the Hofmeister series. Current Opinion in Chemical Biology, 2006, 10, 658-663.	2.8	1,679
75	Solid supported lipid bilayers: From biophysical studies to sensor design. Surface Science Reports, 2006, 61, 429-444.	3.8	969
76	Specific Ion Effects on the Water Solubility of Macromolecules:Â PNIPAM and the Hofmeister Series. Journal of the American Chemical Society, 2005, 127, 14505-14510.	6.6	1,188
77	On the Mechanism of the Hofmeister Effect. Journal of the American Chemical Society, 2004, 126, 10522-10523.	6.6	290
78	Investigation of Water Structure at the TiO2/Aqueous Interface. Langmuir, 2004, 20, 1662-1666.	1.6	89
79	High-Throughput Studies of the Effects of Polymer Structure and Solution Components on the Phase Separation of Thermoresponsive Polymers. Macromolecules, 2004, 37, 1031-1036.	2.2	82
80	Organization of Water Layers at Hydrophilic Interfaces. ChemPhysChem, 2003, 4, 1231-1233.	1.0	51
81	Investigations of the Orientation of a Membrane Peptide by Sum Frequency Spectroscopy. Journal of Physical Chemistry B, 2003, 107, 1403-1409.	1.2	66
82	Thermodynamics of Phase Transitions in Langmuir Monolayers Observed by Vibrational Sum Frequency Spectroscopy. Journal of the American Chemical Society, 2003, 125, 11166-11167.	6.6	41
83	Probing the Mechanism of Aqueous Two-Phase System Formation for Î±-Elastin On-Chip. Journal of the American Chemical Society, 2003, 125, 15630-15635.	6.6	22
84	Investigations of Polyelectrolyte Adsorption at the Solid/Liquid Interface by Sum Frequency Spectroscopy:â€‰ Evidence for Long-Range Macromolecular Alignment at Highly Charged Quartz/Water Interfaces. Journal of the American Chemical Society, 2002, 124, 8751-8756.	6.6	67
85	Reusable Platforms for High-Throughput On-Chip Temperature Gradient Assays. Analytical Chemistry, 2002, 74, 5071-5075.	3.2	67
86	Investigations of Lysozyme Adsorption at the Air/Water and Quartz/Water Interfaces by Vibrational Sum Frequency Spectroscopy. Langmuir, 2002, 18, 2807-2811.	1.6	86
87	A Microfluidic Device with a Linear Temperature Gradient for Parallel and Combinatorial Measurements. Journal of the American Chemical Society, 2002, 124, 4432-4435.	6.6	173
88	Fabrication of Phospholipid Bilayer-Coated Microchannels for On-Chip Immunoassays. Analytical Chemistry, 2001, 73, 165-169.	3.2	239
89	Investigations of Water Structure at the Solid/Liquid Interface in the Presence of Supported Lipid Bilayers by Vibrational Sum Frequency Spectroscopy. Langmuir, 2001, 17, 7255-7260.	1.6	146
90	Stochastic sensors inspired by biology. Nature, 2001, 413, 226-230.	13.7	1,046

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91	Creating Addressable Aqueous Microcompartments above Solid Supported Phospholipid Bilayers Using Lithographically Patterned Poly(dimethylsiloxane) Molds. Analytical Chemistry, 2000, 72, 2587-2589.	3.2	36
92	IRâ^'Visible SFG Investigations of Interfacial Water Structure upon Polyelectrolyte Adsorption at the Solid/Liquid Interface. Journal of the American Chemical Society, 2000, 122, 12371-12372.	6.6	95
93	Formation and Spreading of Lipid Bilayers on Planar Glass Supports. Journal of Physical Chemistry B, 1999, 103, 2554-2559.	1.2	654
94	Creating Spatially Addressed Arrays of Planar Supported Fluid Phospholipid Membranes. Journal of the American Chemical Society, 1999, 121, 8130-8131.	6.6	95
95	Writing and Erasing Barriers to Lateral Mobility into Fluid Phospholipid Bilayers. Langmuir, 1999, 15, 3893-3896.	1.6	106
96	Substrateâ^'Membrane Interactions:â€‰ Mechanisms for Imposing Patterns on a Fluid Bilayer Membrane. Langmuir, 1998, 14, 3347-3350.	1.6	146