Vincent S J Craig

List of Publications by Year
in descending order

133	10,153	36303 51	33894 99
papers	citations	h-index	g-index

135	135	135	7868
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Understanding specific ion effects and the Hofmeister series. Physical Chemistry Chemical Physics, 2022, 24, 12682-12718.	2.8	101
2	Colloidal Systems in Concentrated Electrolyte Solutions Exhibit Re-entrant Long-Range Electrostatic Interactions due to Underscreening. Langmuir, 2022, 38, 6164-6173.	3.5	7
3	The electrostatic origins of specific ion effects: quantifying the Hofmeister series for anions. Chemical Science, 2021, 12, 15007-15015.	7.4	44
4	Artificial neural networks for the prediction of solvation energies based on experimental and computational data. Physical Chemistry Chemical Physics, 2020, 22, 24359-24364.	2.8	15
5	Re-entrant swelling and redissolution of polyelectrolytes arises from an increased electrostatic decay length at high salt concentrations. Journal of Colloid and Interface Science, 2020, 579, 369-378.	9.4	16
6	Direct Measurement of Interaction Forces between Surfaces in Liquids Using Atomic Force Microscopy. KONA Powder and Particle Journal, 2019, 36, 187-200.	1.7	18
7	Does gas supersaturation by a chemical reaction produce bulk nanobubbles?. Journal of Colloid and Interface Science, 2019, 554, 388-395.	9.4	29
8	Forces between zinc sulphide surfaces; amplification of the hydrophobic attraction by surface charge. Physical Chemistry Chemical Physics, 2019, 21, 20055-20064.	2.8	3
9	Generation of nanoparticles upon mixing ethanol and water; Nanobubbles or Not?. Journal of Colloid and Interface Science, 2019, 542, 136-143.	9.4	59
10	Interaction of Particles with Surfactant Thin Films: Implications for Dust Suppression. Langmuir, 2019, 35, 7641-7649.	3.5	11
11	Long-Term Stability of Surface Nanobubbles in Undersaturated Aqueous Solution. Langmuir, 2019, 35, 718-728.	3.5	31
12	Armoured nanobubbles; ultrasound contrast agents under pressure. Journal of Colloid and Interface Science, 2019, 537, 123-131.	9.4	51
13	Probing the Hofmeister series beyond water: Specific-ion effects in non-aqueous solvents. Journal of Chemical Physics, 2018, 148, 222805.	3.0	44
14	Hydrophobic Attraction Measured between Asymmetric Hydrophobic Surfaces. Langmuir, 2018, 34, 3588-3596.	3.5	22
15	The Role of Citric Acid in the Stabilization of Nanoparticles and Colloidal Particles in the Environment: Measurement of Surface Forces between Hafnium Oxide Surfaces in the Presence of Citric Acid. Langmuir, 2018, 34, 2595-2605.	3.5	29
16	Polyelectrolyte multilayers under compression: concurrent osmotic stress and colloidal probe atomic force microscopy. Soft Matter, 2018, 14, 961-968.	2.7	4
17	Structured near-infrared Magnetic Circular Dichroism spectra of the Mn4CaO5 cluster of PSII in T. vulcanus are dominated by Mn(IV) d-d â€˜spin-flipâ€™ transitions. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 88-98.	1.0	12
18	Dynamically Gasâ€Phase Switchable Super(de)wetting States by Reversible Amphiphilic Functionalization: A Powerful Approach for Smart Fluid Gating Membranes. Advanced Functional Materials, 2018, 28, 1704423.	14.9	12

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19	PEO-PPO-PEO surfactant exfoliated graphene cyclodextrin drug carriers for photoresponsive release. Materials Chemistry and Physics, 2018, 205, 154-163.	4.0	10
20	Differentiating between Nanoparticles and Nanobubbles by Evaluation of the Compressibility and Density of Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 21998-22007.	3.1	70
21	Volcano Plots Emerge from a Sea of Nonaqueous Solvents: The Law of Matching Water Affinities Extends to All Solvents. ACS Central Science, 2018, 4, 1056-1064.	11.3	48
22	Surface Forces and Rheology of Titanium Dioxide in the Presence of Dicarboxylic Acids: From Molecular Interactions to Yield Stress. Langmuir, 2017, 33, 1496-1506.	3.5	7
23	Roughness in Surface Force Measurements: Extension of DLVO Theory To Describe the Forces between Hafnia Surfaces. Journal of Physical Chemistry B, 2017, 121, 6442-6453.	2.6	46
24	What is the fundamental ion-specific series for anions and cations? Ion specificity in standard partial molar volumes of electrolytes and electrostriction in water and non-aqueous solvents. Chemical Science, 2017, 8, 7052-7065.	7.4	101
25	Measurement of long range attractive forces between hydrophobic surfaces produced by vapor phase adsorption of palmitic acid. Soft Matter, 2017, 13, 8910-8921.	2.7	3
26	Forwardâ€Osmosis Desalination with Poly(Ionic Liquid) Hydrogels as Smart Draw Agents. Advanced Materials, 2016, 28, 4156-4161.	21.0	70
27	Cleaning with Bulk Nanobubbles. Langmuir, 2016, 32, 11203-11211.	3.5	189
28	A History of Nanobubbles. Langmuir, 2016, 32, 11086-11100.	3.5	394
29	Specific-ion effects in non-aqueous systems. Current Opinion in Colloid and Interface Science, 2016, 23, 82-93.	7.4	60
30	Reorganization of hydrogen bond network makes strong polyelectrolyte brushes pH-responsive. Science Advances, 2016, 2, e1600579.	10.3	43
31	Mimosa Origami: A nanostructure-enabled directional self-organization regime of materials. Science Advances, 2016, 2, e1600417.	10.3	108
32	Selective separation of oil and water with mesh membranes by capillarity. Advances in Colloid and Interface Science, 2016, 235, 46-55.	14.7	64
33	Mimicking enzymatic systems: modulation of the performance of polymeric organocatalysts by ion-specific effects. Chemical Communications, 2016, 52, 3392-3395.	4.1	9
34	Surface Nanobubbles in Nonaqueous Media: Looking for Nanobubbles in DMSO, Formamide, Propylene Carbonate, Ethylammonium Nitrate, and Propylammonium Nitrate. ACS Nano, 2015, 9, 7596-7607.	14.6	77
35	Surface Forces in Particle Technology: Wet Systems. Procedia Engineering, 2015, 102, 24-34.	1.2	7
36	Flexible Transparent Hierarchical Nanomesh for Rose Petalâ€Like Droplet Manipulation and Lossless Transfer. Advanced Materials Interfaces, 2015, 2, 1500071.	3.7	31

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37	Interfacial and Bulk Nanostructure of Liquid Polymer Nanocomposites. Langmuir, 2015, 31, 3763-3770.	3.5	7
38	Synthesis and chemical modifications of in-situ grown anatase TiO2 microspheres with isotropically exposed {0 0 1} facets for superhydrophobic and self-cleaning properties. Applied Surface Science, 2015, 357, 2022-2027.	6.1	8
39	Superhydrophobic and Superoleophilic Porous Boron Nitride Nanosheet/Polyvinylidene Fluoride Composite Material for Oilâ€Polluted Water Cleanup. Advanced Materials Interfaces, 2015, 2, 1400267.	3.7	125
40	Wetting of nanophases: Nanobubbles, nanodroplets and micropancakes on hydrophobic surfaces. Advances in Colloid and Interface Science, 2015, 222, 9-17.	14.7	71
41	Surface forces: Surface roughness in theory and experiment. Journal of Chemical Physics, 2014, 140, 164701.	3.0	60
42	Cation-Specific Conformational Behavior of Polyelectrolyte Brushes: From Aqueous to Nonaqueous Solvent. Langmuir, 2014, 30, 12850-12859.	3.5	43
43	Stiff chains inhibit and flexible chains promote protein adsorption to polyelectrolyte multilayers. Soft Matter, 2014, 10, 3806-3816.	2.7	14
44	Superhydrophobic and Superoleophilic Boron Nitride Nanotubeâ€Coated Stainless Steel Meshes for Oil and Water Separation. Advanced Materials Interfaces, 2014, 1, 1300002.	3.7	107
45	Porous carbon nanotube/polyvinylidene fluoride composite material: Superhydrophobicity/superoleophilicity and tunability of electrical conductivity. Polymer, 2014, 55, 5616-5622.	3.8	36
46	Surface Forces between Titanium Dioxide Surfaces in the Presence of Cationic Surfactant as a Function of Surfactant Concentration, Electrolyte Concentration, and pH. Langmuir, 2014, 30, 2789-2798.	3.5	12
47	Surface Force Measurements between Titanium Dioxide Surfaces Prepared by Atomic Layer Deposition in Electrolyte Solutions Reveal Non-DLVO Interactions: Influence of Water and Argon Plasma Cleaning. Langmuir, 2014, 30, 2093-2100.	3.5	11
48	Interfacial Nanobubbles Are Leaky: Permeability of the Gas/Water Interface. ACS Nano, 2014, 8, 6193-6201.	14.6	83
49	Coadsorption of Low-Molecular Weight Aromatic and Aliphatic Alcohols and Acids with the Cationic Surfactant, CTAB, on Silica Surfaces. Langmuir, 2014, 30, 6704-6712.	3.5	9
50	Laser Actuation of Cantilevers for Picometre Amplitude Dynamic Force Microscopy. Scientific Reports, 2014, 4, 5567.	3.3	25
51	Adsorption Isotherms and Structure of Cationic Surfactants Adsorbed on Mineral Oxide Surfaces Prepared by Atomic Layer Deposition. Langmuir, 2013, 29, 14748-14755.	3.5	14
52	Model Surfaces Produced by Atomic Layer Deposition. Chemistry Letters, 2012, 41, 1247-1249.	1.3	12
53	Insights into Ion Specificity in Waterâ€“Methanol Mixtures via the Reentrant Behavior of Polymer. Langmuir, 2012, 28, 1893-1899.	3.5	40
54	Direct Measurement of van der Waals and Diffuse Double-Layer Forces between Titanium Dioxide Surfaces Produced by Atomic Layer Deposition. Journal of Physical Chemistry C, 2012, 116, 7838-7847.	3.1	39

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55	A Deliberation on Nanobubbles at Surfaces and in Bulk. ChemPhysChem, 2012, 13, 2179-2187.	2.1	163
56	Very small bubbles at surfacesâ€"the nanobubble puzzle. Soft Matter, 2011, 7, 40-48.	2.7	241
57	Water Droplet Motion Control on Superhydrophobic Surfaces: Exploiting the Wenzel-to-Cassie Transition. Langmuir, 2011, 27, 2595-2600.	3.5	118
58	Reply to Comment on Water Droplet Motion Control on Superhydrophobic Surfaces: Exploiting the Wenzel-to-Cassie Transition. Langmuir, 2011, 27, 13962-13963.	3.5	4
59	Do hydration forces play a role in thin film drainage and rupture observed in electrolyte solutions?. Current Opinion in Colloid and Interface Science, 2011, 16, 597-600.	7.4	31
60	Adsorption of dispersants at a polyester resinâ€"alkane interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 377, 318-324.	4.7	3
61	Macroscopically flat and smooth superhydrophobic surfaces: Heating induced wetting transitions up to the Leidenfrost temperature. Faraday Discussions, 2010, 146, 141.	3.2	31
62	The Link between Ion Specific Bubble Coalescence and Hofmeister Effects Is the Partitioning of Ions within the Interface. Langmuir, 2010, 26, 6478-6483.	3.5	76
63	High Yield Stress Associated with Capillary Attraction between Alumina Surfaces in the Presence of Low Molecular Weight Dicarboxylic Acids. Langmuir, 2010, 26, 3067-3076.	3.5	10
64	Swelling and Collapse of an Adsorbed pH-Responsive Film-Forming Microgel Measured by Optical Reflectometry and QCM. Langmuir, 2010, 26, 14615-14623.	3.5	26
65	Effect of electrolyte species on the adsorption of a cationic surfactant to silica: The common intersection point. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 347, 109-113.	4.7	16
66	Inhibition of Bubble Coalescence by Electrolytes in Binary Mixtures of Dimethyl Sulfoxide and Propylene Carbonate. Langmuir, 2009, 25, 10495-10500.	3.5	11
67	Ion Specific Electrolyte Effects on Thin Film Drainage in Nonaqueous Solvents Propylene Carbonate and Formamide. Langmuir, 2009, 25, 9931-9937.	3.5	11
68	Specific Ion Effects at the Airâ€"Water Interface: Experimental Studies. , 2009, , 191-214.		2
69	Inhibition of Bubble Coalescence by Osmolytes: Sucrose, Other Sugars, and Urea. Langmuir, 2009, 25, 11406-11412.	3.5	30
70	Improved Cleaning of Hydrophilic Protein-Coated Surfaces using the Combination of Nanobubbles and SDS. ACS Applied Materials & Interfaces, 2009, 1, 481-487.	8.0	82
71	Adsorption of the Cationic Surfactant Cetyltrimethylammonium Bromide to Silica in the Presence of Sodium Salicylate: Surface Excess and Kinetics. Langmuir, 2009, 25, 13015-13024.	3.5	22
72	Very slow surfactant adsorption at the solidâ€"liquid interface is due to long lived surface aggregates. Soft Matter, 2009, 5, 3061.	2.7	27

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73	Measurement of no-slip and slip boundary conditions in confined Newtonian fluids using atomic force microscopy. Physical Chemistry Chemical Physics, 2009, 11, 9514.	2.8	32
74	Cleaning using nanobubbles: Defouling by electrochemical generation of bubbles. Journal of Colloid and Interface Science, 2008, 328, 10-14.	9.4	238
75	Cleaning of Protein-Coated Surfaces Using Nanobubbles: An Investigation Using a Quartz Crystal Microbalance. Journal of Physical Chemistry C, 2008, 112, 16748-16753.	3.1	119
76	Roughness of Microspheres for Force Measurements. Langmuir, 2008, 24, 7528-7531.	3.5	35
77	A Mobile Gasâ^'Water Interface in Electrolyte Solutions. Journal of Physical Chemistry C, 2008, 112, 15094-15097.	3.1	57
78	Ion-Specific Influence of Electrolytes on Bubble Coalescence in Nonaqueous Solvents. Langmuir, 2008, 24, 7979-7985.	3.5	56
79	Focused ion beam milling as a universal template technique for patterned growth of carbon nanotubes. Applied Physics Letters, 2007, 90, 093126.	3.3	8
80	Reply to â€œComment on â€˜The Origin of Surface Stress Induced by Adsorption of Iodine on Gold'â€. Journal of Physical Chemistry C, 2007, 111, 8136-8136.	3.1	1
81	Ion-Specific Coalescence of Bubbles in Mixed Electrolyte Solutions. Journal of Physical Chemistry C, 2007, 111, 1015-1023.	3.1	129
82	Sensing Cantilever Beam Bending by the Optical Lever Technique and Its Application to Surface Stress. Journal of Physical Chemistry B, 2006, 110, 5450-5461.	2.6	36
83	Physical Properties of Nanobubbles on Hydrophobic Surfaces in Water and Aqueous Solutions. Langmuir, 2006, 22, 5025-5035.	3.5	380
84	The Origin of Surface Stress Induced by Adsorption of Iodine on Gold. Journal of Physical Chemistry B, 2006, 110, 19507-19514.	2.6	9
85	Physical Properties of Phase-Change Emulsions. Langmuir, 2006, 22, 9538-9545.	3.5	32
86	Experimental Studies of the Dynamic Mechanical Response of a Single Polymer Chain. Macromolecules, 2006, 39, 6180-6185.	4.8	16
87	A Forecast of Developments in Scanned Probe Microscopy. Australian Journal of Chemistry, 2006, 59, 355.	0.9	1
88	Acoustic investigation of cavitation noise from offset ink film splitting. Nordic Pulp and Paper Research Journal, 2006, 21, 314-322.	0.7	0
89	Atomic Force Microscopy Study of the Interaction between Adsorbed Poly(ethylene oxide) Layers:Â Effects of Surface Modification and Approach Velocity. Langmuir, 2005, 21, 2199-2208.	3.5	57
90	Boundary slip in Newtonian liquids: a review of experimental studies. Reports on Progress in Physics, 2005, 68, 2859-2897.	20.1	946

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91	Bubble coalescence and specific-ion effects. Current Opinion in Colloid and Interface Science, 2004, 9, 178-184.	7.4	187
92	A scanning electron microscope study of the surface structure of mineral pigments, latices and thickeners used for paper coating on non-absorbent substrates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 238, 1-11.	4.7	24
93	The effect of surfactant adsorption on liquid boundary slippage. Physica A: Statistical Mechanics and Its Applications, 2004, 339, 60-65.	2.6	38
94	The hydrophobic force: nanobubbles or polymeric contaminant?. Physica A: Statistical Mechanics and Its Applications, 2004, 339, 101-105.	2.6	48
95	Adsorbed layer structure of a weak polyelectrolyte studied by colloidal probe microscopy and QCM-D as a function of pH and ionic strength. Physical Chemistry Chemical Physics, 2004, 6, 2379-2386.	2.8	56
96	Adsorption Pattern of Mixtures of Trimethylammonium-Modified Hydroxyethylcellulose and Sodium Dodecyl Sulfate at Solidâ^'Liquid Interfaces. Langmuir, 2004, 20, 2282-2291.	3.5	24
97	Floc Strength Characterization Technique. An Insight into Silica Aggregation. Langmuir, 2004, 20, 6450-6457.	3.5	24
98	Adsorption and Desorption of Polymer/Surfactant Mixtures at Solidâ^'Liquid Interfaces:Â Substitution Experiments. Langmuir, 2004, 20, 8114-8123.	3.5	26
99	Evidence of shear-dependent boundary slip in newtonian liquids. European Physical Journal E, 2003, 12, 71-74.	1.6	89
100	Determination of coupled solvent mass in quartz crystal microbalance measurements using deuterated solvents. Journal of Colloid and Interface Science, 2003, 262, 126-129.	9.4	62
101	The influence of chain length and electrolyte on the adsorption kinetics of cationic surfactants at the silicaâ€“aqueous solution interface. Journal of Colloid and Interface Science, 2003, 266, 236-244.	9.4	129
102	Mechanism of cationic surfactant adsorption at the solidâ€“aqueous interface. Advances in Colloid and Interface Science, 2003, 103, 219-304.	14.7	557
103	Surface Roughness and Hydrodynamic Boundary Slip of a Newtonian Fluid in a Completely Wetting System. Physical Review Letters, 2003, 90, 144501.	7.8	274
104	Adsorption of 12-s-12 Gemini Surfactants at the Silicaâ^'Aqueous Solution Interface. Journal of Physical Chemistry B, 2003, 107, 2978-2985.	2.6	87
105	Adsorption of Ionic Surfactants to a Plasma Polymer Substrate. Langmuir, 2003, 19, 4222-4227.	3.5	13
106	Application of a Dynamic Atomic Force Microscope for the Measurement of Lubrication Forces and Hydrodynamic Thickness between Surfaces Bearing Adsorbed Polyelectrolyte Layers. Macromolecules, 2003, 36, 2903-2906.	4.8	28
107	Hofmeister Effects in pH Measurements:Â Role of Added Salt and Co-Ions. Journal of Physical Chemistry B, 2003, 107, 2875-2878.	2.6	88
108	Calibration of colloid probe cantilevers using the dynamic viscous response of a confined liquid. Review of Scientific Instruments, 2003, 74, 4026-4032.	1.3	24

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109	Contact Angles of Aqueous Solutions on Copper Surfaces Bearing Self-Assembled Monolayers. Journal of Chemical Education, 2001, 78, 345.	2.3	14
110	Adsorption Kinetics and Structural Arrangements of Cetylpyridinium Bromide at the Silicaâ"Aqueous Interface. Langmuir, 2001, 17, 6155-6163.	3.5	100
111	Colloid Probe Characterization:â€‰ Radius and Roughness Determination. Langmuir, 2001, 17, 2097-2099.	3.5	97
112	In Situ Calibration of Colloid Probe Cantilevers in Force Microscopy:â€‰ Hydrodynamic Drag on a Sphere Approaching a Wall. Langmuir, 2001, 17, 6018-6022.	3.5	86
113	Shear-Dependent Boundary Slip in an Aqueous Newtonian Liquid. Physical Review Letters, 2001, 87, 054504.	7.8	441
114	Elasto-plastic and visco-elastic deformations of a polymer sphere measured using colloid probe and scanning electron microscopy. International Journal of Adhesion and Adhesives, 2000, 20, 445-448.	2.9	28
115	Modification of a Commercial Atomic Force Microscope for Nanorheological Experiments: Adsorbed Polymer Layers. Microscopy and Microanalysis, 2000, 6, 121-128.	0.4	6
116	Ion-beam-induced porosity of GaN. Applied Physics Letters, 2000, 77, 1455-1457.	3.3	71
117	Measurement of the Adhesion of a Viscoelastic Sphere to a Flat Non-Compliant Substrate. Journal of Adhesion, 2000, 74, 125-142.	3.0	16
118	Adsorption Kinetics and Structural Arrangements of Cationic Surfactants on Silica Surfaces. Langmuir, 2000, 16, 9374-9380.	3.5	154
119	Electrochemical Principles for Active Control of Liquids on Submillimeter Scales. Science, 1999, 283, 57-60.	12.6	437
120	Direct Measurement of Hydrophobic Forces:Â A Study of Dissolved Gas, Approach Rate, and Neutron Irradiation. Langmuir, 1999, 15, 1562-1569.	3.5	120
121	Use of the light-lever technique for the measurement of colloidal forces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 144, 1-8.	4.7	9
122	Study of the Long-Range Hydrophobic Attraction in Concentrated Salt Solutions and Its Implications for Electrostatic Models. Langmuir, 1998, 14, 3326-3332.	3.5	93
123	Comment on â€œDeformation of fluid interfaces under double-layer forces stabilizes bubble dispersionsâ€• Physical Review E, 1998, 57, 7362-7363.	2.1	2
124	Effects of Electrolytes on Bubble Coalescence. Langmuir, 1997, 13, 4772-4774.	3.5	25
125	An historical review of surface force measurement techniques. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 129-130, 75-93.	4.7	58
126	Application of the Light-Lever Technique to the Study of Colloidal Forces. Langmuir, 1996, 12, 3557-3562.	3.5	19

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127	Formation of Micronuclei Responsible for Decompression Sickness. Journal of Colloid and Interface Science, 1996, 183, 260-268.	9.4	20
128	The effect of electrolytes on bubble coalescence in water. [Erratum to document cited in CA119(18):189613s]. The Journal of Physical Chemistry, 1994, 98, 1518-1518.	2.9	2
129	Avoiding bends. Nature, 1994, 368, 490-490.	27.8	2
130	Effect of Dissolved Gas and Salt on the Hydrophobic Force between Polypropylene Surfaces. Langmuir, 1994, 10, 2736-2742.	3.5	167
131	Effect of electrolytes on bubble coalescence. Nature, 1993, 364, 317-319.	27.8	307
132	The effect of electrolytes on bubble coalescence in water. The Journal of Physical Chemistry, 1993, 97, 10192-10197.	2.9	465
133	Surface nanobubbles or Knudsen bubbles?. Physics Magazine, 0, 4, .	0.1	6