Colin D Bain

List of Publications by Year
in descending order

70 papers	3,697 citations	147726 31 h-index	128225 60 g-index
74 all docs	74 docs citations	74 times ranked	3171 citing authors

#	Article	IF	Citations
1	Sum-frequency vibrational spectroscopy of the solid/liquid interface. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 1281.	1.7	555
2	Adsorption of CTAB on Hydrophilic Silica Studied by Linear and Nonlinear Optical Spectroscopy. Journal of the American Chemical Society, 2008, 130, 17434-17445.	6.6	223
3	Quantitative analysis of monolayer composition by sum-frequency vibrational spectroscopy. Langmuir, 1991, 7, 1563-1566.	1.6	213
4	Rapid motion of liquid drops. Nature, 1994, 372, 414-415.	13.7	173
5	Sum-Frequency Spectroscopy of Surfactants Adsorbed at a Flat Hydrophobic Surface. The Journal of Physical Chemistry, 1994, 98, 8536-8542.	2.9	145
6	Sum-frequency vibrational spectroscopy of soluble surfactants at the air/water interface. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 515.	1.7	138
7	A Study of Nonionic Surfactants at the Airâˆ'Water Interface by Sum-Frequency Spectroscopy and Ellipsometry. Langmuir, 1999, 15, 1400-1409.	1.6	104
8	Raman spectra of planar supported lipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1711, 59-71.	1.4	94
9	Sum-Frequency Spectroscopy of Surfactant Monolayers at the Oilâˆ'Water Interface. Journal of Physical Chemistry B, 2003, 107, 10801-10814.	1.2	90
10	A general ink formulation of 2D crystals for wafer-scale inkjet printing. Science Advances, 2020, 6, eaba5029.	4.7	89
11	Array Formation in Evanescent Waves. ChemPhysChem, 2006, 7, 329-332.	1.0	86
12	Low-Density Self-Assembled Monolayers on Gold Derived from Chelating 2-Monoalkylpropane-1,3-dithiols. Langmuir, 2000, 16, 541-548.	1.6	79
13	Control of the Particle Distribution in Inkjet Printing through an Evaporation-Driven Solâ€"Gel Transition. ACS Applied Materials & Interfaces, 2014, 6, 9572-9583.	4.0	71
14	Measurement of the Dynamic Surface Excess in an Overflowing Cylinder by Neutron Reflection. Langmuir, 1998, 14, 990-996.	1.6	70
15	Surfactant-Induced Surface Freezing at the Alkane-Water Interface. Physical Review Letters, 2004, 92, 176103.	2.9	69
16	Effect of Chain Length on the Structure of Monolayers of Alkyltrimethylammonium Bromides (CnTABs) at the Airâˆ'Water Interface. Journal of Physical Chemistry B, 1998, 102, 218-222.	1.2	63
17	Total internal reflection spectroscopy for studying soft matter. Soft Matter, 2014, 10, 1071.	1.2	60
18	Total internal reflection Raman spectroscopy. Analyst, The, 2012, 137, 35-48.	1.7	57

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19	Phase transitions in monolayers of medium-chain alcohols on water studied by sum-frequency spectroscopy and ellipsometry. Faraday Discussions, 1996, 104, 209.	1.6	56
20	Phase Transitions in Mixed Monolayers of Cationic Surfactants and Dodecanol at the Air/Water Interface. Journal of Physical Chemistry B, 1999, 103, 4678-4686.	1.2	52
21	Total Internal Reflection Sum-Frequency Spectroscopy:Â A Strategy for Studying Molecular Adsorption on Metal Surfaces. Langmuir, 2000, 16, 2343-2350.	1.6	51
22	Phase Transitions in Mixed Monolayers of Sodium Dodecyl Sulfate and Dodecanol at the Air/Water Interface. Journal of Physical Chemistry B, 1998, 102, 7434-7441.	1.2	50
23	Freezing transitions in mixed surfactant/alkane monolayers at the airâ€"solution interface. Soft Matter, 2006, 2, 66-76.	1.2	46
24	Effects of bulk aggregation on PEIâ€"SDS monolayers at the dynamic airâ€"liquid interface: depletion due to precipitation versus enrichment by a convection/spreading mechanism. Soft Matter, 2013, 9, 6103.	1.2	46
25	A comparative study of confined organic monolayers by Raman scattering and sum-frequency spectroscopy. Vibrational Spectroscopy, 2000, 24, 109-123.	1.2	45
26	First-Order Phase Transition in Mixed Monolayers of Hexadecyltrimethylammonium Bromide and Tetradecane at the Airâ^'Water Interface. Langmuir, 2000, 16, 5853-5855.	1.6	41
27	Optical sculpture: controlled deformation of emulsion droplets with ultralow interfacial tensions using optical tweezers. Chemical Communications, 2006, , 4515.	2.2	41
28	Behavior of silk protein at the airâ€"water interface. Soft Matter, 2012, 8, 9705.	1.2	35
29	Printing Small Dots from Large Drops. ACS Applied Materials & Interfaces, 2015, 7, 3782-3790.	4.0	34
30	Electroanalysis of Ascorbic Acid: A Comparative Study of Laser Ablation Voltammetry and Sonovoltammetry. Electroanalysis, 1998, 10, 613-620.	1.5	33
31	Determination of dynamic surface tension and viscosity of non-Newtonian fluids from drop oscillations. Physics of Fluids, 2014, 26, .	1.6	33
32	Determination of the Optical Properties of Monolayers on Water. Langmuir, 1997, 13, 5465-5469.	1.6	32
33	Interfacial Films and Wetting Behavior of Hexadecane on Aqueous Solutions of Dodecyltrimethylammonium Bromide. Langmuir, 2003, 19, 2249-2253.	1.6	32
34	Surfactant Adsorption Kinetics by Total Internal Reflection Raman Spectroscopy. 2. CTAB and Triton X-100 Mixtures on Silica. Journal of Physical Chemistry B, 2011, 115, 7353-7363.	1.2	32
35	Sum-Frequency Spectroscopy of a Monolayer of Zinc Arachidate at the Solidâ^'Solid Interface. Journal of Physical Chemistry B, 2006, 110, 2278-2292.	1.2	31
36	Wetting in oil/water/surfactant systems. Current Opinion in Colloid and Interface Science, 2012, 17, 196-204.	3.4	31

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37	In Situ Vibrational Spectroscopy of an Organic Monolayer at the Sapphireâˆ'Quartz Interface. Journal of the American Chemical Society, 1998, 120, 203-204.	6.6	29
38	Surfactant Adsorption Kinetics by Total Internal Reflection Raman Spectroscopy. 1. Pure Surfactants on Silica. Journal of Physical Chemistry B, 2011, 115, 7341-7352.	1.2	29
39	Adsorption Kinetics in Binary Surfactant Mixtures Studied with External Reflection FTIR Spectroscopyâ€. Journal of Physical Chemistry C, 2007, 111, 8757-8774.	1.5	27
40	Evaporation of Binary-Mixture Liquid Droplets: The Formation of Picoliter Pancakelike Shapes. Physical Review Letters, 2021, 127, 024501.	2.9	27
41	A new class of self-assembled monolayers: Organic thiols on gallium arsenide. Advanced Materials, 1992, 4, 591-594.	11.1	26
42	Microfluidic generation of monodisperse ultra-low interfacial tension oil droplets in water. RSC Advances, 2015, 5, 8114-8121.	1.7	26
43	Combining Inkjet Printing with Emulsion Solvent Evaporation to Pattern Polymeric Particles. ACS Applied Materials & Interfaces, 2018, 10, 12317-12322.	4.0	25
44	In Situ Fabrication of Polymeric Microcapsules by Ink-Jet Printing of Emulsions. ACS Applied Materials & Interfaces, 2019, 11, 40652-40661.	4.0	24
45	Drying of Ethanol/Water Droplets Containing Silica Nanoparticles. ACS Applied Materials & Interfaces, 2019, 11, 14275-14285.	4.0	24
46	Wetting and Freezing of Hexadecane on an Aqueous Surfactant Solution: Triple Point in a 2-D film. Journal of Physical Chemistry B, 2008, 112, 11664-11668.	1.2	23
47	The overflowing cylinder sixty years on. Advances in Colloid and Interface Science, 2008, 144, 4-12.	7.0	22
48	Total internal reflection (TIR) Raman tribometer: a new tool for in situ study of friction-induced material transfer. RSC Advances, 2013, 3, 5401.	1.7	22
49	Ellipsometric study of the displacement of milk proteins from the oilâ€"water interface by the non-ionic surfactant C10E8. Physical Chemistry Chemical Physics, 2010, 12, 4590.	1.3	21
50	Surfactant adsorption by total internal reflection Raman spectroscopy. Part III: Adsorption onto cellulose. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 391, 10-18.	2.3	21
51	Adsorption kinetics of ammonium perfluorononanoate at the airâ€"water interface. Physical Chemistry Chemical Physics, 2004, 6, 5061-5065.	1.3	20
52	Effect of Surface Freezing on Stability of Oil-in-Water Emulsions. Langmuir, 2018, 34, 6205-6209.	1.6	19
53	Ellipsometric study of depletion at oil-water interfaces. Physical Review E, 2007, 76, 041601.	0.8	18
54	Raman Scattering from Confined Liquid Films in the Sub-Nanometre Regime. Tribology Letters, 2007, 27, 159-167.	1.2	18

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55	Ink-Jet Printing of High-Molecular-Weight Polymers in Oil-in-Water Emulsions. ACS Applied Materials & Interfaces, 2017, 9, 22918-22926.	4.0	18
56	Prospects for detecting metalâ€“adsorbate vibrations by sumâ€frequency spectroscopy. Catalysis Letters, 1999, 61, 7-13.	1.4	17
57	A simple and rapid method for the determination of the surface equations of state and adsorption isotherms for efficient surfactants. Physical Chemistry Chemical Physics, 2003, 5, 4885.	1.3	17
58	Drop-on-demand satellite-free drop formation for precision fluid delivery. Chemical Engineering Science, 2018, 186, 102-115.	1.9	17
59	Fabrication of monolayers of uniform polymeric particles by inkjet printing of monodisperse emulsions produced by microfluidics. Lab on A Chip, 2019, 19, 3077-3085.	3.1	16
60	Total internal reflection Raman spectroscopy of poly(alpha-olefin) oils in a lubricated contact. RSC Advances, 2014, 4, 22205-22213.	1.7	14
61	Nanofluidic networks created and controlled by light. Soft Matter, 2011, 7, 2517.	1.2	13
62	Time-resolved phase-sensitive second harmonic generation spectroscopy. Journal of Chemical Physics, 2015, 142, 084201.	1.2	12
63	Mechanical Characterization of Ultralow Interfacial Tension Oil-in-Water Droplets by Thermal Capillary Wave Analysis in a Microfluidic Device. Langmuir, 2016, 32, 3580-3586.	1.6	10
64	Changes in molecular composition and packing during lipidmembrane reconstitution from phospholipidâ€“surfactant micelles. Soft Matter, 2009, 5, 568-575.	1.2	9
65	Morphological Transformations in Solid Domains of Alkanes on Surfactant Solutions. Journal of Physical Chemistry Letters, 2013, 4, 844-848.	2.1	8
66	Penetration of surfactant solutions into hydrophobic capillaries. Physical Chemistry Chemical Physics, 2005, 7, 3048.	1.3	7
67	Wetting and Drying of Aqueous Droplets Containing Nonionic Surfactants C_{<i>n</i>}E_{<i>m</i>}. Langmuir, 2021, 37, 4091-4101.	1.6	7
68	Evaporation of a thin droplet in a shallow well: theory and experiment. Journal of Fluid Mechanics, 2021, 927, .	1.4	7
69	Compare and contrast polyethylene and DNA. Soft Matter, 2006, 2, 101.	1.2	0
70	Comparative Study of Lipid- and Polymer-Supported Membranes Obtained by Vesicle Fusion. Langmuir, 2022, 38, 5674-5681.	1.6	0