Arnaud Saint-jalmes

List of Publications by Citations

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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.

90 papers	3,301 citations	31 h-index	56 g-index
101 ext. papers	3,696 ext. citations	4.6 avg, IF	5.46 L-index

#	Paper	IF	Citations
90	Physical chemistry in foam drainage and coarsening. *Soft Matter*, **2006**, 2, 836-849	3.6	254
89	Foams **2013**,		206
88	Photomanipulation of a droplet by the chromocapillary effect. *Angewandte Chemie - International Edition*, **2009**, 48, 9281-4	16.4	194
87	On the origin of the remarkable stability of aqueous foams stabilised by nanoparticles: link with microscopic surface properties. *Soft Matter*, **2008**, 4, 1531-1535	3.6	179
86	Smart foams: switching reversibly between ultrastable and unstable foams. *Angewandte Chemie - International Edition*, **2011**, 50, 8264-9	16.4	138
85	Vanishing elasticity for wet foams: Equivalence with emulsions and role of polydispersity. *Journal of Rheology*, **1999**, 43, 1411-1422	4.1	136
84	The science of foaming. *Advances in Colloid and Interface Science*, **2015**, 222, 228-59	14.3	127
83	Differences between protein and surfactant foams: Microscopic properties, stability and coarsening. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2005**, 263, 219-225	5.1	125
82	Scattering optics of foam. *Applied Optics*, **2001**, 40, 4210-4	1.7	108
81	Time evolution of aqueous foams: drainage and coarsening. *Journal of Physics Condensed Matter*, **2002**, 14, 9397-9412	1.8	101
80	Quantitative description of foam drainage: transitions with surface mobility. *European Physical Journal E*, **2004**, 15, 53-60	1.5	96
79	Surfactant foams doped with laponite: unusual behaviors induced by aging and confinement. *Soft Matter*, **2009**, 5, 4975	3.6	88
78	Responsive aqueous foams. *ChemPhysChem*, **2015**, 16, 66-75	3.2	78
77	Dual gas and oil dispersions in water: production and stability of foamulsion. *Soft Matter*, **2012**, 8, 699-706	3.6	74
76	Electrical conductivity of dispersions: from dry foams to dilute suspensions. *Journal of Physics Condensed Matter*, **2005**, 17, 6301-6305	1.8	68
75	Responsive self-assemblies based on fatty acids. *Current Opinion in Colloid and Interface Science*, **2014**, 19, 471-479	7.6	67
74	Uniform foam production by turbulent mixing: new results on free drainage vs. liquid content. *European Physical Journal B*, **1999**, 12, 67-73	1.2	67

73	Oscillatory rheology of aqueous foams: surfactant, liquid fraction, experimental protocol and aging effects. *Soft Matter*, **2009**, 5, 1937	3.6	63
72	Non-aqueous foams: Current understanding on the formation and stability mechanisms. *Advances in Colloid and Interface Science*, **2017**, 247, 454-464	14.3	58
71	Aqueous foam slip and shear regimes determined by rheometry and multiple light scattering. *Journal of Rheology*, **2008**, 52, 1091-1111	4.1	56
70	Development of casein microgels from cross-linking of casein micelles by genipin. *Langmuir*, **2014**, 30, 10167-75	4	52
69	Protein and surfactant foams: linear rheology and dilatancy effect. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2005**, 263, 121-128	5.1	52
68	Marangoni Flow of Soluble Amphiphiles. *Physical Review Letters*, **2014**, 112,	7.4	51
67	Viscosity effects in foam drainage: Newtonian and non-newtonian foaming fluids. *European Physical Journal E*, **2006**, 19, 195-202	1.5	51
66	Smart Nonaqueous Foams from Lipid-Based Oleogel. *Langmuir*, **2015**, 31, 13501-10	4	48
65	Free drainage of aqueous foams: Container shape effects on capillarity and vertical gradients. *Europhysics Letters*, **2000**, 50, 695-701	1.6	44
64	Photomanipulation of a Droplet by the Chromocapillary Effect. *Angewandte Chemie*, **2009**, 121, 9445-9448	3.6	41
63	Buckling in a solid Langmuir monolayer: light scattering measurements and elastic model. *European Physical Journal B*, **1998**, 2, 489-494	1.2	41
62	Instabilities in a liquid-fluidized bed of gas bubbles. *Physical Review Letters*, **2000**, 84, 3001-4	7.4	38
61	Strong improvement of interfacial properties can result from slight structural modifications of proteins: the case of native and dry-heated lysozyme. *Langmuir*, **2011**, 27, 14947-57	4	35
60	Light induced flows opposing drainage in foams and thin-films using photosurfactants. *Soft Matter*, **2013**, 9, 7054	3.6	31
59	Propagation of ultrasound in aqueous foams: bubble size dependence and resonance effects. *Soft Matter*, **2013**, 9, 1194-1202	3.6	29
58	Buckling of a Bidimensional Solid. *Europhysics Letters*, **1994**, 28, 565-571	1.6	26
57	Diffusive liquid propagation in porous and elastic materials: the case of foams under microgravity conditions. *Physical Review Letters*, **2007**, 98, 058303	7.4	25
56	Solutions of surfactant oligomers: a model system for tuning foam stability by the surfactant structure. *Soft Matter*, **2010**, 6, 2271	3.6	24

55	Bubble motion measurements during foam drainage and coarsening. *Journal of Colloid and Interface Science*, **2006**, 300, 735-43	9.3	24
54	Dynamics of poly-nipam chains in competition with surfactants at liquid interfaces: from thermoresponsive interfacial rheology to foams. *Soft Matter*, **2013**, 9, 1344-1353	3.6	20
53	Smart Foams: Switching Reversibly between Ultrastable and Unstable Foams. *Angewandte Chemie*, **2011**, 123, 8414-8419	3.6	20
52	A systematic and quantitative study of the link between foam slipping and interfacial viscoelasticity. *Langmuir*, **2009**, 25, 13412-8	4	20
51	Aqueous foam drainage. Role of the rheology of the foaming fluid. *European Physical Journal Special Topics*, **2001**, 11, Pr6-275-Pr6-280		17
50	Design of responsive foams with an adjustable temperature threshold of destabilization. *Soft Matter*, **2018**, 14, 2578-2581	3.6	16
49	Fluid dynamics of rivulet flow between plates. *Physics of Fluids*, **2007**, 19, 102101	4.4	16
48	Soluble surfactant spreading: How the amphiphilicity sets the Marangoni hydrodynamics. *Physical Review E*, **2016**, 93, 013107	2.4	15
47	Effect of cosurfactant on the free-drainage regime of aqueous foams. *Journal of Colloid and Interface Science*, **2005**, 292, 544-7	9.3	15
46	Gradual disaggregation of the casein micelle improves its emulsifying capacity and decreases the stability of dairy emulsions. *Food Hydrocolloids*, **2017**, 63, 189-200	10.6	14
45	Interfacial properties, film dynamics and bulk rheology: A multi-scale approach to dairy protein foams. *Journal of Colloid and Interface Science*, **2019**, 542, 222-232	9.3	12
44	Two-mode dynamics in dispersed systems: the case of particle-stabilized foams studied by diffusing wave spectroscopy. *Physical Chemistry Chemical Physics*, **2011**, 13, 3064-72	3.6	12
43	Development of an aqueous two-phase emulsion using hydrophobized whey proteins and erythritol. *Food Hydrocolloids*, **2019**, 93, 351-360	10.6	11
42	Contact angle and surface tension of water on a hexagonal boron nitride monolayer: a methodological investigation. *Molecular Simulation*, **2019**, 45, 454-461	2	11
41	Yielding and flow of solutions of thermoresponsive surfactant tubes: tuning macroscopic rheology by supramolecular assemblies. *Soft Matter*, **2014**, 10, 3622-32	3.6	11
40	How foams unstable on Earth behave in microgravity?. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 457, 392-396	5.1	11
39	Swelling of a single foam film under slipping. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 304, 72-76	5.1	11
38	Recent Advances in Understanding and Use of Oleofoams. *Frontiers in Sustainable Food Systems*, **2020**, 4,	4.8	11

37	Morphological Transition in Fatty Acid Self-Assemblies: A Process Driven by the Interplay between the Chain-Melting and Surface-Melting Process of the Hydrogen Bonds. *Langmuir*, **2017**, 33, 12943-12951	4	10
36	Controlling Foam Stability with the Ratio of Myristic Acid to Choline Hydroxide. *Langmuir*, **2018**, 34, 11076-11085	4	10
35	Investigating acoustic-induced deformations in a foam using multiple light scattering. *Physical Review E*, **2010**, 82, 021409	2.4	9
34	Foam stability in microgravity. *Journal of Physics: Conference Series*, **2011**, 327, 012024	0.3	9
33	Experiments and simulations of liquid imbibition in aqueous foams under microgravity. *Microgravity Science and Technology*, **2006**, 18, 108-111	1.6	9
32	Disjoining Pressures and Ordering in Thin Liquid Films Containing Charged Diblock Copolymers Adsorbed at the Interfaces. *Langmuir*, **2002**, 18, 2103-2110	4	9
31	Surface Tension and Compression Modulus Anisotropies of a Phospholipid Monolayer Spread on Water and on Formamide. *Journal of Physical Chemistry B*, **1998**, 102, 5810-5815	3.4	9
30	Sound propagation in liquid foams: Unraveling the balance between physical and chemical parameters. *Physical Review E*, **2015**, 91, 042311	2.4	8
29	Probing the dynamics of particles in an aging dispersion using diffusing wave spectroscopy. *Soft Matter*, **2012**, 8, 7683	3.6	8
28	Foam experiments in parabolic flights: Development of an ISS facility and capillary drainage experiments. *Microgravity Science and Technology*, **2006**, 18, 22-30	1.6	8
27	Structure of bidimensional phospholipidic crystallites on formamide determined by X-ray diffraction. *Chemical Physics Letters*, **1995**, 240, 234-238	2.5	7
26	How foam stability against drainage is affected by conditions of prior whey protein powder storage and dry-heating: A multidimensional experimental approach. *Journal of Food Engineering*, **2019**, 242, 153-162	6	7
25	Thermodynamics of binary gas adsorption in nanopores. *Physical Chemistry Chemical Physics*, **2016**, 18, 24361-9	3.6	6
24	Influence of bubble size and thermal dissipation on compressive wave attenuation in liquid foams. *Europhysics Letters*, **2015**, 112, 34001	1.6	5
23	Boron Effect on Sugar-Based Organogelators. *Chemistry - A European Journal*, **2020**, 26, 13927-13934	4.8	4
22	Blast wave attenuation in liquid foams: role of gas and evidence of an optimal bubble size. *Soft Matter*, **2016**, 12, 8015-8024	3.6	4
21	Foams and emulsions in space. *Europhysics News*, **2008**, 39, 26-28	0.2	4
20	Reply to the Comment by S. J. Cox and D. Weaire on "Free drainage of aqueous foams: Container shape effects on capillarity and vertical gradients". *Europhysics Letters*, **2001**, 55, 447-448	1.6	4

19	Enhanced interfacial deformation in a Marangoni flow: A measure of the dynamical surface tension. *Physical Review Fluids*, **2018**, 3,	2.8	4
18	Rayleigh-Taylor-like instability in a foam film. *Physical Review Fluids*, **2019**, 4,	2.8	4
17	Water/oil/water thin films: construction and applications **2001**, 1-4		4
16	Titelbild: Photomanipulation of a Droplet by the Chromocapillary Effect (Angew. Chem. 49/2009). *Angewandte Chemie*, **2009**, 121, 9361-9361	3.6	3
15	Phospholipidic Monolayers on Formamide. *Journal De Physique II*, **1995**, 5, 313-322		3
14	The Acoustics of Liquid Foams. *Current Opinion in Colloid and Interface Science*, **2020**, 50, 101391	7.6	2
13	Stability of a directional Marangoni flow. *Soft Matter*, **2020**, 16, 8933-8939	3.6	2
12	Skin layer stratification in drying droplets of dairy colloids. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 620, 126560	5.1	2
11	Synchronized diffusive-wave spectroscopy: Principle and application to sound propagation in aqueous foams. *Physical Review E*, **2016**, 93, 032611	2.4	1
10	Shaving foam: A complex system for acoustic wave propagation **2013**,		1
9	Probing acoustics of liquid foams by optical diffusive wave spectroscopy **2013**,		1
8	Foams **2004**,		1
7	Self-Propulsion of a Volatile Drop on the Surface of an Immiscible Liquid Bath. *Physical Review Letters*, **2021**, 127, 144501	7.4	1
6	Microphotonics for monitoring the supramolecular thermoresponsive behavior of fatty acid surfactant solutions. *Optics Communications*, **2020**, 468, 125773	2	0
5	Les acides gras hydroxyl[illegible] : agro-tensioactifs aux propri[illegible] moussantes originales. *Oleagineux Corps Gras Lipides*, **2013**, 20, 8-15		
4	Cover Picture: Photomanipulation of a Droplet by the Chromocapillary Effect (Angew. Chem. Int. Ed. 49/2009). *Angewandte Chemie - International Edition*, **2009**, 48, 9197-9197	16.4	
3	Foam Formation Techniques **2018**, 199-212		
2	Fundamentals of Foam Formation **2018**, 185-198		

1 Surfactant-Stabilized Foams **2018**, 245-260