

# Arnaud Saint-jalmes

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

4,017  
citations

159358

30  
h-index

128067

60  
g-index

101  
all docs

101  
docs citations

101  
times ranked

2960  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical chemistry in foam drainage and coarsening. <i>Soft Matter</i> , 2006, 2, 836.	1.2	310
2	Photomanipulation of a Droplet by the Chromocapillary Effect. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9281-9284.	7.2	223
3	On the origin of the remarkable stability of aqueous foams stabilised by nanoparticles: link with microscopic surface properties. <i>Soft Matter</i> , 2008, 4, 1531.	1.2	202
4	The science of foaming. <i>Advances in Colloid and Interface Science</i> , 2015, 222, 228-259.	7.0	190
5	Smart Foams: Switching Reversibly between Ultrastable and Unstable Foams. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8264-8269.	7.2	163
6	Vanishing elasticity for wet foams: Equivalence with emulsions and role of polydispersity. <i>Journal of Rheology</i> , 1999, 43, 1411-1422.	1.3	151
7	Differences between protein and surfactant foams: Microscopic properties, stability and coarsening. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 263, 219-225.	2.3	146
8	Scattering optics of foam. <i>Applied Optics</i> , 2001, 40, 4210.	2.1	123
9	Time evolution of aqueous foams: drainage and coarsening. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 9397-9412.	0.7	114
10	Quantitative description of foam drainage: Transitions with surface mobility. <i>European Physical Journal E</i> , 2004, 15, 53-60.	0.7	104
11	Surfactant foams doped with laponite: unusual behaviors induced by aging and confinement. <i>Soft Matter</i> , 2009, 5, 4975.	1.2	97
12	Responsive Aqueous Foams. <i>ChemPhysChem</i> , 2015, 16, 66-75.	1.0	95
13	Dual gas and oil dispersions in water: production and stability of foamulsion. <i>Soft Matter</i> , 2012, 8, 699-706.	1.2	86
14	Electrical conductivity of dispersions: from dry foams to dilute suspensions. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 6301-6305.	0.7	84
15	Non-aqueous foams: Current understanding on the formation and stability mechanisms. <i>Advances in Colloid and Interface Science</i> , 2017, 247, 454-464.	7.0	82
16	Marangoni Flow of Soluble Amphiphiles. <i>Physical Review Letters</i> , 2014, 112, .	2.9	80
17	Responsive self-assemblies based on fatty acids. <i>Current Opinion in Colloid and Interface Science</i> , 2014, 19, 471-479.	3.4	79
18	Uniform foam production by turbulent mixing: new results on free drainage vs. liquid content. <i>European Physical Journal B</i> , 1999, 12, 67-73.	0.6	72

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19	Oscillatory rheology of aqueous foams: surfactant, liquid fraction, experimental protocol and aging effects. <i>Soft Matter</i> , 2009, 5, 1937.	1.2	71
20	Smart Nonaqueous Foams from Lipid-Based Oleogel. <i>Langmuir</i> , 2015, 31, 13501-13510.	1.6	68
21	Development of Casein Microgels from Cross-Linking of Casein Micelles by Genipin. <i>Langmuir</i> , 2014, 30, 10167-10175.	1.6	67
22	Aqueous foam slip and shear regimes determined by rheometry and multiple light scattering. <i>Journal of Rheology</i> , 2008, 52, 1091-1111.	1.3	65
23	Viscosity effects in foam drainage: Newtonian and non-newtonian foaming fluids. <i>European Physical Journal E</i> , 2006, 19, 195-202.	0.7	62
24	Protein and surfactant foams: linear rheology and dilatancy effect. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 263, 121-128.	2.3	53
25	Free drainage of aqueous foams: Container shape effects on capillarity and vertical gradients. <i>Europhysics Letters</i> , 2000, 50, 695-701.	0.7	49
26	Buckling in a solid Langmuir monolayer: light scattering measurements and elastic model. <i>European Physical Journal B</i> , 1998, 2, 489-494.	0.6	43
27	Strong Improvement of Interfacial Properties Can Result from Slight Structural Modifications of Proteins: The Case of Native and Dry-Heated Lysozyme. <i>Langmuir</i> , 2011, 27, 14947-14957.	1.6	40
28	Instabilities in a Liquid-Fluidized Bed of Gas Bubbles. <i>Physical Review Letters</i> , 2000, 84, 3001-3004.	2.9	39
29	Light induced flows opposing drainage in foams and thin-films using photosurfactants. <i>Soft Matter</i> , 2013, 9, 7054.	1.2	35
30	Propagation of ultrasound in aqueous foams: bubble size dependence and resonance effects. <i>Soft Matter</i> , 2013, 9, 1194-1202.	1.2	30
31	Bubble motion measurements during foam drainage and coarsening. <i>Journal of Colloid and Interface Science</i> , 2006, 300, 735-743.	5.0	29
32	Recent Advances in Understanding and Use of Oleofoams. <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	1.8	29
33	Solutions of surfactant oligomers: a model system for tuning foam stability by the surfactant structure. <i>Soft Matter</i> , 2010, 6, 2271.	1.2	28
34	Buckling of a Bidimensional Solid. <i>Europhysics Letters</i> , 1994, 28, 565-571.	0.7	27
35	Diffusive Liquid Propagation in Porous and Elastic Materials: The Case of Foams under Microgravity Conditions. <i>Physical Review Letters</i> , 2007, 98, 058303.	2.9	27
36	Dynamics of poly-nipam chains in competition with surfactants at liquid interfaces: from thermoresponsive interfacial rheology to foams. <i>Soft Matter</i> , 2013, 9, 1344-1353.	1.2	24

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37	Soluble surfactant spreading: How the amphiphilicity sets the Marangoni hydrodynamics. <i>Physical Review E</i> , 2016, 93, 013107.	0.8	23
38	Gradual disaggregation of the casein micelle improves its emulsifying capacity and decreases the stability of dairy emulsions. <i>Food Hydrocolloids</i> , 2017, 63, 189-200.	5.6	22
39	Design of responsive foams with an adjustable temperature threshold of destabilization. <i>Soft Matter</i> , 2018, 14, 2578-2581.	1.2	22
40	Fluid dynamics of rivulet flow between plates. <i>Physics of Fluids</i> , 2007, 19, .	1.6	21
41	Aqueous foam drainage. Role of the rheology of the foaming fluid. <i>European Physical Journal Special Topics</i> , 2001, 11, Pr6-275-Pr6-280.	0.2	20
42	A Systematic and Quantitative Study of the Link between Foam Slipping and Interfacial Viscoelasticity. <i>Langmuir</i> , 2009, 25, 13412-13418.	1.6	20
43	Contact angle and surface tension of water on a hexagonal boron nitride monolayer: a methodological investigation. <i>Molecular Simulation</i> , 2019, 45, 454-461.	0.9	20
44	Development of an aqueous two-phase emulsion using hydrophobized whey proteins and erythritol. <i>Food Hydrocolloids</i> , 2019, 93, 351-360.	5.6	18
45	Effect of cosurfactant on the free-drainage regime of aqueous foams. <i>Journal of Colloid and Interface Science</i> , 2005, 292, 544-547.	5.0	16
46	Interfacial properties, film dynamics and bulk rheology: A multi-scale approach to dairy protein foams. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 222-232.	5.0	16
47	Skin layer stratification in drying droplets of dairy colloids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 620, 126560.	2.3	16
48	How foams unstable on Earth behave in microgravity?. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 457, 392-396.	2.3	15
49	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. <i>Langmuir</i> , 2017, 33, 12943-12951.	1.6	15
50	Yielding and flow of solutions of thermoresponsive surfactant tubes: tuning macroscopic rheology by supramolecular assemblies. <i>Soft Matter</i> , 2014, 10, 3622.	1.2	14
51	Two-mode dynamics in dispersed systems: the case of particle-stabilized foams studied by diffusing wave spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3064-3072.	1.3	13
52	Swelling of a single foam film under slipping. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 304, 72-76.	2.3	12
53	Controlling Foam Stability with the Ratio of Myristic Acid to Choline Hydroxide. <i>Langmuir</i> , 2018, 34, 11076-11085.	1.6	12
54	Investigating acoustic-induced deformations in a foam using multiple light scattering. <i>Physical Review E</i> , 2010, 82, 021409.	0.8	10

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55	Foam stability in microgravity. <i>Journal of Physics: Conference Series</i> , 2011, 327, 012024.	0.3	10
56	Surface Tension and Compression Modulus Anisotropies of a Phospholipid Monolayer Spread on Water and on Formamide. <i>Journal of Physical Chemistry B</i> , 1998, 102, 5810-5815.	1.2	9
57	Disjoining Pressures and Ordering in Thin Liquid Films Containing Charged Diblock Copolymers Adsorbed at the Interfaces. <i>Langmuir</i> , 2002, 18, 2103-2110.	1.6	9
58	Experiments and simulations of liquid imbibition in aqueous foams under microgravity. <i>Microgravity Science and Technology</i> , 2006, 18, 108-111.	0.7	9
59	Foam experiments in parabolic flights: Development of an ISS facility and capillary drainage experiments. <i>Microgravity Science and Technology</i> , 2006, 18, 22-30.	0.7	9
60	Probing the dynamics of particles in an aging dispersion using diffusing wave spectroscopy. <i>Soft Matter</i> , 2012, 8, 7683.	1.2	9
61	Sound propagation in liquid foams: Unraveling the balance between physical and chemical parameters. <i>Physical Review E</i> , 2015, 91, 042311.	0.8	9
62	How foam stability against drainage is affected by conditions of prior whey protein powder storage and dry-heating: A multidimensional experimental approach. <i>Journal of Food Engineering</i> , 2019, 242, 153-162.	2.7	9
63	Self-Propulsion of a Volatile Drop on the Surface of an Immiscible Liquid Bath. <i>Physical Review Letters</i> , 2021, 127, 144501.	2.9	9
64	The Acoustics of Liquid Foams. <i>Current Opinion in Colloid and Interface Science</i> , 2020, 50, 101391.	3.4	8
65	Boron Effect on Sugar-Based Organogelators. <i>Chemistry - A European Journal</i> , 2020, 26, 13927-13934.	1.7	8
66	Rayleigh-Taylor-like instability in a foam film. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	8
67	Structure of bidimensional phospholipidic crystallites on formamide determined by X-ray diffraction. <i>Chemical Physics Letters</i> , 1995, 240, 234-238.	1.2	7
68	Enhanced interfacial deformation in a Marangoni flow: A measure of the dynamical surface tension. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	7
69	Thermodynamics of binary gas adsorption in nanopores. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24361-24369.	1.3	6
70	Microphotonics for monitoring the supramolecular thermoresponsive behavior of fatty acid surfactant solutions. <i>Optics Communications</i> , 2020, 468, 125773.	1.0	6
71	Influence of bubble size and thermal dissipation on compressive wave attenuation in liquid foams. <i>Europhysics Letters</i> , 2015, 112, 34001.	0.7	5
72	Stability of a directional Marangoni flow. <i>Soft Matter</i> , 2020, 16, 8933-8939.	1.2	5

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73	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". <i>Europhysics Letters</i> , 2001, 55, 447-448.	0.7	4
74	Foams and emulsions in space. <i>Europhysics News</i> , 2008, 39, 26-28.	0.1	4
75	Blast wave attenuation in liquid foams: role of gas and evidence of an optimal bubble size. <i>Soft Matter</i> , 2016, 12, 8015-8024.	1.2	4
76	Water/oil/water thin films: construction and applications. , 2001, , 1-4.		4
77	Titelbild: Photomanipulation of a Droplet by the Chromocapillary Effect ( <i>Angew. Chem.</i> 49/2009). <i>Angewandte Chemie</i> , 2009, 121, 9361-9361.	1.6	3
78	Phospholipidic Monolayers on Formamide. <i>Journal De Physique II</i> , 1995, 5, 313-322.	0.9	3
79	Non linear elasticity of foam films made of SDS/dodecanol mixtures. <i>Soft Matter</i> , 2022, 18, 2046-2053.	1.2	2
80	Berichtigung: Smart Foams: Switching Reversibly between Ultrastable and Unstable Foams. <i>Angewandte Chemie</i> , 2011, 123, 12030-12030.	1.6	1
81	Shaving foam: A complex system for acoustic wave propagation. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	1
82	Probing acoustics of liquid foams by optical diffusive wave spectroscopy. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	1
83	Synchronized diffusive-wave spectroscopy: Principle and application to sound propagation in aqueous foams. <i>Physical Review E</i> , 2016, 93, 032611.	0.8	1
84	Cover Picture: Photomanipulation of a Droplet by the Chromocapillary Effect ( <i>Angew. Chem. Int. Ed.</i> ) Tj ETQq0 0 0 rBT /Overlock 10 Tf	0.2	0
85	Les acides gras hydroxylés : agro-tensioactifs aux propriétés moussantes originales. <i>Oleagineux Corps Gras Lipides</i> , 2013, 20, 8-15.	0.2	0
86	Foam Formation Techniques. , 2018, , 199-212.		0
87	Fundamentals of Foam Formation. , 2018, , 185-198.		0
88	About monitoring the dynamics of phase transition in food and biology by micro-photonics: detecting soft-matter process. , 2020, , .		0
89	Poster: Thermal active drops. , 0, , .		0
90	Coarsening and rheology of casein and surfactant foams. <i>Special Publication - Royal Society of Chemistry</i> , 0, , 273-283.	0.0	0