

# Benoit Scheid

## List of Publications by Year in descending order

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96  
papers

2,233  
citations

236612

25  
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243296

44  
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102  
all docs

102  
docs citations

102  
times ranked

1391  
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear stability analysis of nonisothermal glass fiber drawing. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	1
2	On the effect of electrostatic surface forces on dielectric falling films. <i>Journal of Fluid Mechanics</i> , 2021, 906, .	1.4	6
3	Two-dimensional modelling of transient capillary driven damped micro-oscillations and self-alignment of objects in microassembly. <i>Journal of Fluid Mechanics</i> , 2021, 910, .	1.4	2
4	Hydrodynamic-driven morphogenesis of karst draperies: spatio-temporal analysis of the two-dimensional impulse response. <i>Journal of Fluid Mechanics</i> , 2021, 910, .	1.4	7
5	Dynamics of the jet wiping process via integral models. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	1.4	7
6	Concentration Gradients in Material Sciences: Methods to Design and Biomedical Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2009005.	7.8	38
7	Effect of insoluble surfactants on a thermocapillary flow. <i>Physics of Fluids</i> , 2021, 33, .	1.6	5
8	Statics and dynamics of a viscous ligament drawn out of a pure-liquid bath. <i>Journal of Fluid Mechanics</i> , 2021, 922, .	1.4	6
9	Dip-coating flow in the presence of two immiscible liquids. <i>Journal of Fluid Mechanics</i> , 2021, 922, .	1.4	2
10	Spanwise structuring and rivulet formation in suspended falling liquid films. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	2
11	Hydrodynamic-driven morphogenesis of karst draperies: spatio-temporal analysis of the two-dimensional impulse response " CORRIGENDUM. <i>Journal of Fluid Mechanics</i> , 2021, 926, .	1.4	0
12	An alternative choice of the boundary condition for the arbitrary Lagrangian-Eulerian method. <i>Journal of Computational Physics</i> , 2021, 443, 110494.	1.9	4
13	Influence of the inlet velocity profile on the flow stability in a symmetric channel expansion. <i>Journal of Fluid Mechanics</i> , 2021, 909, .	1.4	3
14	A practical method to characterize proton exchange membrane fuel cell catalyst layer topography: Application to two coating techniques and two carbon supports. <i>Thin Solid Films</i> , 2020, 695, 137751.	0.8	7
15	Natural break-up and satellite formation regimes of surfactant-laden liquid threads. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	1.4	23
16	Bubbles determine the amount of alcohol in Mezcal. <i>Scientific Reports</i> , 2020, 10, 11014.	1.6	11
17	Microfluidic droplet generation based on non-embedded co-flow-focusing using 3D printed nozzle. <i>Scientific Reports</i> , 2020, 10, 21616.	1.6	38
18	Lifetime of Surface Bubbles in Surfactant Solutions. <i>Langmuir</i> , 2020, 36, 7749-7764.	1.6	17

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19	On the effect of flow restrictions on the nucleation behavior of molecules in tubular flow Nucleators. <i>Journal of Flow Chemistry</i> , 2020, 10, 241-249.	1.2	7
20	Delayed bubble entrapment during the drop impact on a bounded liquid bath. <i>AIP Advances</i> , 2019, 9, .	0.6	4
21	The creation and testing of a fully continuous tubular crystallization device suited for incorporation into flow chemistry setups. <i>Journal of Flow Chemistry</i> , 2019, 9, 237-249.	1.2	8
22	The coupling of in-flow reaction with continuous flow seedless tubular crystallization. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 516-522.	1.9	10
23	Controlling the lifetime of antibubbles. <i>Advances in Colloid and Interface Science</i> , 2019, 270, 73-86.	7.0	29
24	Mass transfer around bubbles flowing in cylindrical microchannels. <i>Journal of Fluid Mechanics</i> , 2019, 869, 110-142.	1.4	11
25	Bubble dynamics in microchannels: inertial and capillary migration forces. <i>Journal of Fluid Mechanics</i> , 2018, 842, 215-247.	1.4	24
26	Prediction of two-dimensional dripping onset of a liquid film under an inclined plane. <i>International Journal of Multiphase Flow</i> , 2018, 104, 286-293.	1.6	19
27	Three-dimensional Rayleigh-Taylor instability under a unidirectional curved substrate. <i>Journal of Fluid Mechanics</i> , 2018, 837, 19-47.	1.4	19
28	Dewetting of Thin Liquid Films Surrounding Air Bubbles in Microchannels. <i>Langmuir</i> , 2018, 34, 1363-1370.	1.6	22
29	Adaptive stitching for meso-scale printing with two-photon lithography. <i>Additive Manufacturing</i> , 2018, 21, 589-597.	1.7	16
30	Bubble dynamics in microchannels: inertial and capillary migration forces – CORRIGENDUM. <i>Journal of Fluid Mechanics</i> , 2018, 855, 1242-1245.	1.4	5
31	Continuous-Flow Tubular Crystallization To Discriminate between Two Competing Crystal Polymorphs. 1. Cooling Crystallization. <i>Crystal Growth and Design</i> , 2018, 18, 6431-6439.	1.4	26
32	Continuous-Flow Tubular Crystallization To Discriminate between Two Competing Crystal Polymorphs. 2. Antisolvent Crystallization. <i>Crystal Growth and Design</i> , 2018, 18, 6440-6447.	1.4	14
33	How to measure the thickness of a lubrication film in a pancake bubble with a single snapshot?. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	2
34	WaveMaker: The three-dimensional wave simulation tool for falling liquid films. <i>SoftwareX</i> , 2018, 7, 211-216.	1.2	8
35	Influence of Soluble Surfactants and Deformation on the Dynamics of Centered Bubbles in Cylindrical Microchannels. <i>Langmuir</i> , 2018, 34, 10048-10062.	1.6	24
36	Experimental investigations of liquid falling films flowing under an inclined planar substrate. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	24

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37	Zero overlap stitching of microlens arrays with two-photon polymerisation. , 2018, , .		1
38	Continuous separation, with microfluidics, of the components of a ternary mixture: from vacuum to purge gas pervaporation. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	1.0	4
39	Low Kapitza falling liquid films. <i>Chemical Engineering Science</i> , 2017, 170, 122-138.	1.9	24
40	The break-up of free films pulled out of a pure liquid bath. <i>Journal of Fluid Mechanics</i> , 2017, 811, 499-524.	1.4	21
41	Dynamics of falling films on the outside of a vertical rotating cylinder: waves, rivulets and dripping transitions. <i>Journal of Fluid Mechanics</i> , 2017, 832, 189-211.	1.4	24
42	Two-dimensional modeling of an absorbing falling film in its development zone. <i>AIChE Journal</i> , 2017, 63, 4370-4378.	1.8	0
43	Hydrodynamic waves in films flowing under an inclined plane. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	31
44	Effect of buoyancy on the motion of long bubbles in horizontal tubes. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	11
45	Combined influence of inertia, gravity, and surface tension on the linear stability of Newtonian fiber spinning. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	13
46	Critical inclination for absolute/convective instability transition in inverted falling films. <i>Physics of Fluids</i> , 2016, 28, 044107.	1.6	28
47	A major secretory defect of tumour-infiltrating T lymphocytes due to galectin impairing LFA-1-mediated synapse completion. <i>Nature Communications</i> , 2016, 7, 12242.	5.8	63
48	On the stabilizing effects of neck-in, gravity, and inertia in Newtonian film casting. <i>Physics of Fluids</i> , 2016, 28, .	1.6	10
49	Experimental investigation of thermal structures in regular three-dimensional falling films. <i>European Physical Journal: Special Topics</i> , 2015, 224, 355-368.	1.2	14
50	Bubbly flow and gas-liquid mass transfer in square and circular microchannels for stress-free and rigid interfaces: dissolution model. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 899-911.	1.0	14
51	Bubbly flow and gas-liquid mass transfer in square and circular microchannels for stress-free and rigid interfaces: CFD analysis. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 523-545.	1.0	13
52	Practical mapping of the draw resonance instability in film casting of Newtonian fluids. <i>European Journal of Mechanics, B/Fluids</i> , 2015, 52, 68-75.	1.2	6
53	Phase diagram for the onset of circulating waves and flow reversal in inclined falling films. <i>Journal of Fluid Mechanics</i> , 2015, 763, 322-351.	1.4	25
54	Surfactant-induced rigidity of interfaces: a unified approach to free and dip-coated films. <i>Soft Matter</i> , 2015, 11, 2758-2770.	1.2	45

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55	Hydrogen peroxide concentration by pervaporation of a ternary liquid solution in microfluidics. Lab on A Chip, 2015, 15, 504-511.	3.1	13
56	Gas dissolution in antibubble dynamics. Soft Matter, 2014, 10, 7096-7102.	1.2	18
57	Three-dimensional flow structures in laminar falling liquid films. Journal of Fluid Mechanics, 2014, 743, 75-123.	1.4	31
58	Rivulet Structures in Falling Liquid Films. Understanding Complex Systems, 2013, , 435-441.	0.3	1
59	Antibubble Dynamics: The Drainage of an Air Film with Viscous Interfaces. Physical Review Letters, 2012, 109, 264502.	2.9	50
60	Flow and Heat Transfer: Formulation. Applied Mathematical Sciences (Switzerland), 2012, , 21-38.	0.4	0
61	Modeling Methodologies for Moderate Reynolds Number Flows. Applied Mathematical Sciences (Switzerland), 2012, , 145-192.	0.4	0
62	Isothermal Case: Three-Dimensional Flow. Applied Mathematical Sciences (Switzerland), 2012, , 277-308.	0.4	1
63	Isothermal Case: Two-Dimensional Flow. Applied Mathematical Sciences (Switzerland), 2012, , 193-275.	0.4	1
64	Nonisothermal Case: Two- and Three-Dimensional Flow. Applied Mathematical Sciences (Switzerland), 2012, , 309-350.	0.4	0
65	Plate Coating: Influence of Concentrated Surfactants on the Film Thickness. Langmuir, 2012, 28, 3821-3830.	1.6	30
66	Primary Instability. Applied Mathematical Sciences (Switzerland), 2012, , 39-64.	0.4	0
67	Falling Liquid Films. Applied Mathematical Sciences (Switzerland), 2012, , .	0.4	201
68	Thermocapillary-assisted pulling of contact-free liquid films. Physics of Fluids, 2012, 24, 032107.	1.6	8
69	Onset of thermal ripples at the interface of an evaporating liquid under a flow of inert gas. Experiments in Fluids, 2012, 52, 1107-1119.	1.1	24
70	Methodologies for Low-Reynolds Number Flows. Applied Mathematical Sciences (Switzerland), 2012, , 95-144.	0.4	0
71	Open Questions and Suggestions for Further Research. Applied Mathematical Sciences (Switzerland), 2012, , 351-355.	0.4	0
72	Boundary Layer Approximation. Applied Mathematical Sciences (Switzerland), 2012, , 65-93.	0.4	0

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73	Newtonian pizza: spinning a viscous sheet. <i>Journal of Fluid Mechanics</i> , 2010, 659, 1-23.	1.4	7
74	Thermocapillary-assisted pulling of thin films: Application to molten metals. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	7
75	Experimental study of dispersion and miscible viscous fingering of initially circular samples in Hele-Shaw cells. <i>Physics of Fluids</i> , 2010, 22, .	1.6	29
76	The role of surface rheology in liquid film formation. <i>Europhysics Letters</i> , 2010, 90, 24002.	0.7	58
77	Lateral shaping and stability of a stretching viscous sheet. <i>European Physical Journal B</i> , 2009, 68, 487-494.	0.6	12
78	On the (de)stabilization of draw resonance due to cooling. <i>Journal of Fluid Mechanics</i> , 2009, 636, 155-176.	1.4	18
79	On the thickness of soap films: an alternative to Frankel's law " CORRIGENDUM. <i>Journal of Fluid Mechanics</i> , 2009, 630, 443-443.	1.4	6
80	Interaction of three-dimensional hydrodynamic and thermocapillary instabilities in film flows. <i>Physical Review E</i> , 2008, 78, 066311.	0.8	37
81	Spontaneous channeling of solitary pulses in heated-film flows. <i>Europhysics Letters</i> , 2008, 84, 64002.	0.7	11
82	On the thickness of soap films: an alternative to Frankel's law. <i>Journal of Fluid Mechanics</i> , 2008, 602, 119-127.	1.4	36
83	Heated falling films. <i>Journal of Fluid Mechanics</i> , 2007, 592, 295-334.	1.4	78
84	Some advances in lubrication-type theories. <i>European Physical Journal: Special Topics</i> , 2007, 146, 377-389.	1.2	3
85	Wave patterns in film flows: modelling and three-dimensional waves. <i>Journal of Fluid Mechanics</i> , 2006, 562, 183.	1.4	120
86	Gravity Level Influence on a Laterally Heated Ferrofluid Submitted to an Oblique Strong Magnetic Field. <i>Zeitschrift Fur Physikalische Chemie</i> , 2006, 220, 199-208.	1.4	0
87	Steady flows of a laterally heated ferrofluid layer: Influence of inclined strong magnetic field and gravity level. <i>Physics of Fluids</i> , 2006, 18, 093602.	1.6	8
88	Thermocapillary long waves in a liquid film flow. Part 1. Low-dimensional formulation. <i>Journal of Fluid Mechanics</i> , 2005, 538, 199.	1.4	100
89	Thermocapillary long waves in a liquid film flow. Part 2. Linear stability and nonlinear waves. <i>Journal of Fluid Mechanics</i> , 2005, 538, 223.	1.4	89
90	Validity domain of the Benney equation including the Marangoni effect for closed and open flows. <i>Journal of Fluid Mechanics</i> , 2005, 527, 303-335.	1.4	95

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91	Microgravity investigations of instability and mixing flux in frontal displacement of fluids. <i>Microgravity Science and Technology</i> , 2004, 15, 35-51.	0.7	29
92	On the instability of a falling film due to localized heating. <i>Journal of Fluid Mechanics</i> , 2003, 475, 1-19.	1.4	93
93	Nonlinear evolution of nonuniformly heated falling liquid films. <i>Physics of Fluids</i> , 2002, 14, 4130-4151.	1.6	84
94	Effect of nonuniform wall heating on the three-dimensional secondary instability of falling films. <i>Acta Mechanica</i> , 2002, 156, 79-91.	1.1	12
95	Heat transfer and rivulet structures formation in a falling thin liquid film locally heated. <i>International Journal of Thermal Sciences</i> , 2002, 41, 664-672.	2.6	75
96	Deformation of the Free Surface in a Moving Locally-Heated Thin Liquid Layer. <i>Fluid Dynamics</i> , 2001, 36, 521-528.	0.2	38