

Benoit Scheid

List of Publications by Year in descending order

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96
papers

2,233
citations

236925

25
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243625

44
g-index

102
all docs

102
docs citations

102
times ranked

1391
citing authors

#	ARTICLE	IF	CITATIONS
1	Falling Liquid Films. Applied Mathematical Sciences (Switzerland), 2012, , .	0.8	201
2	Wave patterns in film flows: modelling and three-dimensional waves. Journal of Fluid Mechanics, 2006, 562, 183.	3.4	120
3	Thermocapillary long waves in a liquid film flow. Part 1. Low-dimensional formulation. Journal of Fluid Mechanics, 2005, 538, 199.	3.4	100
4	Validity domain of the Benney equation including the Marangoni effect for closed and open flows. Journal of Fluid Mechanics, 2005, 527, 303-335.	3.4	95
5	On the instability of a falling film due to localized heating. Journal of Fluid Mechanics, 2003, 475, 1-19.	3.4	93
6	Thermocapillary long waves in a liquid film flow. Part 2. Linear stability and nonlinear waves. Journal of Fluid Mechanics, 2005, 538, 223.	3.4	89
7	Nonlinear evolution of nonuniformly heated falling liquid films. Physics of Fluids, 2002, 14, 4130-4151.	4.0	84
8	Heated falling films. Journal of Fluid Mechanics, 2007, 592, 295-334.	3.4	78
9	Heat transfer and rivulet structures formation in a falling thin liquid film locally heated. International Journal of Thermal Sciences, 2002, 41, 664-672.	4.9	75
10	A major secretory defect of tumour-infiltrating T lymphocytes due to galectin impairing LFA-1-mediated synapse completion. Nature Communications, 2016, 7, 12242.	12.8	63
11	The role of surface rheology in liquid film formation. Europhysics Letters, 2010, 90, 24002.	2.0	58
12	Antibubble Dynamics: The Drainage of an Air Film with Viscous Interfaces. Physical Review Letters, 2012, 109, 264502.	7.8	50
13	Surfactant-induced rigidity of interfaces: a unified approach to free and dip-coated films. Soft Matter, 2015, 11, 2758-2770.	2.7	45
14	Deformation of the Free Surface in a Moving Locally-Heated Thin Liquid Layer. Fluid Dynamics, 2001, 36, 521-528.	0.9	38
15	Microfluidic droplet generation based on non-embedded co-flow-focusing using 3D printed nozzle. Scientific Reports, 2020, 10, 21616.	3.3	38
16	Concentration Gradients in Material Sciences: Methods to Design and Biomedical Applications. Advanced Functional Materials, 2021, 31, 2009005.	14.9	38
17	Interaction of three-dimensional hydrodynamic and thermocapillary instabilities in film flows. Physical Review E, 2008, 78, 066311.	2.1	37
18	On the thickness of soap films: an alternative to Frankel's law. Journal of Fluid Mechanics, 2008, 602, 119-127.	3.4	36

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19	Three-dimensional flow structures in laminar falling liquid films. <i>Journal of Fluid Mechanics</i> , 2014, 743, 75-123.	3.4	31
20	Hydrodynamic waves in films flowing under an inclined plane. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	31
21	Plate Coating: Influence of Concentrated Surfactants on the Film Thickness. <i>Langmuir</i> , 2012, 28, 3821-3830.	3.5	30
22	Microgravity investigations of instability and mixing flux in frontal displacement of fluids. <i>Microgravity Science and Technology</i> , 2004, 15, 35-51.	1.4	29
23	Experimental study of dispersion and miscible viscous fingering of initially circular samples in Hele-Shaw cells. <i>Physics of Fluids</i> , 2010, 22, .	4.0	29
24	Controlling the lifetime of antibubbles. <i>Advances in Colloid and Interface Science</i> , 2019, 270, 73-86.	14.7	29
25	Critical inclination for absolute/convective instability transition in inverted falling films. <i>Physics of Fluids</i> , 2016, 28, 044107.	4.0	28
26	Continuous-Flow Tubular Crystallization To Discriminate between Two Competing Crystal Polymorphs. 1. Cooling Crystallization. <i>Crystal Growth and Design</i> , 2018, 18, 6431-6439.	3.0	26
27	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.	3.4	25
28	Onset of thermal ripples at the interface of an evaporating liquid under a flow of inert gas. <i>Experiments in Fluids</i> , 2012, 52, 1107-1119.	2.4	24
29	Low Kapitza falling liquid films. <i>Chemical Engineering Science</i> , 2017, 170, 122-138.	3.8	24
30	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.	3.4	24
31	Bubble dynamics in microchannels: inertial and capillary migration forces. <i>Journal of Fluid Mechanics</i> , 2018, 842, 215-247.	3.4	24
32	Influence of Soluble Surfactants and Deformation on the Dynamics of Centered Bubbles in Cylindrical Microchannels. <i>Langmuir</i> , 2018, 34, 10048-10062.	3.5	24
33	Experimental investigations of liquid falling films flowing under an inclined planar substrate. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	24
34	Natural break-up and satellite formation regimes of surfactant-laden liquid threads. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	3.4	23
35	Dewetting of Thin Liquid Films Surrounding Air Bubbles in Microchannels. <i>Langmuir</i> , 2018, 34, 1363-1370.	3.5	22
36	The break-up of free films pulled out of a pure liquid bath. <i>Journal of Fluid Mechanics</i> , 2017, 811, 499-524.	3.4	21

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37	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.	3.4	19
38	Three-dimensional Rayleigh–Taylor instability under a unidirectional curved substrate. <i>Journal of Fluid Mechanics</i> , 2018, 837, 19-47.	3.4	19
39	On the (de)stabilization of draw resonance due to cooling. <i>Journal of Fluid Mechanics</i> , 2009, 636, 155-176.	3.4	18
40	Gas dissolution in antibubble dynamics. <i>Soft Matter</i> , 2014, 10, 7096-7102.	2.7	18
41	Lifetime of Surface Bubbles in Surfactant Solutions. <i>Langmuir</i> , 2020, 36, 7749-7764.	3.5	17
42	Adaptive stitching for meso-scale printing with two-photon lithography. <i>Additive Manufacturing</i> , 2018, 21, 589-597.	3.0	16
43	Experimental investigation of thermal structures in regular three-dimensional falling films. <i>European Physical Journal: Special Topics</i> , 2015, 224, 355-368.	2.6	14
44	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.	2.2	14
45	Continuous-Flow Tubular Crystallization To Discriminate between Two Competing Crystal Polymorphs. 2. Antisolvent Crystallization. <i>Crystal Growth and Design</i> , 2018, 18, 6440-6447.	3.0	14
46	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.	2.2	13
47	Hydrogen peroxide concentration by pervaporation of a ternary liquid solution in microfluidics. <i>Lab on A Chip</i> , 2015, 15, 504-511.	6.0	13
48	Combined influence of inertia, gravity, and surface tension on the linear stability of Newtonian fiber spinning. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	13
49	Effect of nonuniform wall heating on the three-dimensional secondary instability of falling films. <i>Acta Mechanica</i> , 2002, 156, 79-91.	2.1	12
50	Lateral shaping and stability of a stretching viscous sheet. <i>European Physical Journal B</i> , 2009, 68, 487-494.	1.5	12
51	Spontaneous channeling of solitary pulses in heated-film flows. <i>Europhysics Letters</i> , 2008, 84, 64002.	2.0	11
52	Mass transfer around bubbles flowing in cylindrical microchannels. <i>Journal of Fluid Mechanics</i> , 2019, 869, 110-142.	3.4	11
53	Bubbles determine the amount of alcohol in Mezcal. <i>Scientific Reports</i> , 2020, 10, 11014.	3.3	11
54	Effect of buoyancy on the motion of long bubbles in horizontal tubes. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	11

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55	On the stabilizing effects of neck-in, gravity, and inertia in Newtonian film casting. <i>Physics of Fluids</i> , 2016, 28, .	4.0	10
56	The coupling of in-flow reaction with continuous flow seedless tubular crystallization. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 516-522.	3.7	10
57	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.	4.0	8
58	Thermocapillary-assisted pulling of contact-free liquid films. <i>Physics of Fluids</i> , 2012, 24, 032107.	4.0	8
59	WaveMaker: The three-dimensional wave simulation tool for falling liquid films. <i>SoftwareX</i> , 2018, 7, 211-216.	2.6	8
60	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.	1.9	8
61	Newtonian pizza: spinning a viscous sheet. <i>Journal of Fluid Mechanics</i> , 2010, 659, 1-23.	3.4	7
62	Thermocapillary-assisted pulling of thin films: Application to molten metals. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	7
63	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.	1.8	7
64	Hydrodynamic-driven morphogenesis of karst draperies: spatio-temporal analysis of the two-dimensional impulse response. <i>Journal of Fluid Mechanics</i> , 2021, 910, .	3.4	7
65	Dynamics of the jet wiping process via integral models. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	3.4	7
66	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.	1.9	7
67	On the thickness of soap films: an alternative to Frankel's law " CORRIGENDUM. <i>Journal of Fluid Mechanics</i> , 2009, 630, 443-443.	3.4	6
68	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.	2.5	6
69	On the effect of electrostatic surface forces on dielectric falling films. <i>Journal of Fluid Mechanics</i> , 2021, 906, .	3.4	6
70	Statics and dynamics of a viscous ligament drawn out of a pure-liquid bath. <i>Journal of Fluid Mechanics</i> , 2021, 922, .	3.4	6
71	Bubble dynamics in microchannels: inertial and capillary migration forces " CORRIGENDUM. <i>Journal of Fluid Mechanics</i> , 2018, 855, 1242-1245.	3.4	5
72	Effect of insoluble surfactants on a thermocapillary flow. <i>Physics of Fluids</i> , 2021, 33, .	4.0	5

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73	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.	2.2	4
74	Delayed bubble entrapment during the drop impact on a bounded liquid bath. <i>AIP Advances</i> , 2019, 9, .	1.3	4
75	An alternative choice of the boundary condition for the arbitrary Lagrangian-Eulerian method. <i>Journal of Computational Physics</i> , 2021, 443, 110494.	3.8	4
76	Some advances in lubrication-type theories. <i>European Physical Journal: Special Topics</i> , 2007, 146, 377-389.	2.6	3
77	Influence of the inlet velocity profile on the flow stability in a symmetric channel expansion. <i>Journal of Fluid Mechanics</i> , 2021, 909, .	3.4	3
78	How to measure the thickness of a lubrication film in a pancake bubble with a single snapshot?. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	2
79	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, .	3.4	2
80	Dip-coating flow in the presence of two immiscible liquids. <i>Journal of Fluid Mechanics</i> , 2021, 922, .	3.4	2
81	Spanwise structuring and rivulet formation in suspended falling liquid films. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	2
82	Isothermal Case: Three-Dimensional Flow. <i>Applied Mathematical Sciences (Switzerland)</i> , 2012, , 277-308.	0.8	1
83	Isothermal Case: Two-Dimensional Flow. <i>Applied Mathematical Sciences (Switzerland)</i> , 2012, , 193-275.	0.8	1
84	Rivulet Structures in Falling Liquid Films. <i>Understanding Complex Systems</i> , 2013, , 435-441.	0.6	1
85	Zero overlap stitching of microlens arrays with two-photon polymerisation. , 2018, , .		1
86	Linear stability analysis of nonisothermal glass fiber drawing. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	1
87	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.	2.8	0
88	Flow and Heat Transfer: Formulation. <i>Applied Mathematical Sciences (Switzerland)</i> , 2012, , 21-38.	0.8	0
89	Modeling Methodologies for Moderate Reynolds Number Flows. <i>Applied Mathematical Sciences (Switzerland)</i> , 2012, , 145-192.	0.8	0
90	Nonisothermal Case: Two- and Three-Dimensional Flow. <i>Applied Mathematical Sciences (Switzerland)</i> , 2012, , 309-350.	0.8	0

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91	Primary Instability. Applied Mathematical Sciences (Switzerland), 2012, , 39-64.	0.8	0
92	Two-dimensional modeling of an absorbing falling film in its development zone. AIChE Journal, 2017, 63, 4370-4378.	3.6	0
93	Hydrodynamic-driven morphogenesis of karst draperies: spatio-temporal analysis of the two-dimensional impulse response " CORRIGENDUM. Journal of Fluid Mechanics, 2021, 926, .	3.4	0
94	Methodologies for Low-Reynolds Number Flows. Applied Mathematical Sciences (Switzerland), 2012, , 95-144.	0.8	0
95	Open Questions and Suggestions for Further Research. Applied Mathematical Sciences (Switzerland), 2012, , 351-355.	0.8	0
96	Boundary Layer Approximation. Applied Mathematical Sciences (Switzerland), 2012, , 65-93.	0.8	0