

# Detlef Lohse

## List of Publications by Year in descending order

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722  
papers

42,569  
citations

1183

105  
h-index

3672

169  
g-index

769  
all docs

769  
docs citations

769  
times ranked

19253  
citing authors

#	ARTICLE	IF	CITATIONS
1	A front-tracking immersed-boundary framework for simulating Lagrangian melting problems. Journal of Computational Physics, 2025, 525, 113762.	3.8	0
2	Thermal-solutal-induced bistability of evaporating multicomponent liquid thin films. Proceedings of the National Academy of Sciences of the United States of America, 2025, 122, .	7.7	0
3	On the shape of air bubbles trapped in ice. Proceedings of the National Academy of Sciences of the United States of America, 2025, 122, .	7.7	0
4	Launching a Drop via Interplay of Buoyancy and Stick-Slip Jump Dissolution. Small, 2024, 20, .	11.6	2
5	Shape effect on solid melting in flowing liquid. Journal of Fluid Mechanics, 2024, 980, .	3.4	3
6	Autothermotaxis of volatile drops. Physical Review Fluids, 2024, 9, .	2.5	2
7	Toward Understanding Polar Heat Transport Enhancement in Subglacial Oceans on Icy Moons. Geophysical Research Letters, 2024, 51, .	4.2	2
8	Buoyancy-driven attraction of active droplets. Journal of Fluid Mechanics, 2024, 980, .	3.4	4
9	Rising and settling 2-D cylinders with centre-of-mass offset. Journal of Fluid Mechanics, 2024, 981, .	3.4	2
10	Freezing-induced topological transition of double-emulsion. Soft Matter, 2024, 20, 2491-2495.	2.7	1
11	Mass transport at gas-evolving electrodes. Journal of Fluid Mechanics, 2024, 983, .	3.4	6
12	Evaporation of binary liquids from a capillary tube. Journal of Fluid Mechanics, 2024, 983, .	3.4	2
13	Performance Enhancement of Electrocatalytic Hydrogen Evolution through Coalescence-Induced Bubble Dynamics. Journal of the American Chemical Society, 2024, 146, 10177-10186.	15.7	27
14	Finite speed of sound effects on asymmetry in multibubble cavitation. Physical Review Fluids, 2024, 9, .	2.5	4
15	Towards the understanding of convective dissolution in confined porous media: thin bead pack experiments, two-dimensional direct numerical simulations and physical models. Journal of Fluid Mechanics, 2024, 987, .	3.4	1
16	Threshold current density for diffusion-controlled stability of electrolytic surface nanobubbles. Proceedings of the National Academy of Sciences of the United States of America, 2024, 121, .	7.7	2
17	Ultimate Rayleigh-Bénard turbulence. Reviews of Modern Physics, 2024, 96, .	40.5	12
18	Circular objects do not melt the slowest in water. Physical Review Fluids, 2024, 9, .	2.5	0

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19	Particle chirality does not matter in the large-scale features of strong turbulence. <i>Journal of Fluid Mechanics</i> , 2024, 995, .	3.4	0
20	Life beyond Fritz: On the Detachment of Electrolytic Bubbles. <i>Langmuir</i> , 2024, 40, 20474-20484.	3.8	2
21	Ultimate Regime of Rayleigh-Bénard Turbulence: Subregimes and Their Scaling Relations for the Nusselt vs Rayleigh and Prandtl Numbers. <i>Physical Review Letters</i> , 2024, 133, .	7.8	1
22	Enhanced bubble growth near an advancing solidification front. <i>Journal of Fluid Mechanics</i> , 2024, 996, .	3.4	1
23	Influence of confinement on the dissolution of carbon dioxide in a vertical cylindrical cell. <i>Physical Review Fluids</i> , 2024, 9, .	2.5	0
24	Melting and solidification in periodically modulated thermal convection. <i>Journal of Fluid Mechanics</i> , 2024, 998, .	3.4	0
25	Fast monotonically integrated large eddy simulation solver: validation of a new scalable tool to study and optimize indoor ventilation. <i>Flow</i> , 2024, 4, .	2.1	2
26	Turbulent mixed convection in vertical and horizontal channels. <i>Journal of Fluid Mechanics</i> , 2024, 998, .	3.4	0
27	Double-diffusive transport in multicomponent vertical convection. <i>Physical Review Fluids</i> , 2023, 8, .	2.5	4
28	Interfacial-dominated torque response in liquid-liquid Taylor-Couette flows. <i>Journal of Fluid Mechanics</i> , 2023, 956, .	3.4	1
29	High humidity enhances the evaporation of non-aqueous volatile sprays. <i>Journal of Fluid Mechanics</i> , 2023, 956, .	3.4	5
30	Morphology evolution of a melting solid layer above its melt heated from below. <i>Journal of Fluid Mechanics</i> , 2023, 956, .	3.4	20
31	The emergence of bubble-induced scaling in thermal spectra in turbulence. <i>Journal of Fluid Mechanics</i> , 2023, 958, .	3.4	4
32	When does an impacting drop stop bouncing?. <i>Journal of Fluid Mechanics</i> , 2023, 958, .	3.4	20
33	Drop impact on viscous liquid films. <i>Journal of Fluid Mechanics</i> , 2023, 958, .	3.4	19
34	Drop impact on superheated surfaces: from capillary dominance to nonlinear advection dominance. <i>Journal of Fluid Mechanics</i> , 2023, 963, .	3.4	2
35	Selective Evaporation at the Nozzle Exit in Piezoelectric Inkjet Printing. <i>Physical Review Applied</i> , 2023, 19, .	4.0	6
36	Thin-Film-Mediated Deformation of Droplet during Cryopreservation. <i>Physical Review Letters</i> , 2023, 130, .	7.8	9

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37	How roughness and thermal properties of a solid substrate determine the Leidenfrost temperature: Experiments and a model. <i>Physical Review Fluids</i> , 2023, 8, .	2.5	4
38	Scalar transport and nucleation in quasi-two-dimensional starting jets and puffs. <i>International Journal of Multiphase Flow</i> , 2023, 168, 104556.	3.7	1
39	On the rising and sinking motion of bouncing oil drops in strongly stratified liquids. <i>Journal of Fluid Mechanics</i> , 2023, 966, .	3.4	3
40	Bag-mediated film atomization in a cough machine. <i>Physical Review Fluids</i> , 2023, 8, .	2.5	13
41	Optimal heat transport in rotating Rayleigh-B�nard convection at large Rayleigh numbers. <i>Physical Review Fluids</i> , 2023, 8, .	2.5	5
42	Solutal Marangoni effect determines bubble dynamics during electrocatalytic hydrogen evolution. <i>Nature Chemistry</i> , 2023, 15, 1532-1540.	13.9	92
43	Diffusive and convective dissolution of carbon dioxide in a vertical cylindrical cell. <i>Physical Review Fluids</i> , 2023, 8, .	2.5	2
44	Interplay between advective, diffusive and active barriers in (rotating) Rayleigh-B�nard flow. <i>Journal of Fluid Mechanics</i> , 2023, 969, .	3.4	3
45	Ice melting in salty water: layering and non-monotonic dependence on the mean salinity. <i>Journal of Fluid Mechanics</i> , 2023, 969, .	3.4	13
46	Minimum current for detachment of electrolytic bubbles. <i>Journal of Fluid Mechanics</i> , 2023, 975, .	3.4	3
47	Lifetimes of metastable windy states in two-dimensional Rayleigh-B�nard convection with stress-free boundaries. <i>Journal of Fluid Mechanics</i> , 2023, 976, .	3.4	3
48	Bistability in Radiatively Heated Melt Ponds. <i>Physical Review Letters</i> , 2023, 131, .	7.8	5
49	Surfactants on troubled waters. <i>Journal of Fluid Mechanics</i> , 2023, 976, .	3.4	3
50	Fundamental Fluid Dynamics Challenges in Inkjet Printing. <i>Annual Review of Fluid Mechanics</i> , 2022, 54, 349-382.	25.0	339
51	Towards realistic simulations of human cough: Effect of droplet emission duration and spread angle. <i>International Journal of Multiphase Flow</i> , 2022, 147, 103883.	3.7	11
52	The effect of buoyancy driven convection on the growth and dissolution of bubbles on electrodes. <i>Electrochimica Acta</i> , 2022, 403, 139616.	5.4	15
53	Boundary layers in turbulent vertical convection at high Prandtl number. <i>Journal of Fluid Mechanics</i> , 2022, 930, .	3.4	15
54	Do increased flow rates in displacement ventilation always lead to better results?. <i>Journal of Fluid Mechanics</i> , 2022, 932, .	3.4	24

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55	Strong alignment of prolate ellipsoids in Taylorâ€™Couette flow. <i>Journal of Fluid Mechanics</i> , 2022, 935, .	3.4	9
56	Dataâ€driven identification of the spatiotemporal structure of turbulent flows by streaming dynamic mode decomposition. <i>GAMM Mitteilungen</i> , 2022, 45, .	1.1	3
57	Stability of respiratory-like droplets under evaporation. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	17
58	Aspect Ratio Dependence of Heat Transfer in a Cylindrical Rayleigh-BÃ©nard Cell. <i>Physical Review Letters</i> , 2022, 128, .	7.8	36
59	Heat transfer in turbulent Rayleighâ€™BÃ©nard convection through two immiscible fluid layers. <i>Journal of Fluid Mechanics</i> , 2022, 938, .	3.4	20
60	Multiple heat transport maxima in confined-rotating Rayleighâ€™BÃ©nard convection. <i>Journal of Fluid Mechanics</i> , 2022, 939, .	3.4	7
61	Surface Properties of Colloidal Particles Affect Colloidal Self-Assembly in Evaporating Self-Lubricating Ternary Droplets. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 2275-2290.	8.1	14
62	Enhancing heat transport in multiphase Rayleighâ€™BÃ©nard turbulence by changing the plateâ€™liquid contact angles. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	3.4	12
63	Marangoni instabilities of drops of different viscosities in stratified liquids. <i>Journal of Fluid Mechanics</i> , 2022, 932, .	3.4	17
64	Layering and vertical transport in sheared double-diffusive convection in the diffusive regime. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	3.4	13
65	Resonance behavior of a compliant piezo-driven inkjet channel with an entrained microbubble. <i>Journal of the Acoustical Society of America</i> , 2022, 151, 2545-2557.	0.6	5
66	Transition in the growth mode of plasmonic bubbles in binary liquids. <i>Soft Matter</i> , 2022, 18, 4136-4145.	2.7	3
67	Off-centre gravity induces large-scale flow patterns in spherical Rayleighâ€™BÃ©nard convection. <i>Journal of Fluid Mechanics</i> , 2022, 942, .	3.4	2
68	Passive scalar transport in Couette flow. <i>Journal of Fluid Mechanics</i> , 2022, 943, .	3.4	3
69	Micro-droplet nucleation through solvent exchange in a turbulent buoyant jet. <i>Journal of Fluid Mechanics</i> , 2022, 943, .	3.4	2
70	How small-scale flow structures affect the heat transport in sheared thermal convection. <i>Journal of Fluid Mechanics</i> , 2022, 944, .	3.4	5
71	Potential response of single successive constant-current-driven electrolytic hydrogen bubbles spatially separated from the electrode. <i>Electrochimica Acta</i> , 2022, 425, 140691.	5.4	22
72	Droplet dissolution driven by emerging thermal gradients and Marangoni flow. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	0

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73	Turbulent Rayleigh-Bénard convection with bubbles attached to the plate. <i>Journal of Fluid Mechanics</i> , 2022, 945, .	3.4	1
74	Physiochemical hydrodynamics of the phase segregation in an evaporating binary microdroplet. <i>Journal of Fluid Mechanics</i> , 2022, 946, .	3.4	9
75	Abrupt transition from slow to fast melting of ice. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	11
76	Impact Forces of Water Drops Falling on Superhydrophobic Surfaces. <i>Physical Review Letters</i> , 2022, 129, .	7.8	77
77	Physicochemical hydrodynamics of the phase segregation in an evaporating binary microdroplet – CORRIGENDUM. <i>Journal of Fluid Mechanics</i> , 2022, 947, .	3.4	0
78	Evaporation of a Sessile Colloidal Water-Glycerol Droplet: Marangoni Ring Formation. <i>Langmuir</i> , 2022, 38, 12082-12094.	3.8	20
79	Oscillatory droplet dissolution from competing Marangoni and gravitational flows. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	3
80	Taylor-Culick retractions and the influence of the surroundings. <i>Journal of Fluid Mechanics</i> , 2022, 948, .	3.4	21
81	Surface Nanodroplet-Based Extraction Combined with Offline Analytic Techniques for Chemical Detection and Quantification. <i>Langmuir</i> , 2022, 38, 11227-11235.	3.8	5
82	Vorticity-induced flow-focusing leads to bubble entrainment in an inkjet printhead: Synchrotron x-ray and volume-of-fluid visualizations. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	3
83	Physical mechanisms for droplet size and effective viscosity asymmetries in turbulent emulsions. <i>Journal of Fluid Mechanics</i> , 2022, 951, .	3.4	10
84	Interfacial aggregation of self-propelled Janus colloids in sessile droplets. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	3
85	On explosive boiling of a multicomponent Leidenfrost drop. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.7	26
86	The effect of Prandtl number on turbulent sheared thermal convection. <i>Journal of Fluid Mechanics</i> , 2021, 910, .	3.4	19
87	Coriolis effect on centrifugal buoyancy-driven convection in a thin cylindrical shell. <i>Journal of Fluid Mechanics</i> , 2021, 910, .	3.4	13
88	Nanosopic interactions of colloidal particles can suppress millimetre drop splashing. <i>Soft Matter</i> , 2021, 17, 5116-5121.	2.7	19
89	How ambient conditions affect the Leidenfrost temperature. <i>Soft Matter</i> , 2021, 17, 3207-3215.	2.7	21
90	Surface nanodroplet-based nanoextraction from sub-milliliter volumes of dense suspensions. <i>Lab on A Chip</i> , 2021, 21, 2574-2585.	5.6	11

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91	Kinematics and dynamics of freely rising spheroids at high Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2021, 912, .	3.4	22
92	Dissolution of microdroplets in a sparsely miscible liquid confined by leaky walls. <i>Journal of Fluid Mechanics</i> , 2021, 912, .	3.4	5
93	Scaling in Internally Heated Convection: A Unifying Theory. <i>Geophysical Research Letters</i> , 2021, 48, .	4.2	26
94	Particle Size Determines the Shape of Supraparticles in Self-Lubricating Ternary Droplets. <i>ACS Nano</i> , 2021, 15, 4256-4267.	15.4	33
95	Catastrophic Phase Inversion in High-Reynolds-Number Turbulent Taylor-Couette Flow. <i>Physical Review Letters</i> , 2021, 126, .	7.8	15
96	Universality in microdroplet nucleation during solvent exchange in Hele-Shaw-like channels. <i>Journal of Fluid Mechanics</i> , 2021, 912, .	3.4	5
97	Water entry of spheres into a rotating liquid. <i>Journal of Fluid Mechanics</i> , 2021, 912, .	3.4	23
98	Two-layer thermally driven turbulence: mechanisms for interface breakup. <i>Journal of Fluid Mechanics</i> , 2021, 913, .	3.4	18
99	Emergence of Bimodal Motility in Active Droplets. <i>Physical Review X</i> , 2021, 11, .	10.6	36
100	Marangoni Instability of a Drop in a Stably Stratified Liquid. <i>Physical Review Letters</i> , 2021, 126, .	7.8	27
101	Competing Marangoni and Rayleigh convection in evaporating binary droplets. <i>Journal of Fluid Mechanics</i> , 2021, 914, .	3.4	56
102	Air-cushioning effect and Kelvin-Helmholtz instability before the slamming of a disk on water. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	14
103	Regime transitions in thermally driven high-Rayleigh number vertical convection. <i>Journal of Fluid Mechanics</i> , 2021, 917, .	3.4	26
104	Fabrication of freestanding Pt nanowires for use as thermal anemometry probes in turbulence measurements. <i>Microsystems and Nanoengineering</i> , 2021, 7, .	9.3	16
105	Instabilities driven by diffusio-phoretic flow on catalytic surfaces. <i>Journal of Fluid Mechanics</i> , 2021, 919, .	3.4	24
106	Crossover of the relative heat transport contributions of plume ejecting and impacting zones in turbulent Rayleigh-Bénard convection $\langle \sup \rangle (a) \langle /sup \rangle$ . <i>Europhysics Letters</i> , 2021, 134, 34002.	2.1	7
107	Growth of respiratory droplets in cold and humid air. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	48
108	Universal properties of penetrative turbulent Rayleigh-Bénard convection. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	10

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109	Characterizing the turbulent drag properties of rough surfaces with a Taylorâ€“Couette set-up. <i>Journal of Fluid Mechanics</i> , 2021, 919, .	3.4	9
110	Deformation and relaxation of viscous thin films under bouncing drops. <i>Journal of Fluid Mechanics</i> , 2021, 920, .	3.4	22
111	Periodic bouncing of a plasmonic bubble in a binary liquid by competing solutal and thermal Marangoni forces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.7	26
112	Marangoni instability triggered by selective evaporation of a binary liquid inside a Hele-Shaw cell. <i>Journal of Fluid Mechanics</i> , 2021, 923, .	3.4	8
113	Bursting bubble in a viscoplastic medium. <i>Journal of Fluid Mechanics</i> , 2021, 922, .	3.4	27
114	Heat transport enhancement in confined Rayleigh-BÃ©nard convection feels the shape of the container <sup>(a)</sup> . <i>Europhysics Letters</i> , 2021, 135, 24004.	2.1	22
115	Droplet plume emission during plasmonic bubble growth in ternary liquids. <i>Physical Review E</i> , 2021, 104, .	2.1	4
116	Ultrasound-enhanced mass transfer during the growth and dissolution of surface gas bubbles. <i>International Journal of Heat and Mass Transfer</i> , 2021, 174, 121069.	5.6	6
117	Phase Separation of an Evaporating Ternary Solution in a Hele-Shaw Cell. <i>Langmuir</i> , 2021, 37, 10450-10460.	3.8	3
118	Electroconvective Instability in Water Electrolysis: An Evaluation of Electroconvective Patterns and Their Onset Features. <i>Physical Review Applied</i> , 2021, 16, .	4.0	8
119	Diffusionâ€“Free Scaling in Rotating Spherical Rayleigh-BÃ©nard Convection. <i>Geophysical Research Letters</i> , 2021, 48, .	4.2	13
120	Leidenfrost Effect as a Directed Percolation Phase Transition. <i>Physical Review Letters</i> , 2021, 127, .	7.8	19
121	Crown formation from a cavitating bubble close to a free surface. <i>Journal of Fluid Mechanics</i> , 2021, 926, .	3.4	37
122	Tuning Composition of Multicomponent Surface Nanodroplets in a Continuous Flowâ€“in System. <i>Advanced Materials Interfaces</i> , 2021, 8, .	4.2	7
123	An efficient phase-field method for turbulent multiphase flows. <i>Journal of Computational Physics</i> , 2021, 446, 110659.	3.8	30
124	Comparison of Boundary Integral and Volume-of-Fluid methods for compressible bubble dynamics. <i>International Journal of Multiphase Flow</i> , 2021, 145, 103834.	3.7	25
125	Propelling microdroplets generated and sustained by liquidâ€“liquid phase separation in confined spaces. <i>Soft Matter</i> , 2021, 17, 5362-5374.	2.7	14
126	Extended Lifetime of Respiratory Droplets in a Turbulent Vapor Puff and Its Implications on Airborne Disease Transmission. <i>Physical Review Letters</i> , 2021, 126, .	7.8	135

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127	Flow organisation in laterally unconfined Rayleigh-Bénard turbulence. <i>Journal of Fluid Mechanics</i> , 2021, 906, .	3.4	13
128	Drop impact on superheated surfaces: short-time dynamics and transition to contact. <i>Journal of Fluid Mechanics</i> , 2021, 928, .	3.4	17
129	Asymmetric coalescence of two droplets with different surface tensions is caused by capillary waves. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	13
130	The retraction of jetted slender viscoelastic liquid filaments. <i>Journal of Fluid Mechanics</i> , 2021, 929, .	3.4	17
131	Meniscus Oscillations Driven by Flow Focusing Lead to Bubble Pinch-Off and Entrainment in a Piezoacoustic Inkjet Nozzle. <i>Physical Review Applied</i> , 2021, 16, .	4.0	12
132	Rayleigh-Taylor instability by segregation in an evaporating multicomponent microdroplet – ERRATUM. <i>Journal of Fluid Mechanics</i> , 2021, 908, .	3.4	8
133	Slug bubble growth and dissolution by solute exchange. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	2
134	Self-Propelled Detachment upon Coalescence of Surface Bubbles. <i>Physical Review Letters</i> , 2021, 127, .	7.8	35
135	Initial solidification dynamics of spreading droplets. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	15
136	Diffusive growth of successive bubbles in confinement. <i>Journal of Fluid Mechanics</i> , 2020, 882, .	3.4	10
137	Bubbly drag reduction using a hydrophobic inner cylinder in Taylor-Couette turbulence. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	3.4	21
138	Plasmonic Bubble Nucleation in Binary Liquids. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2591-2597.	3.2	12
139	Controlling secondary flow in Taylor-Couette turbulence through spanwise-varying roughness. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	3.4	14
140	Solidification of liquid metal drops during impact. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	3.4	51
141	Modelling large scale airgun-bubble dynamics with highly non-spherical features. <i>International Journal of Multiphase Flow</i> , 2020, 122, 103143.	3.7	56
142	Periodically Modulated Thermal Convection. <i>Physical Review Letters</i> , 2020, 125, .	7.8	47
143	Effect of axially varying sandpaper roughness on bubbly drag reduction in Taylor-Couette turbulence. <i>International Journal of Multiphase Flow</i> , 2020, 132, 103434.	3.7	1
144	Café latte: spontaneous layer formation in laterally cooled double diffusive convection. <i>Journal of Fluid Mechanics</i> , 2020, 900, .	3.4	5

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145	Double threshold behavior for breakup of liquid sheets. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18912-18914.	7.7	14
146	Physicochemical hydrodynamics of droplets out of equilibrium. Nature Reviews Physics, 2020, 2, 426-443.	13.7	149
147	Electrochemically Induced pH Change: Time-Resolved Confocal Fluorescence Microscopy Measurements and Comparison with Numerical Model. Journal of Physical Chemistry Letters, 2020, 11, 7042-7048.	4.6	30
148	Drop impact on hot plates: contact times, lift-off and the lamella rupture. Soft Matter, 2020, 16, 7935-7949.	2.7	14
149	Rayleigh-Taylor instability by segregation in an evaporating multicomponent microdroplet. Journal of Fluid Mechanics, 2020, 899, .	3.4	17
150	Multiple States in Turbulent Large-Aspect-Ratio Thermal Convection: What Determines the Number of Convection Rolls?. Physical Review Letters, 2020, 125, .	7.8	61
151	Calculation of the mean velocity profile for strongly turbulent Taylor-Couette flow at arbitrary radius ratios. Journal of Fluid Mechanics, 2020, 905, .	3.4	6
152	Pattern Formation during the Impact of a Partially Frozen Binary Droplet on a Cold Surface. Physical Review Letters, 2020, 125, .	7.8	18
153	Plasmonic Microbubble Dynamics in Binary Liquids. Journal of Physical Chemistry Letters, 2020, 11, 8631-8637.	4.6	15
154	Non-monotonic transport mechanisms in vertical natural convection with dispersed light droplets. Journal of Fluid Mechanics, 2020, 900, .	3.4	6
155	Lifting a sessile oil drop from a superamphiphobic surface with an impacting one. Science Advances, 2020, 6, .	11.3	43
156	Double maxima of angular momentum transport in small gap Taylor-Couette turbulence. Journal of Fluid Mechanics, 2020, 900, .	3.4	9
157	From zonal flow to convection rolls in Rayleigh-Bénard convection with free-slip plates. Journal of Fluid Mechanics, 2020, 905, .	3.4	42
158	From Rayleigh-Bénard convection to porous-media convection: how porosity affects heat transfer and flow structure. Journal of Fluid Mechanics, 2020, 895, .	3.4	40
159	Nonaxisymmetric Effects in Drop-On-Demand Piezoacoustic Inkjet Printing. Physical Review Applied, 2020, 13, .	4.0	16
160	Evaporation-Induced Crystallization of Surfactants in Sessile Multicomponent Droplets. Langmuir, 2020, 36, 7545-7552.	3.8	16
161	Flow organization and heat transfer in turbulent wall sheared thermal convection. Journal of Fluid Mechanics, 2020, 897, .	3.4	41
162	Multiple states and transport properties of double-diffusive convection turbulence. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14676-14681.	7.7	32

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163	Bubbly and Buoyant Particle-Laden Turbulent Flows. Annual Review of Condensed Matter Physics, 2020, 11, 529-559.	28.6	106
164	Secondary Tail Formation and Breakup in Piezoacoustic Inkjet Printing: Femtoliter Droplets Captured in Flight. Physical Review Applied, 2020, 13, .	4.0	18
165	Evaporating droplets on oil-wetted surfaces: Suppression of the coffee-stain effect. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16756-16763.	7.7	70
166	Speeding up biphasic reactions with surface nanodroplets. Lab on A Chip, 2020, 20, 2965-2974.	5.6	12
167	Direct numerical simulations of spiral Taylor-Couette turbulence. Journal of Fluid Mechanics, 2020, 887, .	3.4	14
168	Gas-Vapor Interplay in Plasmonic Bubble Shrinkage. Journal of Physical Chemistry C, 2020, 124, 5861-5869.	3.2	30
169	Fast-freezing kinetics inside a droplet impacting on a cold surface. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2788-2794.	7.7	56
170	Coherence of temperature and velocity superstructures in turbulent Rayleigh-Bénard flow. Journal of Fluid Mechanics, 2020, 887, .	3.4	45
171	Convection-dominated dissolution for single and multiple immersed sessile droplets. Journal of Fluid Mechanics, 2020, 892, .	3.4	34
172	Marangoni puffs: dramatically enhanced dissolution of droplets with an entrapped bubble. Soft Matter, 2020, 16, 4520-4527.	2.7	4
173	Drop fragmentation by laser-pulse impact. Journal of Fluid Mechanics, 2020, 893, .	3.4	36
174	Giant plasmonic bubbles nucleation under different ambient pressures. Physical Review E, 2020, 102, .	2.1	13
175	What rotation rate maximizes heat transport in rotating Rayleigh-Bénard convection with Prandtl number larger than one?. Physical Review Fluids, 2020, 5, .	2.5	17
176	Ultrasound-enhanced mass transfer during single-bubble diffusive growth. Physical Review Fluids, 2020, 5, .	2.5	11
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