Luca Brandt

List of Publications by Year in descending order

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223 papers	8,393 citations	31949 53 h-index	58549 82 g-index
232 all docs	232 docs citations	232 times ranked	3452 citing authors

#	Article	IF	Citations
1	On the breakdown of boundary layer streaks. Journal of Fluid Mechanics, 2001, 428, 29-60.	1.4	379
2	Transition in boundary layers subject to free-stream turbulence. Journal of Fluid Mechanics, 2004, 517, 167-198.	1.4	329
3	Steady solutions of the Navier-Stokes equations by selective frequency damping. Physics of Fluids, 2006, 18, 068102.	1.6	255
4	Turbulent channel flow of dense suspensions of neutrally buoyant spheres. Journal of Fluid Mechanics, 2015, 764, 463-487.	1.4	203
5	Delaying Transition to Turbulence by a Passive Mechanism. Physical Review Letters, 2006, 96, 064501.	2.9	199
6	Experimental and theoretical investigation of the nonmodal growth of steady streaks in a flat plate boundary layer. Physics of Fluids, 2004, 16, 3627-3638.	1.6	166
7	Self-propulsion in viscoelastic fluids: Pushers vs. pullers. Physics of Fluids, 2012, 24, .	1.6	152
8	Stabilization of Tollmienâ€“Schlichting waves by finite amplitude optimal streaks in the Blasius boundary layer. Physics of Fluids, 2002, 14, L57-L60.	1.6	151
9	On streak breakdown in bypass transition. Physics of Fluids, 2008, 20, .	1.6	143
10	On Tollmienâ€“Schlichting-like waves in streaky boundary layers. European Journal of Mechanics, B/Fluids, 2004, 23, 815-833.	1.2	136
11	Particle-Laden Turbulence: Progress and Perspectives. Annual Review of Fluid Mechanics, 2022, 54, 159-189.	10.8	133
12	Inputâ€“output analysis, model reduction and control of the flat-plate boundary layer. Journal of Fluid Mechanics, 2009, 620, 263-298.	1.4	131
13	Experimental study of the stabilization of Tollmienâ€“Schlichting waves by finite amplitude streaks. Physics of Fluids, 2005, 17, 054110.	1.6	130
14	Instability and sensitivity of the flow around a rotating circular cylinder. Journal of Fluid Mechanics, 2010, 650, 513-536.	1.4	129
15	Transition of streamwise streaks in zero-pressure-gradient boundary layers. Journal of Fluid Mechanics, 2002, 472, 229-261.	1.4	124
16	Wall accumulation and spatial localization in particle-laden wall flows. Journal of Fluid Mechanics, 2012, 699, 50-78.	1.4	123
17	Low-Reynolds-number swimming in aÂcapillaryÂtube. Journal of Fluid Mechanics, 2013, 726, 285-311.	1.4	120
18	Global three-dimensional optimal disturbances in the Blasius boundary-layer flow using time-steppers. Journal of Fluid Mechanics, 2010, 650, 181-214.	1.4	117

#	Article	IF	Citations
19	The lift-up effect: The linear mechanism behind transition and turbulence in shear flows. European Journal of Mechanics, B/Fluids, 2014, 47, 80-96.	1.2	111
20	Matrix-Free Methods for the Stability and Control of Boundary Layers. AIAA Journal, 2009, 47, 1057-1068.	1.5	84
21	Nonequilibrium Thermodynamics and the Optimal Path to Turbulence in Shear Flows. Physical Review Letters, 2011, 106, 134502.	2.9	82
22	Laminar, Turbulent, and Inertial Shear-Thickening Regimes in Channel Flow of Neutrally Buoyant Particle Suspensions. Physical Review Letters, 2014, 113, 254502.	2.9	82
23	Analysis of Fluid Systems: Stability, Receptivity, Sensitivity. Applied Mechanics Reviews, 2014, 66, .	4.5	80
24	Numerical study of the sedimentation of spheroidal particles. International Journal of Multiphase Flow, 2016, 87, 16-34.	1.6	80
25	Micropropulsion and microrheology in complex fluids via symmetry breaking. Physics of Fluids, 2012, 24, .	1.6	79
26	Effect of base-flow variation in noise amplifiers: the flat-plate boundary layer. Journal of Fluid Mechanics, 2011, 687, 503-528.	1.4	78
27	Locomotion by tangential deformation in a polymeric fluid. Physical Review E, 2011, 83, 011901.	0.8	77
28	Sedimentation of finite-size spheres in quiescent and turbulent environments. Journal of Fluid Mechanics, 2016, 788, 640-669.	1.4	74
29	Turbulent channel flow over an anisotropic porous wall â€“ drag increase and reduction. Journal of Fluid Mechanics, 2018, 842, 381-394.	1.4	74
30	Shear Thickening in Non-Brownian Suspensions: An Excluded Volume Effect. Physical Review Letters, 2013, 111, 098302.	2.9	71
31	Minimal transition thresholds in plane Couette flow. Physics of Fluids, 2013, 25, .	1.6	71
32	Continuous Growth of Droplet Size Variance due to Condensation in Turbulent Clouds. Physical Review Letters, 2015, 115, 184501.	2.9	71
33	Numerical simulation of turbulent channel flow over a viscous hyper-elastic wall. Journal of Fluid Mechanics, 2017, 830, 708-735.	1.4	71
34	Receptivity to free-stream vorticity of flow past a flat plate with elliptic leading edge. Journal of Fluid Mechanics, 2010, 653, 245-271.	1.4	68
35	Swept wing boundary-layer receptivity to localized surface roughness. Journal of Fluid Mechanics, 2012, 711, 516-544.	1.4	68
36	Transient growth on boundary layer streaks. Journal of Fluid Mechanics, 2005, 537, 91.	1.4	67

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37	Linear stability analysis of channel flow of viscoelastic Oldroyd-B and FENE-P fluids. Journal of Fluid Mechanics, 2013, 737, 249-279.	1.4	67
38	On the convectively unstable nature of optimal streaks in boundary layers. Journal of Fluid Mechanics, 2003, 485, 221-242.	1.4	65
39	Receptivity mechanisms in three-dimensional boundary-layer flows. Journal of Fluid Mechanics, 2009, 618, 209-241.	1.4	65
40	The effect of the Basset history force on particle clustering in homogeneous and isotropic turbulence. Physics of Fluids, 2014, 26, .	1.6	65
41	Inertial migration of spherical and oblateÂparticles in straight ducts. Journal of Fluid Mechanics, 2017, 819, 540-561.	1.4	64
42	Streak interactions and breakdown in boundary layer flows. Physics of Fluids, 2008, 20, .	1.6	62
43	Receptivity, instability and breakdown of GÃ¶rtler flow. Journal of Fluid Mechanics, 2011, 682, 362-396.	1.4	61
44	DNS of a spatially developing turbulent boundary layer with passive scalar transport. International Journal of Heat and Fluid Flow, 2009, 30, 916-929.	1.1	60
45	Accumulation of motile elongated micro-organisms in turbulence. Journal of Fluid Mechanics, 2014, 739, 22-36.	1.4	60
46	The effect of particle density in turbulent channel flow laden with finite size particles in semi-dilute conditions. Physics of Fluids, 2016, 28, .	1.6	60
47	Dispersion of swimming algae in laminar and turbulent channel flows: consequences for photobioreactors. Journal of the Royal Society Interface, 2013, 10, 20121041.	1.5	59
48	A volume-of-fluid method for interface-resolved simulations of phase-changing two-fluid flows. Journal of Computational Physics, 2020, 407, 109251.	1.9	58
49	Universal Scaling Laws for Dense Particle Suspensions in Turbulent Wall-Bounded Flows. Physical Review Letters, 2016, 117, 134501.	2.9	57
50	Feedback control of three-dimensional optimal disturbances using reduced-order models. Journal of Fluid Mechanics, 2011, 677, 63-102.	1.4	56
51	Three-dimensional instability of the flow around a rotating circular cylinder. Journal of Fluid Mechanics, 2013, 730, 5-18.	1.4	56
52	First instability of the flow of shear-thinning and shear-thickening fluids past a circular cylinder. Journal of Fluid Mechanics, 2012, 701, 201-227.	1.4	55
53	Drag reduction in turbulent channel flow laden with finite-size oblate spheroids. Journal of Fluid Mechanics, 2017, 816, 43-70.	1.4	55
54	Droplets in homogeneous shear turbulence. Journal of Fluid Mechanics, 2019, 876, 962-984.	1.4	54

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55	Numerical studies of the instability and breakdown of a boundary-layer low-speed streak. European Journal of Mechanics, B/Fluids, 2007, 26, 64-82.	1.2	52
56	Active suspensions in thin films: nutrient uptake and swimmer motion. Journal of Fluid Mechanics, 2013, 733, 528-557.	1.4	52
57	A microfluidic device to sort capsules by deformability: a numerical study. Soft Matter, 2014, 10, 7705-7711.	1.2	49
58	Interface-resolved simulations of small inertial particles in turbulent channel flow. Journal of Fluid Mechanics, 2020, 883, .	1.4	49
59	Numerical simulations of emulsions in shear flows. Acta Mechanica, 2019, 230, 667-682.	1.1	48
60	Computational modeling of multiphase viscoelastic and elastoviscoplastic flows. International Journal for Numerical Methods in Fluids, 2018, 88, 521-543.	0.9	47
61	Channel flow of rigid sphere suspensions: Particle dynamics in the inertial regime. International Journal of Multiphase Flow, 2016, 78, 12-24.	1.6	46
62	Rheology of suspensions of viscoelastic spheres: Deformability as an effective volume fraction. Physical Review Fluids, 2018, 3, .	1.0	46
63	Turbulent bands in plane-Poiseuille flow at moderate Reynolds numbers. Physics of Fluids, 2015, 27, .	1.6	45
64	Flexible Fiber Reveals the Two-Point Statistical Properties of Turbulence. Physical Review Letters, 2018, 121, 044501.	2.9	44
65	Model Reduction of the Nonlinear Complex Ginzburgâ€“Landau Equation. SIAM Journal on Applied Dynamical Systems, 2010, 9, 1284-1302.	0.7	43
66	Effects of the finite particle size in turbulent wall-bounded flows of dense suspensions. Journal of Fluid Mechanics, 2018, 843, 450-478.	1.4	40
67	Transition delay in a boundary layer flow using active control. Journal of Fluid Mechanics, 2013, 731, 288-311.	1.4	39
68	Reduced particle settling speed in turbulence. Journal of Fluid Mechanics, 2016, 808, 153-167.	1.4	39
69	DNS and LES of estimation and control of transition in boundary layers subject to free-stream turbulence. International Journal of Heat and Fluid Flow, 2008, 29, 841-855.	1.1	38
70	The planar X-junction flow: stability analysis and control. Journal of Fluid Mechanics, 2014, 753, 1-28.	1.4	38
71	Sedimentation of inertia-less prolate spheroids in homogenous isotropic turbulence with application to non-motile phytoplankton. Journal of Fluid Mechanics, 2017, 831, 655-674.	1.4	38
72	Numerical study of heat transfer in laminar and turbulent pipe flow with finite-size spherical particles. International Journal of Heat and Fluid Flow, 2018, 71, 189-199.	1.1	37

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73	Transition to turbulence in the boundary layer over a smooth and rough swept plate exposed to free-stream turbulence. Journal of Fluid Mechanics, 2010, 646, 297-325.	1.4	36
74	Towards minimal perturbations in transitional plane Couette flow. Physical Review E, 2010, 82, 026316.	0.8	36
75	Numerical simulations of aggregate breakup in bounded and unbounded turbulent flows. Journal of Fluid Mechanics, 2015, 766, 104-128.	1.4	36
76	Turbulence modulation in channel flow of finite-size spheroidal particles. Journal of Fluid Mechanics, 2019, 859, 887-901.	1.4	36
77	Self-similar transport of inertial particles in a turbulent boundary layer. Journal of Fluid Mechanics, 2012, 706, 584-596.	1.4	35
78	Linear three-dimensional global and asymptotic stability analysis of incompressible open cavity flow. Journal of Fluid Mechanics, 2015, 768, 113-140.	1.4	34
79	Aspect ratio effect on particle transport in turbulent duct flows. Physics of Fluids, 2016, 28, .	1.6	34
80	An efficient mass-preserving interface-correction level set/ghost fluid method for droplet suspensions under depletion forces. Journal of Computational Physics, 2018, 353, 435-459.	1.9	34
81	Secondary threshold amplitudes for sinuous streak breakdown. Physics of Fluids, 2011, 23, .	1.6	33
82	Suspensions of deformable particles in a Couette flow. Journal of Non-Newtonian Fluid Mechanics, 2018, 262, 3-11.	1.0	33
83	Coherent structures in the turbulent channel flow of an elastoviscoplastic fluid. Journal of Fluid Mechanics, 2020, 888, .	1.4	33
84	Enhanced secondary motion of the turbulent flow through a porous square duct. Journal of Fluid Mechanics, 2015, 784, 681-693.	1.4	32
85	Particle transport in turbulent curved pipe flow. Journal of Fluid Mechanics, 2016, 793, 248-279.	1.4	32
86	Rheology of Confined Non-Brownian Suspensions. Physical Review Letters, 2016, 116, 018301.	2.9	32
87	Inertial migration of a deformable particle in pipe flow. Physical Review Fluids, 2019, 4, .	1.0	31
88	Linear and nonlinear evolution of a localized disturbance in polymeric channel flow. Journal of Fluid Mechanics, 2014, 760, 278-303.	1.4	30
89	Interface-resolved simulations of particle suspensions in Newtonian, shear thinning and shear thickening carrier fluids. Journal of Fluid Mechanics, 2018, 852, 329-357.	1.4	30
90	Turbulent duct flow with polymers. Journal of Fluid Mechanics, 2019, 859, 1057-1083.	1.4	30

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91	Elastoviscoplastic flows in porous media. Journal of Non-Newtonian Fluid Mechanics, 2018, 258, 10-21.	1.0	29
92	Study of hydrodynamics in wave bioreactors by computational fluid dynamics reveals a resonance phenomenon. Chemical Engineering Science, 2019, 193, 53-65.	1.9	29
93	Large Scale Accumulation Patterns of Inertial Particles in Wall-Bounded Turbulent Flow. Flow, Turbulence and Combustion, 2011, 86, 519-532.	1.4	28
94	The motion of a deforming capsule through a corner. Journal of Fluid Mechanics, 2015, 770, 374-397.	1.4	28
95	Turbulent channel flow of an elastoviscoplastic fluid. Journal of Fluid Mechanics, 2018, 853, 488-514.	1.4	28
96	Stability of fluids with shear-dependent viscosity in the lid-driven cavity. Journal of Non-Newtonian Fluid Mechanics, 2012, 173-174, 49-61.	1.0	25
97	Haemorheology in dilute, semi-dilute and dense suspensions of red blood cells. Journal of Fluid Mechanics, 2019, 872, 818-848.	1.4	25
98	Yield-stress fluids in porous media: a comparison of viscoplastic and elastoviscoplastic flows. Meccanica, 2020, 55, 331-342.	1.2	25
99	Broadening of Cloud Droplet Size Spectra by Stochastic Condensation: Effects of Mean Updraft Velocity and CCN Activation. Journals of the Atmospheric Sciences, 2018, 75, 451-467.	0.6	24
100	Experimental investigation of turbulent suspensions of spherical particles in a squareÂduct. Journal of Fluid Mechanics, 2018, 857, 748-783.	1.4	24
101	The breakdown of Darcy's law in a soft porous material. Soft Matter, 2020, 16, 939-944.	1.2	24
102	Increase of turbulent drag by polymers in particle suspensions. Physical Review Fluids, 2020, 5, .	1.0	24
103	Motion of an elastic capsule in a constricted microchannel. European Physical Journal E, 2015, 38, 134.	0.7	23
104	On the effect of coalescence on the rheology of emulsions. Journal of Fluid Mechanics, 2019, 880, 969-991.	1.4	23
105	An Immersed Boundary Method for flows with evaporating droplets. International Journal of Heat and Mass Transfer, 2019, 143, 118563.	2.5	23
106	Flowing fibers as a proxy of turbulence statistics. Meccanica, 2020, 55, 357-370.	1.2	23
107	Heat transfer in laminar Couette flow laden with rigid spherical particles. Journal of Fluid Mechanics, 2018, 834, 308-334.	1.4	22
108	Suspensions of finite-size neutrally buoyant spheres in turbulent duct flow. Journal of Fluid Mechanics, 2018, 851, 148-186.	1.4	22

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109	Clustering and increased settling speed of oblate particles at finite Reynolds number. Journal of Fluid Mechanics, 2018, 848, 696-721.	1.4	22
110	Inertial migration in dilute and semidilute suspensions of rigid particles in laminar square duct flow. Physical Review Fluids, 2017, 2, .	1.0	22
111	Modulation of homogeneous and isotropic turbulence in emulsions. Journal of Fluid Mechanics, 2022, 940, .	1.4	22
112	Weakly nonlinear analysis of boundary layer receptivity to free-stream disturbances. Physics of Fluids, 2002, 14, 1426-1441.	1.6	21
113	Dispersed Fibers Change the Classical Energy Budget of Turbulence via Nonlocal Transfer. Physical Review Letters, 2020, 125, 114501.	2.9	21
114	Near-wall turbulence modulation by small inertial particles. Journal of Fluid Mechanics, 2021, 922, .	1.4	21
115	Numerical study of the stabilisation of boundary-layer disturbances by finite amplitude streaks. International Journal of Flow Control, 2010, 2, 259-288.	0.4	21
116	Numerical study of filament suspensions at finite inertia. Journal of Fluid Mechanics, 2020, 882, .	1.4	20
117	Streak instability in viscoelastic Couette flow. Physical Review Fluids, 2017, 2, .	1.0	20
118	Dynamics of Three-Dimensional Turbulent Wall Plumes and Implications for Estimates of Submarine Glacier Melting. Journal of Physical Oceanography, 2018, 48, 1941-1950.	0.7	19
119	Effective slip over partially filled microcavities and its possible failure. Physical Review Fluids, 2018, 3, .	1.0	19
120	Entropy Generation in a Boundary Layer Transitioning Under the Influence of Freestream Turbulence. Journal of Fluids Engineering, Transactions of the ASME, 2011, 133, .	0.8	18
121	Modal and non-modal stability of particle-laden channel flow. Physics of Fluids, 2011, 23, .	1.6	18
122	Statistics of polymer extensions in turbulent channel flow. Physical Review E, 2012, 86, 056314.	0.8	17
123	Numerical study of hot and cold spheroidal particles in a viscous fluid. International Journal of Heat and Mass Transfer, 2020, 149, 119206.	2.5	17
124	GPU acceleration of CaNS for massively-parallel direct numerical simulations of canonical fluid flows. Computers and Mathematics With Applications, 2021, 81, 502-511.	1.4	17
125	The dynamics of a capsule in a wall-bounded oscillating shear flow. Physics of Fluids, 2015, 27, .	1.6	16
126	Numerical simulations of elastic capsules with nucleus in shear flow. European Journal of Computational Mechanics, 2017, 26, 131-153.	0.6	16

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127	Inertial settling of flexible fiber suspensions. Physical Review Fluids, 2020, 5, .	1.0	16
128	Finite-size evaporating droplets in weakly compressible homogeneous shear turbulence. Journal of Fluid Mechanics, 2022, 934, .	1.4	16
129	Settling of finite-size particles in turbulence at different volume fractions. Acta Mechanica, 2019, 230, 413-430.	1.1	15
130	Modulation of turbulence by finite-size particles in statistically steady-state homogeneous shear turbulence. Journal of Fluid Mechanics, 2020, 899, .	1.4	15
131	Turbophoresis attenuation in a turbulent channel flow with polymer additives. Journal of Fluid Mechanics, 2013, 732, 706-719.	1.4	14
132	Transition and self-sustained turbulence in dilute suspensions of finite-size particles. Theoretical and Applied Mechanics Letters, 2015, 5, 121-125.	1.3	14
133	Turbulent channel flow of a dense binary mixture of rigid particles. Journal of Fluid Mechanics, 2017, 818, 623-645.	1.4	14
134	A numerical approach for particle-vortex interactions based on volume-averaged equations. International Journal of Multiphase Flow, 2018, 104, 188-205.	1.6	14
135	Regimes of heat transfer in finite-size particle suspensions. International Journal of Heat and Mass Transfer, 2021, 177, 121514.	2.5	14
136	Stochastic approach to the receptivity problem applied to bypass transition in boundary layers. Physics of Fluids, 2008, 20, 024108.	1.6	13
137	Interaction between a Vertical Turbulent Jet and a Thermocline. Journal of Physical Oceanography, 2016, 46, 3415-3437.	0.7	13
138	Turbulence modulation by finite-size spherical particles in Newtonian and viscoelastic fluids. International Journal of Multiphase Flow, 2019, 112, 116-129.	1.6	13
139	The effect of droplet coalescence on drag in turbulent channel flows. Physics of Fluids, 2021, 33, .	1.6	13
140	Numerical study of laminar-turbulent transition in particle-laden channel flow. Physical Review E, 2013, 87, 043011.	0.8	12
141	Particle Velocity and Acceleration in Turbulent Bent Pipe Flows. Flow, Turbulence and Combustion, 2015, 95, 539-559.	1.4	12
142	Direct numerical simulation of spray droplet evaporation in hot turbulent channel flow. International Journal of Heat and Mass Transfer, 2020, 160, 120184.	2.5	12
143	Linear stability of particle laden flows: the influence of added mass, fluid acceleration and Basset history force. Meccanica, 2014, 49, 811-827.	1.2	11
144	The effect of polydispersity in a turbulent channel flow laden with finite-size particles. European Journal of Mechanics, B/Fluids, 2018, 67, 54-64.	1.2	11

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145	A mass-preserving interface-correction level set/ghost fluid method for modeling of three-dimensional boiling flows. International Journal of Heat and Mass Transfer, 2020, 162, 120382.	2.5	11
146	Numerical simulations of vorticity banding of emulsions in shear flows. Soft Matter, 2020, 16, 2854-2863.	1.2	11
147	Buoyant finite-size particles in turbulent duct flow. Physical Review Fluids, 2019, 4, .	1.0	11
148	Particle migration in channel flow of an elastoviscoplastic fluid. Journal of Non-Newtonian Fluid Mechanics, 2020, 284, 104376.	1.0	10
149	The impact of porous walls on the rheology of suspensions. Chemical Engineering Science, 2021, 230, 116178.	1.9	10
150	Role of large-scale advection and small-scale turbulence on vertical migration of gyrotactic swimmers. Physical Review Fluids, 2019, 4, .	1.0	10
151	A criterion for when an emulsion drop undergoing turbulent deformation has reached a critically deformed state. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 648, 129213.	2.3	10
152	Corrections for one- and two-point statistics measured with coarse-resolution particle image velocimetry. Experiments in Fluids, 2014, 55, 1.	1.1	9
153	Buoyancy-Driven Flow through a Bed of Solid Particles Produces a New Form of Rayleigh-Taylor Turbulence. Physical Review Letters, 2018, 121, 224501.	2.9	9
154	Modal and non-modal linear stability of Poiseuille flow through a channel with a porous substrate. European Journal of Mechanics, B/Fluids, 2019, 75, 29-43.	1.2	9
155	Low Reynolds number turbulent flows over elastic walls. Physics of Fluids, 2020, 32, .	1.6	9
156	Single sediment dynamics in turbulent flow over a porous bed â€“ insights from interface-resolved simulations. Journal of Fluid Mechanics, 2020, 893, .	1.4	9
157	Numerical simulations of a sphere settling in simple shear flows of yield stress fluids. Journal of Fluid Mechanics, 2020, 896, .	1.4	9
158	A fully Eulerian hybrid immersed boundary-phase field model for contact line dynamics on complex geometries. Journal of Computational Physics, 2021, 443, 110468.	1.9	9
159	A pressure-based diffuse interface method for low-Mach multiphase flows with mass transfer. Journal of Computational Physics, 2022, 448, 110730.	1.9	9
160	Turbulence in a network of rigid fibers. Physical Review Fluids, 2020, 5, .	1.0	9
161	Numerical study of boundary-layer receptivity on a swept wing. , 2011, , .		8
162	Statistics of Particle Accumulation in Spatially Developing Turbulent Boundary Layers. Flow, Turbulence and Combustion, 2014, 92, 27-40.	1.4	8

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163	Turbulent flow of finite-size spherical particles in channels with viscous hyper-elastic walls. Journal of Fluid Mechanics, 2019, 873, 410-440.	1.4	8
164	Finite-size spherical particles in a square duct flow of an elastoviscoplastic fluid: anÂexperimental study. Journal of Fluid Mechanics, 2020, 883, .	1.4	8
165	Sedimentation of finite-size particles in quiescent wall-bounded shear-thinning and Newtonian fluids. International Journal of Multiphase Flow, 2020, 129, 103291.	1.6	8
166	Suspensions of deformable particles in Poiseuille flows at finite inertia. Fluid Dynamics Research, 2020, 52, 065507.	0.6	8
167	Effect of elastic walls on suspension flow. Physical Review Fluids, 2019, 4, .	1.0	8
168	A data-driven model based on modal decomposition: application to the turbulent channel flow over an anisotropic porous wall. Journal of Fluid Mechanics, 2022, 939, .	1.4	8
169	Deformation and initial breakup morphology of viscous emulsion drops in isotropic homogeneous turbulence with relevance for emulsification devices. Chemical Engineering Science, 2022, 253, 117599.	1.9	8
170	Dynamics of a Turbulent Buoyant Plume in a Stratified Fluid: An Idealized Model of Subglacial Discharge in Greenland Fjords. Journal of Physical Oceanography, 2017, 47, 2611-2630.	0.7	7
171	Flow structures and shear-stress predictions in the turbulent channel flow over an anisotropic porous wall. Journal of Physics: Conference Series, 2020, 1522, 012016.	0.3	7
172	Symmetry Breaking of Tail-Clamped Filaments in Stokes Flow. Physical Review Letters, 2021, 126, 124501.	2.9	7
173	Orientation instability of settling spheroids in a linearly density-stratified fluid. Journal of Fluid Mechanics, 2021, 929, .	1.4	7
174	A Direct Numerical Simulation Investigation of the One-Phase Flow in a Simplified Emulsification Device. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .	0.8	7
175	Feedback Control of Boundary Layer Bypass Transition: Experimental and Numerical Progress. , 2009, , .		6
176	Identifying Turbulent Spots in Transitional Boundary Layers. Journal of Turbomachinery, 2013, 135, .	0.9	6
177	Flow-assisted droplet assembly in a 3D microfluidic channel. Soft Matter, 2019, 15, 3451-3460.	1.2	6
178	Utilizing the ball lens effect for astigmatism particle tracking velocimetry. Experiments in Fluids, 2020, 61, 1.	1.1	5
179	An interface capturing method for liquid-gas flows at low-Mach number. Computers and Fluids, 2021, 216, 104789.	1.3	5
180	Effect of finite Weissenberg number on turbulent channel flows of an elastoviscoplastic fluid. Journal of Fluid Mechanics, 2021, 927, .	1.4	5

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181	Feedback Control of Boundary-Layer Bypass Transition: Comparison of Simulations with Experiments. AIAA Journal, 2010, 48, 1848-1851.	1.5	4
182	Rotational propulsion enabled by inertia. European Physical Journal E, 2014, 37, 16.	0.7	4
183	On the time scales and structure of LagrangianÂintermittency in homogeneous isotropic turbulence. Journal of Fluid Mechanics, 2019, 867, 438-481.	1.4	4
184	Analogue tuning of particle focusing in elasto-inertial flow. Meccanica, 2021, 56, 1739-1749.	1.2	4
185	Fiber Tracking Velocimetry for Two-Point Statistics of Turbulence. Physical Review X, 2021, 11, .	2.8	4
186	Effect of viscosity ratio on the self-sustained instabilities in planar immiscible jets. Physical Review Fluids, 2017, 2, .	1.0	4
187	Theory of hydrodynamic interaction of two spheres in wall-bounded shear flow. Physical Review Fluids, 2020, 5, .	1.0	4
188	LES and RANS calculations of particle dispersion behind a wall-mounted cubic obstacle. International Journal of Multiphase Flow, 2022, 151, 104037.	1.6	4
189	A dual resolution phaseâ€field solver for wetting of viscoelastic droplets. International Journal for Numerical Methods in Fluids, 2022, 94, 1517-1541.	0.9	4
190	Turbulent Rayleighâ€“BÃ©nard convection in non-colloidal suspensions. Journal of Fluid Mechanics, 2022, 945, .	1.4	4
191	Numerical simulation of the coalescence-induced polymeric droplet jumping on superhydrophobic surfaces. Journal of Non-Newtonian Fluid Mechanics, 2022, 307, 104872.	1.0	4
192	EXPERIMENTAL STUDY OF THE STABILIZATION OF TOLLMIEN-SCHLICHTINGWAVES BY FINITE AMPLITUDE STREAKS. , 2006, , 299-304.		3
193	Integral representation of channel flow with interacting particles. Physical Review E, 2017, 96, 063110.	0.8	3
194	Interface-resolved simulations of small inertial particles in turbulent channel flow â€“ CORRIGENDUM. Journal of Fluid Mechanics, 2020, 891, .	1.4	3
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