Tobias M Schneider

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	From Rolling Ball to Complete Wetting:Â The Dynamic Tuning of Liquids on Nanostructured Surfaces. Langmuir, 2004, 20, 3824-3827.	1.6	477
2	Turbulence Transition in Pipe Flow. Annual Review of Fluid Mechanics, 2007, 39, 447-468.	10.8	448
3	Finite lifetime of turbulence in shear flows. Nature, 2006, 443, 59-62.	13.7	248
4	Turbulence Transition and the Edge of Chaos in Pipe Flow. Physical Review Letters, 2007, 99, 034502.	2.9	186
5	Snakes and Ladders: Localized Solutions of Plane Couette Flow. Physical Review Letters, 2010, 104, 104501.	2.9	128
6	Eliminating Turbulence in Spatially Intermittent Flows. Science, 2010, 327, 1491-1494.	6.0	98
7	Laminar-turbulent boundary in plane Couette flow. Physical Review E, 2008, 78, 037301.	0.8	88
8	Localized edge states nucleate turbulence in extended plane Couette cells. Journal of Fluid Mechanics, 2010, 646, 441-451.	1.4	82
9	Stability Landscape of Shell Buckling. Physical Review Letters, 2017, 119, 224101.	2.9	78
10	Transition in Localized Pipe Flow Turbulence. Physical Review Letters, 2009, 103, 054502.	2.9	72
11	Statistical analysis of coherent structures in transitional pipe flow. Physical Review E, 2007, 75, 066313.	0.8	62
12	Dynamical systems and the transition to turbulence in linearly stable shear flows. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 1297-1315.	1.6	60
13	Turbulent-laminar patterns in plane Poiseuille flow. Physics of Fluids, 2014, 26, .	1.6	59
14	On the measured current in electrospinning. Journal of Applied Physics, 2010, 107, 044306.	1.1	46
15	Edge states for the turbulence transition in the asymptotic suction boundary layer. Journal of Fluid Mechanics, 2013, 726, 100-122.	1.4	44
16	Basin boundary, edge of chaos and edge state in a two-dimensional model. New Journal of Physics, 2009, 11, 013040.	1.2	39
17	Algorithm for a Microfluidic Assembly Line. Physical Review Letters, 2011, 106, 094503.	2.9	38
18	Fully localized post-buckling states of cylindrical shells under axial compression. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170177.	1.0	33

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19	Edge states intermediate between laminar and turbulent dynamics in pipe flow. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 577-587.	1.6	30
20	Transient turbulence in plane Couette flow. Physical Review E, 2010, 81, 015301.	0.8	29
21	Exact invariant solution reveals the origin of self-organized oblique turbulent-laminar stripes. Nature Communications, 2019, 10, 2277.	5.8	28
22	Lifetime statistics in transitional pipe flow. Physical Review E, 2008, 78, 046310.	0.8	27
23	Infinite geometric frustration in a cubic dipole cluster. Physical Review B, 2015, 91, .	1.1	26
24	Edge of chaos in pipe flow. Chaos, 2006, 16, 041103.	1.0	25
25	Elastocapillary coalescence of plates and pillars. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140593.	1.0	24
26	Femtosecond-laser hyperdoping silicon in an SF ₆ atmosphere: Dopant incorporation mechanism. Journal of Applied Physics, 2015, 117, 125301.	1.1	24
27	Rational design of a high-throughput droplet sorter. Lab on A Chip, 2019, 19, 2220-2232.	3.1	24
28	Increasing Lifetimes and the Growing Saddles of Shear Flow Turbulence. Physical Review Letters, 2014, 112, 044503.	2.9	23
29	Buckling instabilities and spatio-temporal dynamics of active elastic filaments. Journal of the Royal Society Interface, 2020, 17, 20190794.	1.5	22
30	Creating femtosecond-laser-hyperdoped silicon with a homogeneous doping profile. Applied Physics Letters, 2015, 106, .	1.5	19
31	Spatio-temporal patterns in inclined layerÂconvection. Journal of Fluid Mechanics, 2016, 794, 719-745.	1.4	19
32	Distinct transition in flow statistics and vortex dynamics between low- and high-extent turbulent drag reduction in polymer fluids. Journal of Non-Newtonian Fluid Mechanics, 2018, 262, 115-130.	1.0	18
33	Nondestructive Prediction of the Buckling Load of Imperfect Shells. Physical Review Letters, 2020, 125, 225504.	2.9	18
34	Superspreading events suggest aerosol transmission of SARS-CoV-2 by accumulation in enclosed spaces. Physical Review E, 2021, 103, 033109.	0.8	17
35	Folded Edge of Turbulence in a Pipe. Physical Review Letters, 2010, 105, 174502.	2.9	13
36	Studying edge geometry in transiently turbulent shear flows. Journal of Fluid Mechanics, 2014, 747, 506-517.	1.4	13

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37	Homoclinic snaking in plane Couette flow: bending, skewing and finite-size effects. Journal of Fluid Mechanics, 2016, 794, 530-551.	1.4	12
38	Edge states control droplet breakup in subcritical extensional flows. Physical Review Fluids, 2018, 3, .	1.0	12
39	Secondary instability and tertiary states in rotating plane Couette flow. Journal of Fluid Mechanics, 2014, 761, 27-61.	1.4	11
40	Time-varying droplet configuration determines break-up probability of drops within a concentrated emulsion. Applied Physics Letters, 2017, 111, .	1.5	9
41	Invariant states in inclined layer convection. PartÂ1. Temporal transitions along dynamical connections between invariant states. Journal of Fluid Mechanics, 2020, 898, .	1.4	9
42	Constructing periodic orbits of high-dimensional chaotic systems by an adjoint-based variational method. Physical Review E, 2022, 105, 014217.	0.8	9
43	How does flow in a pipe become turbulent?. European Physical Journal B, 2008, 64, 457-462.	0.6	8
44	Localized travelling waves in the asymptotic suction boundary layer. Journal of Fluid Mechanics, 2016, 795, .	1.4	8
45	Interaction and breakup of droplet pairs in a microchannel Y-junction. Physical Review Fluids, 2020, 5, .	1.0	7
46	Sequencing by Hybridization of Long Targets. PLoS ONE, 2012, 7, e35819.	1.1	6
47	Variational methods for finding periodic orbits in the incompressible Navier–Stokes equations. Journal of Fluid Mechanics, 2022, 941, .	1.4	6
48	Origin of localized snakes-and-ladders solutions of plane Couette flow. Physical Review E, 2019, 100, 031102.	0.8	4
49	Invariant states in inclined layer convection. PartÂ2. Bifurcations and connections between branches of invariant states. Journal of Fluid Mechanics, 2020, 898, .	1.4	4
50	Self-similar invariant solution in the near-wall region of a turbulent boundary layer at asymptotically high Reynolds numbers. Journal of Fluid Mechanics, 2020, 888, .	1.4	3
51	Periodic orbits exhibit oblique stripe patterns in plane Couette flow. Physical Review Fluids, 2021, 6, .	1.0	3
52	Modified snaking in plane Couette flow with wall-normal suction. Journal of Fluid Mechanics, 2021, 912, .	1.4	2
53	Localization in plane Couette edge dynamics. Springer Proceedings in Physics, 2009, , 83-84.	0.1	2
54	Localized edge states for the transition to turbulence in shear flows. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 253-258.	0.1	2

#	ARTICLE	IF	CITATIONS
55	A Hybrid Peer-to-Peer and Grid Job Scheduling System for Teaming Up Desktop Resources with Computer Clusters to Perform Turbulence Simulations. , 2008, , .		1
56	Turbulenz bÃ ¤ digen. Physik in Unserer Zeit, 2010, 41, 163-164.	0.0	1
57	Dynamics at the Edge of Chaos in Pipe Flow. , 2007, , 559-561.		0
58	Oscillatory Relaxation Towards Turbulent States. , 2007, , 31-35.		0