

# Dennis Pâm Van Gils

## List of Publications by Year in descending order

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16  
papers

800  
citations

687363

13  
h-index

996975

15  
g-index

16  
all docs

16  
docs citations

16  
times ranked

526  
citing authors

#	ARTICLE	IF	CITATIONS
1	Torque Scaling in Turbulent Taylor-Couette Flow with Co- and Counterrotating Cylinders. <i>Physical Review Letters</i> , 2011, 106, 024502.	7.8	115
2	On bubble clustering and energy spectra in pseudo-turbulence. <i>Journal of Fluid Mechanics</i> , 2010, 650, 287-306.	3.4	107
3	The importance of bubble deformability for strong drag reduction in bubbly turbulent Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , 2013, 722, 317-347.	3.4	81
4	Ultimate Turbulent Taylor-Couette Flow. <i>Physical Review Letters</i> , 2012, 108, 024501.	7.8	74
5	Optimal Taylor-Couette turbulence. <i>Journal of Fluid Mechanics</i> , 2012, 706, 118-149.	3.4	73
6	Optimal Taylor-Couette flow: radius ratio dependence. <i>Journal of Fluid Mechanics</i> , 2014, 747, 1-29.	3.4	61
7	The Twente turbulent Taylor-Couette (T3C) facility: Strongly turbulent (multiphase) flow between two independently rotating cylinders. <i>Review of Scientific Instruments</i> , 2011, 82, 025105.	1.3	59
8	Bubbly Turbulent Drag Reduction Is a Boundary Layer Effect. <i>Physical Review Letters</i> , 2007, 98, 084501.	7.8	51
9	Angular momentum transport and turbulence in laboratory models of Keplerian flows. <i>Astronomy and Astrophysics</i> , 2012, 547, A64.	5.1	48
10	Boundary Zonal Flow in Rotating Turbulent Rayleigh-Bénard Convection. <i>Physical Review Letters</i> , 2020, 124, 084505.	7.8	42
11	Experimental investigation of heat transport in homogeneous bubbly flow. <i>Journal of Fluid Mechanics</i> , 2018, 845, 226-244.	3.4	31
12	Applying laser Doppler anemometry inside a Taylor-Couette geometry using a ray-tracer to correct for curvature effects. <i>European Journal of Mechanics, B/Fluids</i> , 2012, 36, 115-119.	2.5	25
13	Experimental investigation of heat transport in inhomogeneous bubbly flow. <i>Chemical Engineering Science</i> , 2019, 198, 260-267.	3.8	14
14	Rotating turbulent thermal convection at very large Rayleigh numbers. <i>Journal of Fluid Mechanics</i> , 2021, 912, .	3.4	14
15	Twente mass and heat transfer water tunnel: Temperature controlled turbulent multiphase channel flow with heat and mass transfer. <i>Review of Scientific Instruments</i> , 2019, 90, 075117.	1.3	5
16	Bubbly drag reduction in turbulent Taylor-Couette flow. <i>Springer Proceedings in Physics</i> , 2007, , 416-417.	0.2	0