

# Davide Gatti

## List of Publications by Year in descending order

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34  
papers

592  
citations

759233

12  
h-index

642732

23  
g-index

35  
all docs

35  
docs citations

35  
times ranked

462  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ascendingâ€“descending and directâ€“inverse cascades of Reynolds stresses in turbulent Couette flow. <i>Journal of Fluid Mechanics</i> , 2022, 930, .	3.4	7
2	Turbulent impinging jets on rough surfaces. <i>GAMM Mitteilungen</i> , 2022, 45, .	5.5	6
3	Effects of actuation mode on plasma-induced spanwise flow oscillations. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 205203.	2.8	3
4	Spatial resolution issues in rough wall turbulence. <i>Experiments in Fluids</i> , 2022, 63, 1.	2.4	3
5	Decomposition of the mean friction drag on an NACA4412 airfoil under uniform blowing/suction. <i>Journal of Fluid Mechanics</i> , 2022, 932, .	3.4	13
6	Drag reduction on a transonic airfoil. <i>Journal of Fluid Mechanics</i> , 2022, 942, .	3.4	12
7	Parametric Study on Ridges Inducing Secondary Motions in Turbulent Channel Flow. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, e202000139.	0.2	3
8	Coupled simulation of flow-induced viscous and elastic anisotropy of short-fiber reinforced composites. <i>Acta Mechanica</i> , 2021, 232, 2249-2268.	2.1	11
9	Global energy budgets in turbulent Couette and Poiseuille flows. <i>Journal of Fluid Mechanics</i> , 2021, 924, .	3.4	8
10	Reynolds-number scaling of a vorticity-annihilating boundary layer. <i>Journal of Fluid Mechanics</i> , 2021, 924, .	3.4	0
11	Asymptotic fiber orientation states of the quadratically closed Folgarâ€“Tucker equation and a subsequent closure improvement. <i>Journal of Rheology</i> , 2021, 65, 999-1022.	2.6	11
12	Analytical modeling and dimensionless characteristics of open wet clutches in consideration of gravity. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2021, 85, 849-857.	1.6	4
13	Uniform blowing and suction applied to nonuniform adverse-pressure-gradient wing boundary layers. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	12
14	Objective barriers to the transport of dynamically active vector fields. <i>Journal of Fluid Mechanics</i> , 2020, 905, .	3.4	15
15	Aerodynamic Effects of Uniform Blowing and Suction on a NACA4412 Airfoil. <i>Flow, Turbulence and Combustion</i> , 2020, 105, 735-759.	2.6	35
16	Virtual wall oscillations forced by a DBD plasma actuator operating under beat frequency - a concept for turbulent drag reduction. , 2020, , .		4
17	Structure function tensor equations in inhomogeneous turbulence. <i>Journal of Fluid Mechanics</i> , 2020, 898, .	3.4	23
18	On the stages of vortex decay in an impulsively stopped, rotating cylinder. <i>Journal of Fluid Mechanics</i> , 2020, 885, .	3.4	5

#	ARTICLE	IF	CITATIONS
19	Do riblets exhibit fully rough behaviour?. Experiments in Fluids, 2020, 61, 1.	2.4	15
20	Quantification of amplitude modulation in wall-bounded turbulence. Fluid Dynamics Research, 2019, 51, 011408.	1.3	40
21	An efficient numerical method for the generalised Kolmogorov equation. Journal of Turbulence, 2019, 20, 457-480.	1.4	8
22	Stokes-layer formation under absence of moving parts – A novel oscillatory plasma actuator design for turbulent drag reduction. Physics of Fluids, 2019, 31, .	4.0	38
23	Predicting Turbulent Spectra in Drag-reduced Flows. Flow, Turbulence and Combustion, 2018, 100, 1081-1099.	2.6	6
24	Global energy fluxes in turbulent channels with flow control. Journal of Fluid Mechanics, 2018, 857, 345-373.	3.4	19
25	Turbulent Duct Flow Controlled with Spanwise Wall Oscillations. Flow, Turbulence and Combustion, 2017, 99, 787-806.	2.6	12
26	Reynolds-number dependence of turbulent skin-friction drag reduction induced by spanwise forcing. Journal of Fluid Mechanics, 2016, 802, 553-582.	3.4	97
27	Interaction between inner and outer layer in drag-reduced turbulent flows. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 633-634.	0.2	2
28	Turbulent Skin-Friction Drag Reduction at High Reynolds Numbers. , 2016, , 389-398.		1
29	Experimental assessment of spanwise-oscillating dielectric electroactive surfaces for turbulent drag reduction in an air channel flow. Experiments in Fluids, 2015, 56, 1.	2.4	26
30	Dynamic performance of silicone dielectric elastomer actuators with bi-stable buckled beams. Proceedings of SPIE, 2014, , .	0.8	1
31	The dielectric breakdown limit of silicone dielectric elastomer actuators. Applied Physics Letters, 2014, 104, .	3.3	88
32	Performance losses of drag-reducing spanwise forcing at moderate values of the Reynolds number. Physics of Fluids, 2013, 25, .	4.0	46
33	Turbulent drag reduction at moderate Reynolds numbers via spanwise velocity waves. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 563-564.	0.2	1
34	Investigation of Blowing and Suction for Turbulent Flow Control on Airfoils. AIAA Journal, 0, , 1-15.	2.6	17