

Davide Gatti

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

592
citations

759233

12
h-index

642732

23
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35
all docs

35
docs citations

35
times ranked

462
citing authors

#	ARTICLE	IF	CITATIONS
1	Reynolds-number dependence of turbulent skin-friction drag reduction induced by spanwise forcing. <i>Journal of Fluid Mechanics</i> , 2016, 802, 553-582.	3.4	97
2	The dielectric breakdown limit of silicone dielectric elastomer actuators. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	88
3	Performance losses of drag-reducing spanwise forcing at moderate values of the Reynolds number. <i>Physics of Fluids</i> , 2013, 25, .	4.0	46
4	Quantification of amplitude modulation in wall-bounded turbulence. <i>Fluid Dynamics Research</i> , 2019, 51, 011408.	1.3	40
5	Stokes-layer formation under absence of moving parts – A novel oscillatory plasma actuator design for turbulent drag reduction. <i>Physics of Fluids</i> , 2019, 31, .	4.0	38
6	Aerodynamic Effects of Uniform Blowing and Suction on a NACA4412 Airfoil. <i>Flow, Turbulence and Combustion</i> , 2020, 105, 735-759.	2.6	35
7	Experimental assessment of spanwise-oscillating dielectric electroactive surfaces for turbulent drag reduction in an air channel flow. <i>Experiments in Fluids</i> , 2015, 56, 1.	2.4	26
8	Structure function tensor equations in inhomogeneous turbulence. <i>Journal of Fluid Mechanics</i> , 2020, 898, .	3.4	23
9	Global energy fluxes in turbulent channels with flow control. <i>Journal of Fluid Mechanics</i> , 2018, 857, 345-373.	3.4	19
10	Investigation of Blowing and Suction for Turbulent Flow Control on Airfoils. <i>AIAA Journal</i> , 0, , 1-15.	2.6	17
11	Objective barriers to the transport of dynamically active vector fields. <i>Journal of Fluid Mechanics</i> , 2020, 905, .	3.4	15
12	Do riblets exhibit fully rough behaviour?. <i>Experiments in Fluids</i> , 2020, 61, 1.	2.4	15
13	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
14	Turbulent Duct Flow Controlled with Spanwise Wall Oscillations. <i>Flow, Turbulence and Combustion</i> , 2017, 99, 787-806.	2.6	12
15	Uniform blowing and suction applied to nonuniform adverse-pressure-gradient wing boundary layers. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	12
16	Drag reduction on a transonic airfoil. <i>Journal of Fluid Mechanics</i> , 2022, 942, .	3.4	12
17	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
18	Asymptotic fiber orientation states of the quadratically closed Folgar–Tucker equation and a subsequent closure improvement. <i>Journal of Rheology</i> , 2021, 65, 999-1022.	2.6	11

#	ARTICLE	IF	CITATIONS
19	An efficient numerical method for the generalised Kolmogorov equation. Journal of Turbulence, 2019, 20, 457-480.	1.4	8
20	Global energy budgets in turbulent Couette and Poiseuille flows. Journal of Fluid Mechanics, 2021, 924, .	3.4	8
21	Ascendingâ€“descending and directâ€“inverse cascades of Reynolds stresses in turbulent Couette flow. Journal of Fluid Mechanics, 2022, 930, .	3.4	7
22	Predicting Turbulent Spectra in Drag-reduced Flows. Flow, Turbulence and Combustion, 2018, 100, 1081-1099.	2.6	6
23	Turbulent impinging jets on rough surfaces. GAMM Mitteilungen, 2022, 45, .	5.5	6
24	On the stages of vortex decay in an impulsively stopped, rotating cylinder. Journal of Fluid Mechanics, 2020, 885, .	3.4	5
25	Virtual wall oscillations forced by a DBD plasma actuator operating under beat frequency - a concept for turbulent drag reduction. , 2020, , .		4
26	Analytical modeling and dimensionless characteristics of open wet clutches in consideration of gravity. Forschung Im Ingenieurwesen/Engineering Research, 2021, 85, 849-857.	1.6	4
27	Parametric Study on Ridges Inducing Secondary Motions in Turbulent Channel Flow. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000139.	0.2	3
28	Effects of actuation mode on plasma-induced spanwise flow oscillations. Journal Physics D: Applied Physics, 2022, 55, 205203.	2.8	3
29	Spatial resolution issues in rough wall turbulence. Experiments in Fluids, 2022, 63, 1.	2.4	3
30	Interaction between inner and outer layer in dragâ€“reduced turbulent flows. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 633-634.	0.2	2
31	Turbulent drag reduction at moderate Reynolds numbers via spanwise velocity waves. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 563-564.	0.2	1
32	Dynamic performance of silicone dielectric elastomer actuators with bi-stable buckled beams. Proceedings of SPIE, 2014, , .	0.8	1
33	Turbulent Skin-Friction Drag Reduction at High Reynolds Numbers. , 2016, , 389-398.		1
34	Reynolds-number scaling of a vorticity-annihilating boundary layer. Journal of Fluid Mechanics, 2021, 924, .	3.4	0