

Lionel Agostini

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

582
citations

687220

13
h-index

839398

18
g-index

19
all docs

19
docs citations

19
times ranked

377
citing authors

#	ARTICLE	IF	CITATIONS
1	On the influence of outer large-scale structures on near-wall turbulence in channel flow. Physics of Fluids, 2014, 26, .	1.6	72
2	Spanwise oscillatory wall motion in channel flow: drag-reduction mechanisms inferred from DNS-predicted phase-wise property variations at. Journal of Fluid Mechanics, 2014, 743, 606-635.	1.4	67
3	Zones of Influence and Shock Motion in a Shock/Boundary-Layer Interaction. AIAA Journal, 2012, 50, 1377-1387.	1.5	65
4	Mechanism of shock unsteadiness in separated shock/boundary-layer interactions. Physics of Fluids, 2015, 27, .	1.6	59
5	Predicting the response of small-scale near-wall turbulence to large-scale outer motions. Physics of Fluids, 2016, 28, .	1.6	59
6	Exploration and prediction of fluid dynamical systems using auto-encoder technology. Physics of Fluids, 2020, 32, .	1.6	46
7	Skewness-induced asymmetric modulation of small-scale turbulence by large-scale structures. Physics of Fluids, 2016, 28, .	1.6	39
8	Spectral analysis of near-wall turbulence in channel flow at $Re_{\tau} = 4200$ with emphasis on the attached-eddy hypothesis. Physical Review Fluids, 2017, 2, .	1.0	34
9	The connection between the spectrum of turbulent scales and the skin-friction statistics in channel flow at. Journal of Fluid Mechanics, 2019, 871, 22-51.	1.4	28
10	The Impact of Footprints of Large-Scale Outer Structures on the Near-Wall Layer in the Presence of Drag-Reducing Spanwise Wall Motion. Flow, Turbulence and Combustion, 2018, 100, 1037-1061.	1.4	27
11	The turbulence vorticity as a window to the physics of friction-drag reduction by oscillatory wall motion. International Journal of Heat and Fluid Flow, 2015, 51, 3-15.	1.1	25
12	On the validity of the quasi-steady-turbulence hypothesis in representing the effects of large scales on small scales in boundary layers. Physics of Fluids, 2016, 28, .	1.6	22
13	On the departure of near-wall turbulence from the quasi-steady state. Journal of Fluid Mechanics, 2019, 871, .	1.4	15
14	Multi-scale interactions in a compressible boundary layer. Journal of Turbulence, 2017, 18, 760-780.	0.5	9
15	Dynamics of separation bubble dilation and collapse in shock wave/turbulent boundary layer interactions. Shock Waves, 2020, 30, 63-75.	1.0	6
16	Statistical analysis of outer large-scale/inner-layer interactions in channel flow subjected to oscillatory drag-reducing wall motion using a multiple-variable joint-probability-density function methodology. Journal of Fluid Mechanics, 2021, 923, .	1.4	5
17	Directivity and intermittency in the nearfield of a Mach 1.3 jet. International Journal of Aeroacoustics, 2017, 16, 135-164.	0.8	2
18	Numerical study of shock-turbulent boundary layer interactions with incipient and complete separation. International Journal of Engineering Systems Modelling and Simulation, 2011, 3, 46.	0.2	1

#	ARTICLE	IF	CITATIONS
19	Optimal state feedback control of streaks and görtler vortices induced by free-stream vortical disturbances. , 2014, , .		1