Elisabetta De Angelis

List of Publications by Year
in descending order

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Version: 2024-02-01

48 papers	998 citations	394421 19 h-index	434195 31 g-index
49 all docs	49 docs citations	49 times ranked	617 citing authors

#	Article	IF	Citations
1	Structure of turbulence in temporal planar jets. Physics of Fluids, 2022, 34, 045109.	4.0	2
2	Spatially evolving cascades in temporal planar jets. Journal of Fluid Mechanics, 2021, 910, .	3.4	10
3	Resolved dynamics and subgrid stresses in separating and reattaching flows. Physics of Fluids, 2019, 31, .	4.0	8
4	Resolved and subgrid dynamics of Rayleighâ€“BÃ©nard convection. Journal of Fluid Mechanics, 2019, 867, 906-933.	3.4	7
5	On negative turbulence production phenomena in the shear layer of separating and reattaching flows. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 1019-1026.	2.1	30
6	Small scale dynamics of a shearless turbulent/non-turbulent interface in dilute polymer solutions. Physics of Fluids, 2017, 29, 075102.	4.0	10
7	Towards an Improved Subgrid-Scale Model for Thermally Driven Flows. Springer Proceedings in Physics, 2017, , 141-145.	0.2	1
8	Turbulent Rayleigh-BÃ©nard convection with polymers: Understanding how heat flux is modified. Physical Review E, 2016, 94, 063110.	2.1	8
9	A Numerical Study of the Shear-Less Turbulent/Non-turbulent Interface. Springer Proceedings in Physics, 2016, , 37-40.	0.2	0
10	Cascades and wall-normal fluxes in turbulent channel flows. Journal of Fluid Mechanics, 2016, 796, 417-436.	3.4	69
11	Backward Energy Transfer and Subgrid Modeling Approaches in Wall-Turbulence. Springer Proceedings in Physics, 2016, , 75-78.	0.2	0
12	Multi-scale Analysis of Turbulent Rayleigh-BÃ©nard Convection. Springer Proceedings in Physics, 2016, , 295-298.	0.2	0
13	Physical and scale-by-scale analysis of Rayleighâ€“BÃ©nard convection. Journal of Fluid Mechanics, 2015, 782, 380-404.	3.4	30
14	Spectral enstrophy budget in a shear-less flow with turbulent/non-turbulent interface. Physics of Fluids, 2015, 27, .	4.0	16
15	Sources and fluxes of scale energy in the overlap layer of wall turbulence. Journal of Fluid Mechanics, 2015, 771, 407-423.	3.4	26
16	The physics of energy transfer toward improved subgrid-scale models. Physics of Fluids, 2014, 26, 055103.	4.0	32
17	The attached reverse and detached forward cascades in wall-turbulent flows. Journal of Physics: Conference Series, 2014, 506, 012005.	0.4	1
18	Turbulent Production and Subgrid Dynamics in Wall Flows. Springer Proceedings in Physics, 2014, , 107-111.	0.2	0

#	Article	IF	Citations
19	Study of the Outer Self-regeneration of Turbulence in Wall Flows. Springer Proceedings in Physics, 2014, , 85-89.	0.2	0
20	Paths of energy in turbulent channel flows. Journal of Fluid Mechanics, 2013, 715, 436-451.	3.4	90
21	Prediction of turbulence control for arbitrary periodic spanwise wall movement. Physics of Fluids, 2013, 25, .	4.0	14
22	Anisotropic dynamics and sub-grid energy transfer in wall-turbulence. Physics of Fluids, 2012, 24, 015102.	4.0	26
23	Flow simulations with multi-particle collision dynamics. Meccanica, 2012, 47, 2069-2077.	2.0	4
24	Reynolds number effects on scale energy balance in wall turbulence. Physics of Fluids, 2012, 24, 015101.	4.0	25
25	Energy spectra in viscoelastic turbulence. Physica D: Nonlinear Phenomena, 2012, 241, 297-303.	2.8	9
26	Effect of the spatial filtering and alignment error of hot-wire probes in a wall-bounded turbulent flow. Measurement Science and Technology, 2011, 22, 105408.	2.6	15
27	Turbulent energy routes in viscoelastic wall turbulence. Journal of Physics: Conference Series, 2011, 318, 092012.	0.4	1
28	Analysis of the Kolmogorov equation for filtered wall-turbulent flows. Journal of Fluid Mechanics, 2011, 676, 376-395.	3.4	19
29	Confined dynamics of a single DNA molecule. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2329-2336.	3.4	6
30	Assessment of the turbulent energy paths from the origin to dissipation in wall-turbulence. Journal of Physics: Conference Series, 2011, 318, 022007.	0.4	3
31	Energy cascade and spatial fluxes of filtered wall-turbulent flows. ERCOFTAC Series, 2011, , 47-56.	0.1	0
32	Anisotropic dynamics in filtered wall-turbulent flows. ERCOFTAC Series, 2011, , 51-56.	0.1	0
33	Effect of Polymer Additives on Heat Transport in Turbulent Thermal Convection. Physical Review Letters, 2010, 104, 024502.	7.8	40
34	Dynamics of Viscoelastic Wall Turbulence in Different Ranges of Scales. Springer Proceedings in Physics, 2009, , 195-198.	0.2	0
35	Comparison of theory and direct numerical simulations of drag reduction by rodlike polymers in turbulent channel flows. Physical Review E, 2008, 77, 046309.	2.1	16
36	Energy transfer in turbulent polymer solutions. Journal of Fluid Mechanics, 2007, 581, 419-436.	3.4	20

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37	Turbulence of drag-reducing polymer solutions. , 2007, , 257-264.		0
38	Maximum drag reduction asymptotes and the cross-over to the Newtonian plug. Journal of Fluid Mechanics, 2006, 551, 185.	3.4	32
39	Molecular Dynamics Simulation of Ratchet Motion in an Asymmetric Nanochannel. Physical Review Letters, 2006, 97, 144509.	7.8	31
40	An extended FENE dumbbell model theory for concentration dependent shear-induced anisotropy in dilute polymer solutions: addenda. Journal of Non-Newtonian Fluid Mechanics, 2005, 125, 87-90.	2.4	5
41	Identification and Calculation of the Universal Asymptote for Drag Reduction by Polymers in Wall Bounded Turbulence. Physical Review Letters, 2005, 95, 194502.	7.8	34
42	Homogeneous isotropic turbulence in dilute polymers. Journal of Fluid Mechanics, 2005, 531, 1-10.	3.4	75
43	Drag reduction by a linear viscosity profile. Physical Review E, 2004, 70, 055301.	2.1	37
44	Substructural interactions and transport in polymer flows. International Journal of Non-Linear Mechanics, 2004, 39, 457-465.	2.6	2
45	Drag reduction by polymers in turbulent channel flows: Energy redistribution between invariant empirical modes. Physical Review E, 2003, 67, 056312.	2.1	54
46	Shell model for drag reduction with polymer additives in homogeneous turbulence. Physical Review E, 2003, 68, 016308.	2.1	26
47	Polymer dynamics in wall turbulent flow. Europhysics Letters, 2002, 58, 616-622.	2.0	30
48	DNS of wall turbulence: dilute polymers and self-sustaining mechanisms. Computers and Fluids, 2002, 31, 495-507.	2.5	134