

Elisabetta De Angelis

List of Publications by Year in descending order

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48
papers

998
citations

394421

19
h-index

434195

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g-index

49
all docs

49
docs citations

49
times ranked

617
citing authors

#	ARTICLE	IF	CITATIONS
1	DNS of wall turbulence: dilute polymers and self-sustaining mechanisms. <i>Computers and Fluids</i> , 2002, 31, 495-507.	2.5	134
2	Paths of energy in turbulent channel flows. <i>Journal of Fluid Mechanics</i> , 2013, 715, 436-451.	3.4	90
3	Homogeneous isotropic turbulence in dilute polymers. <i>Journal of Fluid Mechanics</i> , 2005, 531, 1-10.	3.4	75
4	Cascades and wall-normal fluxes in turbulent channel flows. <i>Journal of Fluid Mechanics</i> , 2016, 796, 417-436.	3.4	69
5	Drag reduction by polymers in turbulent channel flows: Energy redistribution between invariant empirical modes. <i>Physical Review E</i> , 2003, 67, 056312.	2.1	54
6	Effect of Polymer Additives on Heat Transport in Turbulent Thermal Convection. <i>Physical Review Letters</i> , 2010, 104, 024502.	7.8	40
7	Drag reduction by a linear viscosity profile. <i>Physical Review E</i> , 2004, 70, 055301.	2.1	37
8	Identification and Calculation of the Universal Asymptote for Drag Reduction by Polymers in Wall Bounded Turbulence. <i>Physical Review Letters</i> , 2005, 95, 194502.	7.8	34
9	Maximum drag reduction asymptotes and the cross-over to the Newtonian plug. <i>Journal of Fluid Mechanics</i> , 2006, 551, 185.	3.4	32
10	The physics of energy transfer toward improved subgrid-scale models. <i>Physics of Fluids</i> , 2014, 26, 055103.	4.0	32
11	Molecular Dynamics Simulation of Ratchet Motion in an Asymmetric Nanochannel. <i>Physical Review Letters</i> , 2006, 97, 144509.	7.8	31
12	Polymer dynamics in wall turbulent flow. <i>Europhysics Letters</i> , 2002, 58, 616-622.	2.0	30
13	Physical and scale-by-scale analysis of Rayleigh-Bénard convection. <i>Journal of Fluid Mechanics</i> , 2015, 782, 380-404.	3.4	30
14	On negative turbulence production phenomena in the shear layer of separating and reattaching flows. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 1019-1026.	2.1	30
15	Shell model for drag reduction with polymer additives in homogeneous turbulence. <i>Physical Review E</i> , 2003, 68, 016308.	2.1	26
16	Anisotropic dynamics and sub-grid energy transfer in wall-turbulence. <i>Physics of Fluids</i> , 2012, 24, 015102.	4.0	26
17	Sources and fluxes of scale energy in the overlap layer of wall turbulence. <i>Journal of Fluid Mechanics</i> , 2015, 771, 407-423.	3.4	26
18	Reynolds number effects on scale energy balance in wall turbulence. <i>Physics of Fluids</i> , 2012, 24, 015101.	4.0	25

#	ARTICLE	IF	CITATIONS
19	Energy transfer in turbulent polymer solutions. <i>Journal of Fluid Mechanics</i> , 2007, 581, 419-436.	3.4	20
20	Analysis of the Kolmogorov equation for filtered wall-turbulent flows. <i>Journal of Fluid Mechanics</i> , 2011, 676, 376-395.	3.4	19
21	Comparison of theory and direct numerical simulations of drag reduction by rodlike polymers in turbulent channel flows. <i>Physical Review E</i> , 2008, 77, 046309.	2.1	16
22	Spectral enstrophy budget in a shear-less flow with turbulent/non-turbulent interface. <i>Physics of Fluids</i> , 2015, 27, .	4.0	16
23	Effect of the spatial filtering and alignment error of hot-wire probes in a wall-bounded turbulent flow. <i>Measurement Science and Technology</i> , 2011, 22, 105408.	2.6	15
24	Prediction of turbulence control for arbitrary periodic spanwise wall movement. <i>Physics of Fluids</i> , 2013, 25, .	4.0	14
25	Small scale dynamics of a shearless turbulent/non-turbulent interface in dilute polymer solutions. <i>Physics of Fluids</i> , 2017, 29, 075102.	4.0	10
26	Spatially evolving cascades in temporal planar jets. <i>Journal of Fluid Mechanics</i> , 2021, 910, .	3.4	10
27	Energy spectra in viscoelastic turbulence. <i>Physica D: Nonlinear Phenomena</i> , 2012, 241, 297-303.	2.8	9
28	Turbulent Rayleigh-Bénard convection with polymers: Understanding how heat flux is modified. <i>Physical Review E</i> , 2016, 94, 063110.	2.1	8
29	Resolved dynamics and subgrid stresses in separating and reattaching flows. <i>Physics of Fluids</i> , 2019, 31, .	4.0	8
30	Resolved and subgrid dynamics of Rayleigh-Bénard convection. <i>Journal of Fluid Mechanics</i> , 2019, 867, 906-933.	3.4	7
31	Confined dynamics of a single DNA molecule. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 2329-2336.	3.4	6
32	An extended FENE dumbbell model theory for concentration dependent shear-induced anisotropy in dilute polymer solutions: addenda. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2005, 125, 87-90.	2.4	5
33	Flow simulations with multi-particle collision dynamics. <i>Meccanica</i> , 2012, 47, 2069-2077.	2.0	4
34	Assessment of the turbulent energy paths from the origin to dissipation in wall-turbulence. <i>Journal of Physics: Conference Series</i> , 2011, 318, 022007.	0.4	3
35	Substructural interactions and transport in polymer flows. <i>International Journal of Non-Linear Mechanics</i> , 2004, 39, 457-465.	2.6	2
36	Structure of turbulence in temporal planar jets. <i>Physics of Fluids</i> , 2022, 34, 045109.	4.0	2

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37	Turbulent energy routes in viscoelastic wall turbulence. Journal of Physics: Conference Series, 2011, 318, 092012.	0.4	1
38	The attached reverse and detached forward cascades in wall-turbulent flows. Journal of Physics: Conference Series, 2014, 506, 012005.	0.4	1
39	Towards an Improved Subgrid-Scale Model for Thermally Driven Flows. Springer Proceedings in Physics, 2017, , 141-145.	0.2	1
40	A Numerical Study of the Shear-Less Turbulent/Non-turbulent Interface. Springer Proceedings in Physics, 2016, , 37-40.	0.2	0
41	Backward Energy Transfer and Subgrid Modeling Approaches in Wall-Turbulence. Springer Proceedings in Physics, 2016, , 75-78.	0.2	0
42	Dynamics of Viscoelastic Wall Turbulence in Different Ranges of Scales. Springer Proceedings in Physics, 2009, , 195-198.	0.2	0
43	Energy cascade and spatial fluxes of filtered wall-turbulent flows. ERCOFTAC Series, 2011, , 47-56.	0.1	0
44	Anisotropic dynamics in filtered wall-turbulent flows. ERCOFTAC Series, 2011, , 51-56.	0.1	0
45	Turbulent Production and Subgrid Dynamics in Wall Flows. Springer Proceedings in Physics, 2014, , 107-111.	0.2	0
46	Study of the Outer Self-regeneration of Turbulence in Wall Flows. Springer Proceedings in Physics, 2014, , 85-89.	0.2	0
47	Multi-scale Analysis of Turbulent Rayleigh-B�nard Convection. Springer Proceedings in Physics, 2016, , 295-298.	0.2	0
48	Turbulence of drag-reducing polymer solutions. , 2007, , 257-264.		0