Alessandra S Lanotte

List of Publications by Year
in descending order

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77	5,606	117625	74163
papers	citations	34 h-index	75 g-index

83	83	83	2681
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Response of shearâ€activated nanotherapeutic particles in a clotâ€obstructed blood vessel by <scp>CFDâ€DEM</scp> simulations. Canadian Journal of Chemical Engineering, 2022, 100, 3562-3574.	1.7	7
2	Enhancement of Parametric Effects in Polariton Waveguides Induced by Dipolar Interactions. Physical Review Letters, 2021, 126, 137401.	7.8	9
3	Dynamics of a Vortex Lattice in an Expanding Polariton Quantum Fluid. Physical Review Letters, 2021, 127, 047401.	7.8	5
4	Superballistic flow of viscous electron fluid through graphene constrictions. Nature Physics, 2017, 13, 1182-1185.	16.7	288
5	Introduction to Focus Issue: Two-Dimensional Turbulence. Physics of Fluids, 2017, 29, .	4.0	17
6	Effects of vertical shear in modelling horizontal oceanic dispersion. Ocean Science, 2016, 12, 207-216.	3.4	4
7	On the vortex dynamics in fractal Fourier turbulence. European Physical Journal E, 2016, 39, 49.	1.6	14
8	Lagrangian statistics for Navierâ€“Stokes turbulence under Fourier-mode reduction: fractal and homogeneous decimations. New Journal of Physics, 2016, 18, 113047.	2.9	26
9	The Role of Hydrodynamic Processes on Anchovy Eggs and Larvae Distribution in the Sicily Channel (Mediterranean Sea): A Case Study for the 2004 Data Set. PLoS ONE, 2015, 10, e0123213.	2.5	37
10	Turbulence on a Fractal Fourier Set. Physical Review Letters, 2015, 115, 264502.	7.8	43
11	Numerical simulations of aggregate breakup in bounded and unbounded turbulent flows. Journal of Fluid Mechanics, 2015, 766, 104-128.	3.4	36
12	The role of subsidence in a weakly unstable marine boundary layer: a case study. Nonlinear Processes in Geophysics, 2014, 21, 489-501.	1.3	1
13	The hysteresis cycle of concentration in a solution droplet under changing humidity. EPJ Applied Physics, 2014, 67, 11101.	0.7	0
14	An accurate and efficient Lagrangian sub-grid model. Physics of Fluids, 2014, 26, 095101.	4.0	15
15	Pair and multi-particle dispersion in numerical simulations of convective boundary layer turbulence. Physics of Fluids, 2014, 26, .	4.0	11
16	Intermittency in the relative separations of tracers and of heavy particles in turbulent flows. Journal of Fluid Mechanics, 2014, 757, 550-572.	3.4	23
17	Flightâ€“crash events in turbulence. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7558-7563.	7.1	72
18	Lagrangian simulations and interannual variability of anchovy egg and larva dispersal in the Sicily Channel. Journal of Geophysical Research: Oceans, 2014, 119, 1306-1323.	2.6	31

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19	Internal stresses and breakup of rigid isostatic aggregates in homogeneous and isotropic turbulence. Journal of Fluid Mechanics, 2014, 755, 365-396.	3.4	25
20	Scalar Turbulence in Convective Boundary Layers by Changing the Entrainment Flux. Journals of the Atmospheric Sciences, 2013, 70, 248-265.	1.7	10
21	A new assessment of the second-order moment of Lagrangian velocity increments in turbulence. Journal of Turbulence, 2013, 14, 34-48.	1.4	12
22	Breakup of small aggregates driven by turbulent hydrodynamical stress. Physical Review E, 2012, 85, 025301.	2.1	32
23	On Lagrangian single-particle statistics. Physics of Fluids, 2012, 24, 055102.	4.0	46
24	Flux correlations in supersonic isothermal turbulence. Journal of Fluid Mechanics, 2012, 713, 482-490.	3.4	28
25	Active and passive scalar intermittent statistics in turbulent atmospheric convection. Physica D: Nonlinear Phenomena, 2012, 241, 251-259.	2.8	18
26	Upscale energy transfer in thick turbulent fluidÂlayers. Nature Physics, 2011, 7, 321-324.	16.7	139
27	Turbulent pair dispersion of inertial particles. Journal of Fluid Mechanics, 2010, 645, 497-528.	3.4	81
28	New relations for correlation functions in Navierâ€“Stokes turbulence. Journal of Fluid Mechanics, 2010, 644, 465-472.	3.4	55
29	Intermittency in the velocity distribution of heavy particles in turbulence. Journal of Fluid Mechanics, 2010, 646, 527-536.	3.4	103
30	Cloud Droplet Growth by Condensation in Homogeneous Isotropic Turbulence. Journals of the Atmospheric Sciences, 2009, 66, 1685-1697.	1.7	66
31	Spectrally condensed turbulence in thin layers. Physics of Fluids, 2009, 21, .	4.0	99
32	Could waves mix the ocean?. Journal of Fluid Mechanics, 2009, 638, 1-4.	3.4	20
33	Statistical behaviour of isotropic and anisotropic fluctuations in homogeneous turbulence. Physica D: Nonlinear Phenomena, 2008, 237, 1969-1975.	2.8	10
34	Lagrangian structure functions in turbulence: A quantitative comparison between experiment and direct numerical simulation. Physics of Fluids, 2008, 20, .	4.0	74
35	Universal Intermittent Properties of Particle Trajectories in Highly Turbulent Flows. Physical Review Letters, 2008, 100, 254504.	7.8	145
36	Heavy Particle Clustering in Turbulent Flows. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2008, , 79-84.	0.2	0

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37	Anisotropies and Universality of Buoyancy-Dominated Turbulent Fluctuations: A Large-Eddy Simulation Study. Journals of the Atmospheric Sciences, 2007, 64, 2642-2656.	1.7	10
38	Heavy Particle Concentration in Turbulence at Dissipative and Inertial Scales. Physical Review Letters, 2007, 98, 084502.	7.8	283
39	Lagrangian and Eulerian descriptions of inertial particles in random flows. Journal of Turbulence, 2007, 8, N16.	1.4	28
40	Nodal patterns of floaters in surface waves. European Physical Journal: Special Topics, 2007, 145, 125-136.	2.6	13
41	Nodal lines in turbulence. European Physical Journal: Special Topics, 2007, 145, 211-216.	2.6	1
42	Acceleration statistics of heavy particles in turbulence. Journal of Fluid Mechanics, 2006, 550, 349.	3.4	211
43	Dynamics and statistics of heavy particles in turbulent flows. Journal of Turbulence, 2006, 7, N36.	1.4	67
44	Conformal invariance in two-dimensional turbulence. Nature Physics, 2006, 2, 124-128.	16.7	154
45	Effects of vortex filaments on the velocity of tracers and heavy particles in turbulence. Physics of Fluids, 2006, 18, 081702.	4.0	35
46	Lagrangian statistics in fully developed turbulence. Journal of Turbulence, 2006, 7, N6.	1.4	14
47	Droplet condensation in turbulent flows. Europhysics Letters, 2005, 70, 775-781.	2.0	50
48	Floater clustering in a standing wave. Nature, 2005, 435, 1045-1046.	27.8	69
49	Acceleration and vortex filaments in turbulence. Journal of Turbulence, 2005, 6, N15.	1.4	29
50	Particle trapping in three-dimensional fully developed turbulence. Physics of Fluids, 2005, 17, 021701.	4.0	132
51	Effects of Forcing in Three-Dimensional Turbulent Flows. Physical Review Letters, 2004, 92, 094503.	7.8	34
52	Multifractal Statistics of Lagrangian Velocity and Acceleration in Turbulence. Physical Review Letters, 2004, 93, 064502.	7.8	192
53	Universality of anisotropic turbulence. Physica A: Statistical Mechanics and Its Applications, 2004, 338, 194-200.	2.6	7
54	Theoretical and numerical study of highly anisotropic turbulent flows. European Journal of Mechanics, B/Fluids, 2004, 23, 401-414.	2.5	12

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55	Anomalous scaling and universality in hydrodynamic systems with power-law forcing. New Journal of Physics, 2004, 6, 37-37.	2.9	26
56	The decay of homogeneous anisotropic turbulence. Physics of Fluids, 2003, 15, 2105-2112.	4.0	33
57	Inverse velocity statistics in two-dimensional turbulence. Physics of Fluids, 2003, 15, 1012-1020.	4.0	18
58	Anomalous and dimensional scaling in anisotropic turbulence. Physical Review E, 2002, 66, 056306.	2.1	33
59	Acceleration of rain initiation by cloud turbulence. Nature, 2002, 419, 151-154.	27.8	533
60	Particles and fields in fluid turbulence. Reviews of Modern Physics, 2001, 73, 913-975.	45.6	1,079
61	Fronts in passive scalar turbulence. Physics of Fluids, 2001, 13, 1768-1783.	4.0	91
62	Inverse Statistics of Smooth Signals: The Case of Two Dimensional Turbulence. Physical Review Letters, 2001, 87, 124501.	7.8	19
63	Intermittent Distribution of Inertial Particles in Turbulent Flows. Physical Review Letters, 2001, 86, 2790-2793.	7.8	300
64	Universality and Saturation of Intermittency in Passive Scalar Turbulence. Physical Review Letters, 2000, 84, 2385-2388.	7.8	103
65	Persistence of small-scale anisotropies and anomalous scaling in a model of magnetohydrodynamics turbulence. Physical Review E, 2000, 61, 6586-6605.	2.1	67
66	Coherent structures in random shell models for passive scalar advection. Physical Review E, 1999, 60, R6299-R6302.	2.1	8
67	Large-scale dynamo produced by negative magnetic eddy diffusivities. Geophysical and Astrophysical Fluid Dynamics, 1999, 91, 131-146.	1.2	35
68	Passive scalar intermittency in compressible flow. Physical Review E, 1999, 60, R1138-R1141.	2.1	17
69	Anisotropic nonperturbative zero modes for passively advected magnetic fields. Physical Review E, 1999, 60, R3483-R3486.	2.1	53
70	Large-scale properties of passive scalar advection. Physics of Fluids, 1999, 11, 2269-2279.	4.0	14
71	Two complementary descriptions of intermittency. Physical Review E, 1998, 57, R1231-R1234.	2.1	13
72	Three-point correlation function of a scalar mixed by an almost smooth random velocity field. Physical Review E, 1997, 55, R4881-R4884.	2.1	17

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73	Single-Point Velocity Distribution in Turbulence. Physical Review Letters, 1997, 79, 4159-4161.	7.8	35
74	Viscous Instanton for Burgers' Turbulence. International Journal of Modern Physics B, 1997, 11, 3223-3245.	2.0	8
75	Intermittency of Burgers' Turbulence. Physical Review Letters, 1997, 78, 1452-1455.	7.8	108
76	Nonuniversality of the Scaling Exponents of a Passive Scalar Convected by a Random Flow. Physical Review Letters, 1996, 76, 3707-3710.	7.8	47
77	THEORY OF RANDOM ADVECTION IN TWO DIMENSIONS. International Journal of Modern Physics B, 1996, 10, 2273-2309.	2.0	4