

Alexandros Alexakis

List of Publications by Year in descending order

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84
papers

2,533
citations

201385

27
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48
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85
all docs

85
docs citations

85
times ranked

1153
citing authors

#	ARTICLE	IF	CITATIONS
1	Cascades and transitions in turbulent flows. <i>Physics Reports</i> , 2018, 767-769, 1-101.	10.3	261
2	Shell-to-shell energy transfer in magnetohydrodynamics. I. Steady state turbulence. <i>Physical Review E</i> , 2005, 72, 046301.	0.8	190
3	Scale interactions and scaling laws in rotating flows at moderate Rossby numbers and large Reynolds numbers. <i>Physics of Fluids</i> , 2009, 21, .	1.6	137
4	Shell-to-shell energy transfer in magnetohydrodynamics. II. Kinematic dynamo. <i>Physical Review E</i> , 2005, 72, 046302.	0.8	105
5	Imprint of Large-Scale Flows on Turbulence. <i>Physical Review Letters</i> , 2005, 95, 264503.	2.9	97
6	Large-scale flow effects, energy transfer, and self-similarity on turbulence. <i>Physical Review E</i> , 2006, 74, 016303.	0.8	88
7	Turbulent cascades, transfer, and scale interactions in magnetohydrodynamics. <i>New Journal of Physics</i> , 2007, 9, 298-298.	1.2	84
8	Statistical Equilibria of Large Scales in Dissipative Hydrodynamic Turbulence. <i>Physical Review Letters</i> , 2015, 115, 204501.	2.9	77
9	On the Inverse Cascade of Magnetic Helicity. <i>Astrophysical Journal</i> , 2006, 640, 335-343.	1.6	76
10	Energy transfer in Hall-MHD turbulence: cascades, backscatter, and dynamo action. <i>Journal of Plasma Physics</i> , 2007, 73, 377-401.	0.7	74
11	Critical transitions in thin layer turbulence. <i>Journal of Fluid Mechanics</i> , 2017, 822, 364-385.	1.4	66
12	Nonlocal interactions in hydrodynamic turbulence at high Reynolds numbers: The slow emergence of scaling laws. <i>Physical Review E</i> , 2008, 77, 036306.	0.8	63
13	Helically decomposed turbulence. <i>Journal of Fluid Mechanics</i> , 2017, 812, 752-770.	1.4	57
14	On Heavy Element Enrichment in Classical Novae. <i>Astrophysical Journal</i> , 2004, 602, 931-937.	1.6	56
15	Two-dimensional behavior of three-dimensional magnetohydrodynamic flow with a strong guiding field. <i>Physical Review E</i> , 2011, 84, 056330.	0.8	54
16	On the C/O Enrichment of Nova Ejecta. <i>Astrophysical Journal</i> , 2002, 562, L177-L179.	1.6	52
17	Dynamic anisotropy in MHD turbulence induced by mean magnetic field. <i>Physics of Plasmas</i> , 2017, 24, 022304.	0.7	50
18	On Holmboe's instability for smooth shear and density profiles. <i>Physics of Fluids</i> , 2005, 17, 084103.	1.6	46

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19	Searching for the fastest dynamo: Laminar ABC flows. <i>Physical Review E</i> , 2011, 84, 026321.	0.8	41
20	Anisotropic fluxes and nonlocal interactions in magnetohydrodynamic turbulence. <i>Physical Review E</i> , 2007, 76, 056313.	0.8	39
21	Rotating Taylorâ€Green flow. <i>Journal of Fluid Mechanics</i> , 2015, 769, 46-78.	1.4	38
22	Discontinuous Transition from Direct to Inverse Cascade in Three-Dimensional Turbulence. <i>Physical Review Letters</i> , 2017, 118, 164501.	2.9	38
23	Condensates in rotating turbulent flows. <i>Journal of Fluid Mechanics</i> , 2018, 841, 434-462.	1.4	38
24	Transition from Wave Turbulence to Dynamical Crumpling in Vibrated Elastic Plates. <i>Physical Review Letters</i> , 2013, 111, 054302.	2.9	34
25	Energy and enstrophy dissipation in steady state 2d turbulence. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 359, 652-657.	0.9	33
26	Role of dissipation in flexural wave turbulence: From experimental spectrum to Kolmogorov-Zakharov spectrum. <i>Physical Review E</i> , 2014, 89, 062925.	0.8	30
27	On the edge of an inverse cascade. <i>Physical Review E</i> , 2014, 90, 051003.	0.8	29
28	Structures and dynamics of small scales in decaying magnetohydrodynamic turbulence. <i>Physics of Fluids</i> , 2013, 25, .	1.6	28
29	Stratified shear flow instabilities at large Richardson numbers. <i>Physics of Fluids</i> , 2009, 21, .	1.6	26
30	Condensates in thin-layer turbulence. <i>Journal of Fluid Mechanics</i> , 2019, 864, 490-518.	1.4	26
31	Shear instability of fluid interfaces: Stability analysis. <i>Physical Review E</i> , 2002, 65, 026313.	0.8	22
32	Critical behavior in the inverse to forward energy transition in two-dimensional magnetohydrodynamic flow. <i>Physical Review E</i> , 2016, 93, 013104.	0.8	21
33	Critical transition in fast-rotating turbulence within highly elongated domains. <i>Journal of Fluid Mechanics</i> , 2020, 899, .	1.4	21
34	Large-Scale Magnetic Fields in Magnetohydrodynamic Turbulence. <i>Physical Review Letters</i> , 2013, 110, 084502.	2.9	20
35	Marginally unstable Holmboe modes. <i>Physics of Fluids</i> , 2007, 19, 054105.	1.6	19
36	On the thermal equilibrium state of large-scale flows. <i>Journal of Fluid Mechanics</i> , 2019, 872, 594-625.	1.4	19

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37	On the nonlinear evolution of wind-driven gravity waves. <i>Physics of Fluids</i> , 2004, 16, 3256-3268.	1.6	18
38	Nonlocal Phenomenology for Anisotropic Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2007, 667, L93-L96.	1.6	18
39	Effect of the Lorentz force on on-off dynamo intermittency. <i>Physical Review E</i> , 2008, 77, 056308.	0.8	17
40	THE SIGNATURE OF INITIAL CONDITIONS ON MAGNETOHYDRODYNAMIC TURBULENCE. <i>Astrophysical Journal Letters</i> , 2014, 788, L36.	3.0	16
41	Turbulent cascade, bottleneck, and thermalized spectrum in hyperviscous flows. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	15
42	Self-organisation and non-linear dynamics in driven magnetohydrodynamic turbulent flows. <i>Physics of Fluids</i> , 2015, 27, .	1.6	14
43	Bounds on dissipation in magnetohydrodynamic Couette and Hartmann shear flows. <i>Physics of Plasmas</i> , 2003, 10, 4324-4334.	0.7	13
44	Rare transitions to thin-layer turbulent condensates. <i>Journal of Fluid Mechanics</i> , 2019, 878, 356-369.	1.4	12
45	Phase transitions and flux-loop metastable states in rotating turbulence. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	12
46	Energy fluxes in quasi-equilibrium flows. <i>Journal of Fluid Mechanics</i> , 2020, 884, .	1.4	11
47	Abrupt Transition between Three-Dimensional and Two-Dimensional Quantum Turbulence. <i>Physical Review Letters</i> , 2020, 124, 134501.	2.9	11
48	Effect of helicity on the correlation time of large scales in turbulent flows. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	11
49	Anomalous Exponents at the Onset of an Instability. <i>Physical Review Letters</i> , 2012, 108, 014501.	2.9	10
50	Fate of Alpha Dynamos at Large R . <i>Physical Review Letters</i> , 2016, 117, 205101.	2.9	10
51	Fluctuations of Electrical Conductivity: A New Source for Astrophysical Magnetic Fields. <i>Physical Review Letters</i> , 2016, 116, 161102.	2.9	10
52	Symmetry breaking of decaying magnetohydrodynamic Taylor-Green flows and consequences for universality. <i>Physical Review E</i> , 2013, 88, 063017.	0.8	9
53	Optimal Length Scale for a Turbulent Dynamo. <i>Physical Review Letters</i> , 2016, 116, 074501.	2.9	9
54	Local energy flux of turbulent flows. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	9

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55	Bounds on dissipation in magnetohydrodynamic problems in plane shear geometry. <i>Physics of Plasmas</i> , 2003, 10, 4314-4323.	0.7	8
56	Linear and non-linear features of the Taylor-Green dynamo. <i>Comptes Rendus Physique</i> , 2008, 9, 749-756.	0.3	8
57	Transition to Turbulent Dynamo Saturation. <i>Physical Review Letters</i> , 2017, 119, 204503.	2.9	8
58	Method to measure efficiently rare fluctuations of turbulence intensity for turbulent-laminar transitions in pipe flows. <i>Physical Review E</i> , 2018, 97, 022207.	0.8	8
59	Role of the forcing dimensionality in thin-layer turbulent energy cascades. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	8
60	Weakly nonlinear analysis of wind-driven gravity waves. <i>Journal of Fluid Mechanics</i> , 2004, 503, 171-200.	1.4	7
61	Origins of the k^{-2} spectrum in decaying Taylor-Green magnetohydrodynamic turbulent flows. <i>Physical Review E</i> , 2013, 88, 053014.	0.8	7
62	Do extreme events trigger turbulence decay? A numerical study of turbulence decay time in pipe flows. <i>Journal of Fluid Mechanics</i> , 2021, 912, .	1.4	7
63	The onset of turbulent rotating dynamos at the low magnetic Prandtl number limit. <i>Journal of Fluid Mechanics</i> , 2017, 822, .	1.4	7
64	Bistability of the large-scale dynamics in quasi-two-dimensional turbulence. <i>Journal of Fluid Mechanics</i> , 2022, 939, .	1.4	7
65	Critical Exponents in Zero Dimensions. <i>Journal of Statistical Physics</i> , 2012, 149, 738-753.	0.5	6
66	Kazantsev model in non-helical 2.5-dimensional flows. <i>Journal of Fluid Mechanics</i> , 2016, 806, 627-648.	1.4	6
67	On-off intermittency. <i>Physical Review E</i> , 2021, 103, 052115.	0.8	6
68	Large-scale instabilities of helical flows. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	6
69	Three-dimensional instabilities and negative eddy viscosity in thin-layer flows. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	6
70	Energy cascades in rapidly rotating and stratified turbulence within elongated domains. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	1.4	6
71	Bounding the scalar dissipation scale for mixing flows in the presence of sources. <i>Journal of Fluid Mechanics</i> , 2011, 688, 443-460.	1.4	5
72	Nonlinear dynamos at infinite magnetic Prandtl number. <i>Physical Review E</i> , 2011, 83, 036301.	0.8	5

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73	Turbulent 2.5-dimensional dynamos. <i>Journal of Fluid Mechanics</i> , 2016, 799, 246-264.	1.4	5
74	Symmetry breaking in a turbulent environment. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	5
75	Geometric microcanonical theory of two-dimensional truncated Euler flows. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210049.	1.6	5
76	Intermittency of three-dimensional perturbations in a point-vortex model. <i>Physical Review E</i> , 2021, 103, 053102.	0.8	4
77	Mixing by Non-linear Gravity Wave Breaking on a White Dwarf Surface. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	3
78	Planar bifurcation subject to multiplicative noise: Role of symmetry. <i>Physical Review E</i> , 2009, 80, 041134.	0.8	3
79	Effect of fluctuations on mean-field dynamos. <i>Journal of Plasma Physics</i> , 2018, 84, .	0.7	2
80	Dynamics of the Small Scales in Magnetohydrodynamic Turbulence. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2008, , 305-312.	0.1	1
81	Scale Interactions and Non-Local Flux in Hydrodynamic Turbulence. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2008, , 125-130.	0.1	1
82	$\hat{\nu}$ -Navier-Stokes turbulence. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210243.	1.6	1
83	Onset of Convection on a Pre-Runaway White Dwarf. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	0
84	Mixing at the surface of white dwarf stars. <i>The Fluid Mechanics of Astrophysics and Geophysics</i> , 2005, , .	0.2	0