

Wouter J T Bos

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

910
citations

471061

17
h-index

552369

26
g-index

86
all docs

86
docs citations

86
times ranked

552
citing authors

#	ARTICLE	IF	CITATIONS
1	The dynamo properties of the reversed field pinch velocity field. <i>Physics of Plasmas</i> , 2022, 29, 032306.	0.7	0
2	Modeling the role of clusters and diffusion in the evolution of COVID-19 infections during lock-down. <i>Computational Mechanics</i> , 2021, 67, 1485-1496.	2.2	2
3	Three-dimensional turbulence without vortex stretching. <i>Journal of Fluid Mechanics</i> , 2021, 915, .	1.4	10
4	Transition from axisymmetric to three-dimensional turbulence. <i>Journal of Turbulence</i> , 2021, 22, 481-496.	0.5	0
5	Spontaneous generation and reversal of helicity in anisotropic turbulence. <i>Physical Review E</i> , 2021, 103, L061101.	0.8	5
6	Statistical mechanics of the Euler equations without vortex stretching. <i>Journal of Fluid Mechanics</i> , 2021, 929, .	1.4	3
7	Effect of shaping on turbulent dynamics in reversed-field pinch simulations. <i>Journal of Plasma Physics</i> , 2021, 87, .	0.7	0
8	Generation of Atmospheric Turbulence with Unprecedentedly Large Reynolds Number in a Wind Tunnel. <i>Physical Review Letters</i> , 2020, 125, 154503.	2.9	13
9	Linearly forced isotropic turbulence at low Reynolds numbers. <i>Physical Review E</i> , 2020, 102, 033105.	0.8	3
10	Staircase scaling of short-time energy transfer in turbulence. <i>Journal of Turbulence</i> , 2020, 21, 234-242.	0.5	7
11	Efficiency of laminar and turbulent mixing in wall-bounded flows. <i>Physical Review E</i> , 2020, 101, 043104.	0.8	2
12	Scaling laws in axisymmetric magnetohydrodynamic duct flows. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	5
13	Transition from non-swirling to swirling axisymmetric turbulence. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	5
14	Production and dissipation of kinetic energy in grid turbulence. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	11
15	Passive scalar mixing in modulated turbulence. <i>Fluid Dynamics Research</i> , 2019, 51, 045501.	0.6	3
16	Power fluctuations in turbulence. <i>Physical Review Letters</i> , 2019, 122, 124504.	2.9	8
17	Assessing the nonequilibrium of decaying turbulence with reversed initial fields. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	14
18	On the role and value of $\langle \hat{v}^2 \rangle$ in incompressible MHD simulations. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	4

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19	Cascades of energy and helicity in axisymmetric turbulence. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	12
20	Mixing in modulated turbulence. Analytical results. <i>Computers and Fluids</i> , 2017, 151, 102-107.	1.3	3
21	Dissipation in unsteady turbulence. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	37
22	Reynolds and Prandtl number scaling of viscous heating in isotropic turbulence. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	1
23	Direct numerical simulation of axisymmetric turbulence. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	10
24	Directional change of fluid particles in two-dimensional turbulence and of football players. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	5
25	Structure of sheared and rotating turbulence: Multiscale statistics of Lagrangian and Eulerian accelerations and passive scalar dynamics. <i>Physical Review E</i> , 2016, 93, 013113.	0.8	4
26	On the scaling of temperature fluctuations induced by frictional heating. <i>Physics of Fluids</i> , 2015, 27, 095105.	1.6	4
27	Short-time evolution of Lagrangian velocity gradient correlations in isotropic turbulence. <i>Physics of Fluids</i> , 2015, 27, .	1.6	16
28	Dynamic equilibria and magnetohydrodynamic instabilities in toroidal plasmas with non-uniform transport coefficients. <i>Physics of Plasmas</i> , 2015, 22, 052503.	0.7	3
29	Flow dynamics and magnetic induction in the von-Kármán plasma experiment. <i>Journal of Plasma Physics</i> , 2015, 81, .	0.7	13
30	Dependence of turbulent advection on the Lagrangian correlation time. <i>Physical Review E</i> , 2015, 91, 043020.	0.8	0
31	Angular Statistics of Lagrangian Trajectories in Turbulence. <i>Physical Review Letters</i> , 2015, 114, 214502.	2.9	13
32	Magnetohydrodynamically generated velocities in confined plasma. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	3
33	Depletion of nonlinearity in two-dimensional turbulence. <i>Physics of Fluids</i> , 2014, 26, 115102.	1.6	6
34	Self-organization of helically forced MHD flow in confined cylindrical geometries. <i>Fluid Dynamics Research</i> , 2014, 46, 061422.	0.6	2
35	The effect of toroidicity on reversed field pinch dynamics. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 095024.	0.9	7
36	Simulation of confined magnetohydrodynamic flows with Dirichlet boundary conditions using a pseudo-spectral method with volume penalization. <i>Journal of Computational Physics</i> , 2014, 274, 64-94.	1.9	20

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37	On the anisotropy of the turbulent passive scalar in the presence of a mean scalar gradient. Journal of Fluid Mechanics, 2014, 744, 38-64.	1.4	14
38	The temperature spectrum generated by frictional heating in isotropic turbulence. Journal of Fluid Mechanics, 2014, 746, 85-98.	1.4	4
39	Depression of Nonlinearity and Advection in Isotropic Turbulence. Springer Proceedings in Physics, 2014, , 33-36.	0.1	0
40	On the strength of the nonlinearity in isotropic turbulence. Journal of Fluid Mechanics, 2013, 733, 158-170.	1.4	18
41	Zonal flow generation and its feedback on turbulence production in drift wave turbulence. Physics of Plasmas, 2013, 20, .	0.7	21
42	Lagrangian Markovianized field approximation for turbulence. Journal of Turbulence, 2013, 14, 99-120.	0.5	14
43	Reduction of mean-square advection in turbulent passive scalar mixing. Physics of Fluids, 2012, 24, .	1.6	23
44	Intrinsic Rotation of Toroidally Confined Magnetohydrodynamics. Physical Review Letters, 2012, 109, 175002.	2.9	13
45	Reynolds number effect on the velocity increment skewness in isotropic turbulence. Physics of Fluids, 2012, 24, .	1.6	50
46	On helical multiscale characterization of homogeneous turbulence. Journal of Turbulence, 2012, 13, N35.	0.5	3
47	Developing homogeneous isotropic turbulence. Physica D: Nonlinear Phenomena, 2012, 241, 232-236.	1.3	7
48	Depletion of advection in turbulent scalar mixing. Journal of Physics: Conference Series, 2011, 318, 052037.	0.3	0
49	Influence of flow topology on Lagrangian statistics in two-dimensional turbulence. Journal of Physics: Conference Series, 2011, 318, 052032.	0.3	0
50	Quasi-static magnetohydrodynamic turbulence at high Reynolds number. Journal of Physics: Conference Series, 2011, 318, 072026.	0.3	2
51	Quasi-static magnetohydrodynamic turbulence at high Reynolds number. Journal of Fluid Mechanics, 2011, 681, 434-461.	1.4	38
52	Helical Properties of Sheared and Rotating Turbulence. Journal of Physics: Conference Series, 2011, 318, 082025.	0.3	0
53	A pseudo-spectral method with volume penalisation for magnetohydrodynamic turbulence in confined domains. Computer Physics Communications, 2011, 182, 2-7.	3.0	14
54	Coherent vorticity extraction in resistive drift-wave turbulence: Comparison of orthogonal wavelets versus proper orthogonal decomposition. Comptes Rendus Physique, 2011, 12, 123-131.	0.3	10

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55	The influence of walls on Lagrangian statistics in two-dimensional turbulence. <i>Physics of Fluids</i> , 2011, 23, 085111.	1.6	1
56	Lagrangian statistics and flow topology in forced two-dimensional turbulence. <i>Physical Review E</i> , 2011, 83, 036314.	0.8	21
57	Influence of initial mean helicity on homogeneous turbulent shear flow. <i>Physical Review E</i> , 2011, 84, 056319.	0.8	4
58	Time-reversibility of Navier-Stokes turbulence and its implication for subgrid-scale models. <i>ERCOFTAC Series</i> , 2011, , 39-44.	0.1	1
59	Corrections to the scaling of the second-order structure function in isotropic turbulence. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2010, 26, 151-157.	1.5	12
60	Origin of Lagrangian Intermittency in Drift-Wave Turbulence. <i>Physical Review Letters</i> , 2010, 105, 145001.	2.9	11
61	On the structure and dynamics of sheared and rotating turbulence: Anisotropy properties and geometrical scale-dependent statistics. <i>Physics of Fluids</i> , 2010, 22, .	1.6	14
62	Self-organization and symmetry-breaking in two-dimensional plasma turbulence. <i>Physics of Plasmas</i> , 2010, 17, 092302.	0.7	7
63	Inertial range scaling of the scalar flux spectrum in two-dimensional turbulence. <i>Physics of Fluids</i> , 2009, 21, 115105.	1.6	12
64	On the unsteady behavior of turbulence models. <i>Physics of Fluids</i> , 2009, 21, 041701.	1.6	5
65	Large-scale bottleneck effect in two-dimensional turbulence. <i>Journal of Turbulence</i> , 2009, 10, N30.	0.5	10
66	Lagrangian statistics of two-dimensional turbulence in a square container. <i>Springer Proceedings in Physics</i> , 2009, , 35-38.	0.1	0
67	Lagrangian intermittency and time-correlations in two-dimensional turbulence. <i>Springer Proceedings in Physics</i> , 2009, , 737-740.	0.1	0
68	Spin-up in MHD turbulence. <i>Springer Proceedings in Physics</i> , 2009, , 821-824.	0.1	0
69	The role of coherent vorticity in turbulent transport in resistive drift-wave turbulence. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	16
70	The decay of magnetohydrodynamic turbulence in a confined domain. <i>Physics of Plasmas</i> , 2008, 15, 092304.	0.7	11
71	Rapid Generation of Angular Momentum in Bounded Magnetized Plasma. <i>Physical Review Letters</i> , 2008, 101, 235003.	2.9	18
72	Extreme Lagrangian Acceleration in Confined Turbulent Flow. <i>Physical Review Letters</i> , 2008, 100, 184503.	2.9	20

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73	Inertial range scaling of scalar flux spectra in uniformly sheared turbulence. Physics of Fluids, 2007, 19, 025104.	1.6	22
74	Spectral imbalance and the normalized dissipation rate of turbulence. Physics of Fluids, 2007, 19, 045101.	1.6	71
75	Small scale response and modeling of periodically forced turbulence. Physics of Fluids, 2007, 19, 055107.	1.6	17
76	Small-scale intermittency in anisotropic turbulence. Physical Review E, 2007, 76, 046310.	0.8	28
77	The effect of a finite cascade time on the normalized energy dissipation. , 2007, , 23-25.		0
78	A single-time two-point closure based on fluid particle displacements. Physics of Fluids, 2006, 18, 031706.	1.6	18
79	Dynamics of spectrally truncated inviscid turbulence. Physics of Fluids, 2006, 18, 071701.	1.6	39
80	Reynolds number dependency of the scalar flux spectrum in isotropic turbulence with a uniform scalar gradient. Physics of Fluids, 2005, 17, 125108.	1.6	33
81	On the behavior of the velocity-scalar cross correlation spectrum in the inertial range. Physics of Fluids, 2004, 16, 3818-3823.	1.6	34