

Tie Wei

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1079890/publications.pdf>

Version: 2024-02-01

47
papers

1,465
citations

471061

17
h-index

315357

38
g-index

47
all docs

47
docs citations

47
times ranked

775
citing authors

#	ARTICLE	IF	CITATIONS
1	Reynolds-number effects on the structure of a turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 1989, 204, 57.	1.4	411
2	Properties of the mean momentum balance in turbulent boundary layer, pipe and channel flows. <i>Journal of Fluid Mechanics</i> , 2005, 522, 303-327.	1.4	199
3	Modifying turbulent structure with drag-reducing polymer additives in turbulent channel flows. <i>Journal of Fluid Mechanics</i> , 1992, 245, 619.	1.4	112
4	Comment on the Clauser chart method for determining the friction velocity. <i>Experiments in Fluids</i> , 2005, 38, 695-699.	1.1	78
5	A physical model of the turbulent boundary layer consonant with mean momentum balance structure. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 823-840.	1.6	60
6	Stress gradient balance layers and scale hierarchies in wall-bounded turbulent flows. <i>Journal of Fluid Mechanics</i> , 2005, 532, 165-189.	1.4	54
7	Multiscale modeling in the presence of indeterminacy: Wall-induced turbulence. <i>Multiscale Modeling and Simulation</i> , 2005, 4, 936-959.	0.6	49
8	Examination of v -velocity fluctuations in a turbulent channel flow in the context of sediment transport. <i>Journal of Fluid Mechanics</i> , 1991, 223, 241.	1.4	43
9	Turbulent mixed-boundary flow in a corner formed by a solid wall and a free surface. <i>Journal of Fluid Mechanics</i> , 1995, 294, 17-46.	1.4	43
10	Scaling heat transfer in fully developed turbulent channel flow. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 5284-5296.	2.5	34
11	Outer scales and parameters of adverse-pressure-gradient turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2018, 844, 5-35.	1.4	32
12	Görtler vortex formation at the inner cylinder in Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , 1992, 245, 47.	1.4	31
13	Integral properties of turbulent-kinetic-energy production and dissipation in turbulent wall-bounded flows. <i>Journal of Fluid Mechanics</i> , 2018, 854, 449-473.	1.4	25
14	Scaling properties of the mean wall-normal velocity in zero-pressure-gradient boundary layers. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	24
15	Computational Studies of Two-Dimensional Rayleigh-Taylor Driven Mixing for a Tilted-Rig. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2014, 136, .	0.8	23
16	Vorticity transport in a corner formed by a solid wall and a free surface. <i>Journal of Fluid Mechanics</i> , 2002, 465, 331-352.	1.4	21
17	Mesoscaling of Reynolds Shear Stress in Turbulent Channel and Pipe Flows. <i>AIAA Journal</i> , 2005, 43, 2350-2353.	1.5	21
18	Turbulent transport in the core of a trailing half-delta-wing vortex. <i>Journal of Fluid Mechanics</i> , 1999, 387, 151-175.	1.4	15

#	ARTICLE	IF	CITATIONS
19	Heat transfer regimes in fully developed plane-channel flows. <i>International Journal of Heat and Mass Transfer</i> , 2019, 131, 140-149.	2.5	14
20	Small-scale structure in colliding off-axis vortex rings. <i>Journal of Fluid Mechanics</i> , 1994, 259, 281-290.	1.4	13
21	Derivation of Zagarola-Smiths scaling in zero-pressure-gradient turbulent boundary layers. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	13
22	Multiscaling analysis of buoyancy-driven turbulence in a differentially heated vertical channel. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	13
23	Multiscaling analysis of the mean thermal energy balance equation in fully developed turbulent channel flow. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	12
24	Effect of polymer additives on Görtler vortices in Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , 1995, 282, 115-129.	1.4	11
25	Scaling properties of the equation for passive scalar transport in wall-bounded turbulent flows. <i>International Journal of Heat and Mass Transfer</i> , 2014, 70, 779-792.	2.5	11
26	Analyses of buoyancy-driven convection. <i>Advances in Heat Transfer</i> , 2020, , 1-93.	0.4	11
27	Properties of the mean momentum balance in turbulent Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , 2020, 891, .	1.4	11
28	Heat transfer regimes in fully developed circular tube flows, a map of flow regimes. <i>International Communications in Heat and Mass Transfer</i> , 2019, 104, 147-152.	2.9	10
29	Scaling of Reynolds stresses in a differentially heated vertical channel. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	8
30	Scaling of the mean transverse flow and Reynolds shear stress in turbulent plane jet. <i>Physics of Fluids</i> , 2021, 33, 035142.	1.6	7
31	Integral analysis of boundary layer flows with pressure gradient. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	7
32	Scaling of turbulent kinetic energy and dissipation in turbulent wall-bounded flows. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	7
33	Inner, meso, and outer scales in a differentially heated vertical channel. <i>Physics of Fluids</i> , 2020, 32, 035107.	1.6	6
34	A new blast wave scaling. <i>Shock Waves</i> , 2021, 31, 231-238.	1.0	6
35	Mean temperature profile and thermal displacement thickness in turbulent Rayleigh-Bénard convection. <i>International Journal of Heat and Mass Transfer</i> , 2020, 148, 119021.	2.5	4
36	Scaling patch analysis of turbulent planar plume. <i>Physics of Fluids</i> , 2021, 33, 055101.	1.6	4

#	ARTICLE	IF	CITATIONS
37	Scaling patch analysis of planar turbulent wakes. <i>Physics of Fluids</i> , 2022, 34, 065116.	1.6	4
38	Integral properties of temperature variance production in a turbulent channel flow with passive scalar transport. <i>International Journal of Heat and Mass Transfer</i> , 2019, 133, 393-404.	2.5	3
39	Layered structure of turbulent natural convection over a vertical flat plate. <i>International Journal of Heat and Mass Transfer</i> , 2021, 181, 121866.	2.5	3
40	Layered structure of turbulent plane wall jet. <i>International Journal of Heat and Fluid Flow</i> , 2021, 92, 108872.	1.1	3
41	Quad Charts in the Classroom to Reinforce Technical Communication Fundamentals. <i>Journal of Technical Writing and Communication</i> , 2015, 45, 275-284.	1.1	2
42	Properties of the mean pressure in Rayleigh-Bénard convection. <i>Physics of Fluids</i> , 2020, 32, 045109.	1.6	2
43	Scaling of the production of turbulent kinetic energy and temperature variance in a differentially heated vertical channel. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	2
44	Inner and outer scales in turbulent Rayleigh-Bénard convection. <i>Physics of Fluids</i> , 2020, 32, 115115.	1.6	1
45	Scaling of Hugoniot curves for shock-compressed liquids. <i>Journal of Applied Physics</i> , 2020, 128, 235901.	1.1	1
46	Enhancement of heat and mass transfer by herringbone microstructures in a simple shear flow. <i>Physics of Fluids</i> , 0, , .	1.6	1
47	Maximum Wall Stress on a Smooth Flat Plate Under Planar Jet Impingement. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2022, 144, .	0.8	0