Tie Wei

List of Publications by Year
in descending order

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	Maximum Wall Stress on a Smooth Flat Plate Under Planar Jet Impingement. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .	0.8	0
2	Scaling patch analysis of planar turbulent wakes. Physics of Fluids, 2022, 34, 065116.	1.6	4
3	Scaling of the mean transverse flow and Reynolds shear stress in turbulent plane jet. Physics of Fluids, 2021, 33, 035142.	1.6	7
4	A new blast wave scaling. Shock Waves, 2021, 31, 231-238.	1.0	6
5	Scaling patch analysis of turbulent planar plume. Physics of Fluids, 2021, 33, 055101.	1.6	4
6	Layered structure of turbulent natural convection over a vertical flat plate. International Journal of Heat and Mass Transfer, 2021, 181, 121866.	2.5	3
7	Layered structure of turbulent plane wall jet. International Journal of Heat and Fluid Flow, 2021, 92, 108872.	1.1	3
8	Mean temperature profile and thermal displacement thickness in turbulent Rayleighâ€"BÃ©nard convection. International Journal of Heat and Mass Transfer, 2020, 148, 119021.	2.5	4
9	Properties of the mean pressure in Rayleigh-BÃ©nard convection. Physics of Fluids, 2020, 32, 045109.	1.6	2
10	Analyses of buoyancy-driven convection. Advances in Heat Transfer, 2020, , 1-93.	0.4	11
11	Properties of the mean momentum balance in turbulent Taylorâ€"Couette flow. Journal of Fluid Mechanics, 2020, 891, .	1.4	11
12	Inner, meso, and outer scales in a differentially heated vertical channel. Physics of Fluids, 2020, 32, 035107.	1.6	6
13	Inner and outer scales in turbulent Rayleighâ€"BÃ©nard convection. Physics of Fluids, 2020, 32, 115115.	1.6	1
14	Scaling of turbulent kinetic energy and dissipation in turbulent wall-bounded flows. Physical Review Fluids, 2020, 5, .	1.0	7
15	Scaling of Hugoniot curves for shock-compressed liquids. Journal of Applied Physics, 2020, 128, 235901.	1.1	1
16	Integral properties of temperature variance production in a turbulent channel flow with passive scalar transport. International Journal of Heat and Mass Transfer, 2019, 133, 393-404.	2.5	3
17	Heat transfer regimes in fully developed circular tube flows, a map of flow regimes. International Communications in Heat and Mass Transfer, 2019, 104, 147-152.	2.9	10
18	Heat transfer regimes in fully developed plane-channel flows. International Journal of Heat and Mass Transfer, 2019, 131, 140-149.	2.5	14

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19	Scaling of Reynolds stresses in a differentially heated vertical channel. Physical Review Fluids, 2019, 4, .	1.0	8
20	Multiscaling analysis of buoyancy-driven turbulence in a differentially heated vertical channel. Physical Review Fluids, 2019, 4, .	1.0	13
21	Scaling of the production of turbulent kinetic energy and temperature variance in a differentially heated vertical channel. Physical Review Fluids, 2019, 4, .	1.0	2
22	Outer scales and parameters of adverse-pressure-gradient turbulent boundaryÂlayers. Journal of Fluid Mechanics, 2018, 844, 5-35.	1.4	32
23	Integral properties of turbulent-kinetic-energy production and dissipation in turbulent wall-bounded flows. Journal of Fluid Mechanics, 2018, 854, 449-473.	1.4	25
24	Derivation of Zagarola-Smits scaling in zero-pressure-gradient turbulent boundary layers. Physical Review Fluids, 2018, 3, .	1.0	13
25	Multiscaling analysis of the mean thermal energy balance equation in fully developed turbulent channel flow. Physical Review Fluids, 2018, 3, .	1.0	12
26	Integral analysis of boundary layer flows with pressure gradient. Physical Review Fluids, 2017, 2, .	1.0	7
27	Scaling properties of the mean wall-normal velocity in zero-pressure-gradient boundary layers. Physical Review Fluids, 2016, 1, .	1.0	24
28	Quad Charts in the Classroom to Reinforce Technical Communication Fundamentals. Journal of Technical Writing and Communication, 2015, 45, 275-284.	1.1	2
29	Scaling properties of the equation for passive scalar transport in wall-bounded turbulent flows. International Journal of Heat and Mass Transfer, 2014, 70, 779-792.	2.5	11
30	Computational Studies of Two-Dimensional Rayleigh-Taylor Driven Mixing for a Tilted-Rig. Journal of Fluids Engineering, Transactions of the ASME, 2014, 136, .	0.8	23
31	A physical model of the turbulent boundary layer consonant with mean momentum balance structure. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 823-840.	1.6	60
32	Comment on the Clauser chart method for determining the friction velocity. Experiments in Fluids, 2005, 38, 695-699.	1.1	78
33	Scaling heat transfer in fully developed turbulent channel flow. International Journal of Heat and Mass Transfer, 2005, 48, 5284-5296.	2.5	34
34	Mesoscaling of Reynolds Shear Stress in Turbulent Channel and Pipe Flows.. AIAA Journal, 2005, 43, 2350-2353.	1.5	21
35	Multiscaling in the Presence of Indeterminacy: Wall-Induced Turbulence. Multiscale Modeling and Simulation, 2005, 4, 936-959.	0.6	49
36	Stress gradient balance layers and scale hierarchies in wall-bounded turbulent flows. Journal of Fluid Mechanics, 2005, 532, 165-189.	1.4	54

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37	Properties of the mean momentum balance in turbulent boundary layer, pipe and channel flows. Journal of Fluid Mechanics, 2005, 522, 303-327.	1.4	199
38	Vorticity transport in a corner formed by a solid wall and a free surface. Journal of Fluid Mechanics, 2002, 465, 331-352.	1.4	21
39	Turbulent transport in the core of a trailing half-delta-wing vortex. Journal of Fluid Mechanics, 1999, 387, 151-175.	1.4	15
40	Turbulent mixed-boundary flow in a corner formed by a solid wall and a free surface. Journal of Fluid Mechanics, 1995, 294, 17-46.	1.4	43
41	Effect of polymer additives on GÃ¶rtler vortices in Taylorâ€”Couette flow. Journal of Fluid Mechanics, 1995, 282, 115-129.	1.4	11
42	Small-scale structure in colliding off-axis vortex rings. Journal of Fluid Mechanics, 1994, 259, 281-290.	1.4	13
43	GÃ¶rtler vortex formation at the inner cylinder in Taylorâ€“Couette flow. Journal of Fluid Mechanics, 1992, 245, 47.	1.4	31
44	Modifying turbulent structure with drag-reducing polymer additives in turbulent channel flows. Journal of Fluid Mechanics, 1992, 245, 619.	1.4	112
45	Examination of v -velocity fluctuations in a turbulent channel flow in the context of sediment transport. Journal of Fluid Mechanics, 1991, 223, 241.	1.4	43
46	Reynolds-number effects on the structure of a turbulent channel flow. Journal of Fluid Mechanics, 1989, 204, 57.	1.4	411
47	Enhancement of heat and mass transfer by herringbone microstructures in a simple shear flow. Physics of Fluids, 0, , .	1.6	1