J P Monty

List of Publications by Year in descending order

95 papers	4,536 citations	109137 35 h-index	102304 66 g-index
95 all docs	95 docs citations	95 times ranked	2481 citing authors

#	Article	IF	Citations
1	On the logarithmic region in wall turbulence. Journal of Fluid Mechanics, 2013, 716, .	1.4	486
2	A comparison of turbulent pipe, channel and boundary layer flows. Journal of Fluid Mechanics, 2009, 632, 431-442.	1.4	287
3	Large-scale features in turbulent pipe and channel flows. Journal of Fluid Mechanics, 2007, 589, 147-156.	1.4	283
4	Attached Eddy Model of Wall Turbulence. Annual Review of Fluid Mechanics, 2019, 51, 49-74.	10.8	237
5	Spring constant calibration of atomic force microscope cantilevers of arbitrary shape. Review of Scientific Instruments, 2012, 83, 103705.	0.6	228
6	Towards Reconciling the Large-Scale Structure of Turbulent Boundary Layers in the Atmosphere and Laboratory. Boundary-Layer Meteorology, 2012, 145, 273-306.	1.2	212
7	Pressure gradient effects on the large-scale structure of turbulent boundary layers. Journal of Fluid Mechanics, 2013, 715, 477-498.	1.4	155
8	Amplitude and frequency modulation in wall turbulence. Journal of Fluid Mechanics, 2012, 712, 61-91.	1.4	154
9	Three-dimensional conditional structure of a high-Reynolds-number turbulent boundary layer. Journal of Fluid Mechanics, 2011, 673, 255-285.	1.4	143
10	A parametric study of adverse pressure gradient turbulent boundary layers. International Journal of Heat and Fluid Flow, 2011, 32, 575-585.	1.1	133
11	Large-scale spanwise periodicity in a turbulent boundary layer induced by highly ordered and directional surface roughness. International Journal of Heat and Fluid Flow, 2013, 41, 90-102.	1.1	112
12	Comparison of large-scale amplitude modulation in turbulent boundary layers, pipes, and channel flows. Physics of Fluids, 2009, 21, .	1.6	97
13	Spatial resolution correction for wall-bounded turbulence measurements. Journal of Fluid Mechanics, 2011, 676, 41-53.	1.4	95
14	Linear and non-linear forced response of a conical, ducted, laminar premixed flame. Combustion and Flame, 2009, 156, 2201-2212.	2.8	83
15	Cross-stream stereoscopic particle image velocimetry of a modified turbulent boundary layer over directional surfaceÂpattern. Journal of Fluid Mechanics, 2017, 813, 412-435.	1.4	79
16	Estimating large-scale structures in wall turbulence using linear models. Journal of Fluid Mechanics, 2018, 842, 146-162.	1.4	76
17	Obtaining accurate mean velocity measurements in high Reynolds number turbulent boundary layers using Pitot tubes. Journal of Fluid Mechanics, 2013, 715, 642-670.	1.4	71
18	Reynolds number effects in DNS of pipe flow and comparison with channels and boundary layers. International Journal of Heat and Fluid Flow, 2014, 45, 33-40.	1.1	68

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19	An assessment of the ship drag penalty arising from light calcareous tubeworm fouling. Biofouling, 2016, 32, 451-464.	0.8	65
20	Distance-from-the-wall scaling of turbulent motions in wall-bounded flows. Physics of Fluids, 2017, 29, .	1.6	63
21	Similarity and structure of wall turbulence with lateral wall shear stress variations. Journal of Fluid Mechanics, 2018, 847, 591-613.	1.4	56
22	Structure Inclination Angles in the Convective Atmospheric Surface Layer. Boundary-Layer Meteorology, 2013, 147, 41-50.	1.2	55
23	Turbulent channel flow: comparison of streamwise velocity data from experiments and direct numerical simulation. Journal of Fluid Mechanics, 2009, 633, 461-474.	1.4	53
24	Sea ice floes dissipate the energy of steep ocean waves. Geophysical Research Letters, 2015, 42, 8547-8554.	1.5	53
25	Comparison of turbulent channel and pipe flows with varying Reynolds number. Experiments in Fluids, 2011, 51, 1261-1281.	1.1	51
26	The quiescent core of turbulent channel flow. Journal of Fluid Mechanics, 2014, 751, 228-254.	1.4	50
27	Direct numerical simulation of the incompressible temporally developing turbulentÂboundary layer. Journal of Fluid Mechanics, 2016, 796, 437-472.	1.4	47
28	A direct measure of the frequency response of hot-wire anemometers: temporal resolution issues in wall-bounded turbulence. Experiments in Fluids, 2015, 56, 1.	1.1	44
29	Two-dimensional energy spectra in high-Reynolds-number turbulent boundary layers. Journal of Fluid Mechanics, 2017, 826, .	1.4	43
30	The meandering behaviour of large-scale structures in turbulent boundary layers. Journal of Fluid Mechanics, 2019, 865, .	1.4	43
31	Turbulent structures in a statistically three-dimensional boundary layer. Journal of Fluid Mechanics, 2019, 859, 543-565.	1.4	40
32	An experimental comparison of velocities underneath focussed breaking waves. Ocean Engineering, 2018, 155, 201-210.	1.9	39
33	Reflection and transmission of regular water waves by a thin, floating plate. Wave Motion, 2017, 70, 209-221.	1.0	37
34	Letter: Hydroelastic interactions between water waves and floating freshwater ice. Physics of Fluids, 2018, 30, .	1.6	37
35	The topology of skin friction and surface vorticity fields in wall-bounded flows. Journal of Turbulence, 2012, 13, N6.	0.5	35
36	An idealised assessment of Townsendâ€™s outer-layer similarity hypothesis for wall turbulence. Journal of Fluid Mechanics, 2014, 742, .	1.4	35

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37	Modelling of linear and non-linear two-body wave energy converters under regular and irregular wave conditions. Renewable Energy, 2020, 147, 487-501.	4.3	30
38	Novel whole cell adhesion assays of three isolates of the fouling diatomAmphora coffeaeformisreveal diverse responses to surfaces of different wettability. Biofouling, 2012, 28, 381-393.	0.8	28
39	Simultaneous skin friction and velocity measurements in high Reynolds number pipe and boundary layer flows. Journal of Fluid Mechanics, 2019, 871, 377-400.	1.4	28
40	On the universality of inertial energy in the log layer of turbulent boundary layer and pipe flows. Experiments in Fluids, 2015, 56, 1.	1.1	27
41	Validating under-resolved turbulence intensities for PIV experiments in canonical wall-bounded turbulence. Experiments in Fluids, 2016, 57, 1.	1.1	27
42	Turbulence modifications in a turbulent boundary layer over a rough wall with spanwise-alternating roughness strips. Physics of Fluids, 2018, 30, .	1.6	27
43	Use of portable air cleaners to reduce aerosol transmission on a hospital coronavirus disease 2019 (COVID-19) ward. Infection Control and Hospital Epidemiology, 2022, 43, 987-992.	1.0	27
44	Streamwise inclination angle of large wall-attached structures in turbulent boundary layers. Journal of Fluid Mechanics, 2019, 877, .	1.4	26
45	On the use of the Reynolds decomposition in the intermittent region of turbulent boundary layers. Journal of Fluid Mechanics, 2016, 794, 5-16.	1.4	24
46	The structure and dynamics of backflow in turbulent channels. Journal of Fluid Mechanics, 2019, 880, .	1.4	23
47	On Large-Scale Friction Control in Turbulent Wall Flow in Low Reynolds Number Channels. Flow, Turbulence and Combustion, 2016, 97, 811-827.	1.4	21
48	Detecting surfaceâ€feeding behavior by rorqual whales in accelerometer data. Marine Mammal Science, 2016, 32, 327-348.	0.9	19
49	Modification of the large-scale features of high Reynolds number wall turbulence by passive surface obtrusions. Experiments in Fluids, 2011, 51, 1755-1763.	1.1	18
50	Pressure fluctuation in high-Reynolds-number turbulent boundary layer: results from experiments and DNS. Journal of Turbulence, 2012, 13, N50.	0.5	18
51	Two-dimensional cross-spectrum of theÂstreamwise velocity in turbulent boundaryÂlayers. Journal of Fluid Mechanics, 2020, 890, .	1.4	18
52	Turbulent pipe flow at Reï„ â‰ˆ 1000 : A comparison of wall-resolved large-eddy simulation, direct numerical simulation and hot-wire experiment. Computers and Fluids, 2015, 122, 26-33.	1.3	17
53	Active and inactive components of the streamwise velocity in wall-bounded turbulence. Journal of Fluid Mechanics, 2021, 914, .	1.4	17
54	Efficacy of single-component MTV to measure turbulent wall-flow velocity derivative profiles at high resolution. Experiments in Fluids, 2017, 58, 1.	1.1	16

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55	Spectral-scaling-based extension to the attached eddy model of wall turbulence. Physical Review Fluids, 2020, 5, .	1.0	16
56	Numerical and experimental investigations of the flowâ€“pressure relation in multiple sequential stenoses coronary artery. International Journal of Cardiovascular Imaging, 2017, 33, 1083-1088.	0.7	15
57	Simulation of a Large-Eddy-Break-up Device (LEBU) in a Moderate Reynolds Number Turbulent Boundary Layer. Flow, Turbulence and Combustion, 2017, 98, 445-460.	1.4	15
58	Estimation of Kinetic Energy Dissipation from Breaking Waves in the Wave Crest Region. Journal of Physical Oceanography, 2017, 47, 1145-1150.	0.7	14
59	A comparative study of the velocity and vorticity structure in pipes and boundary layers at friction Reynolds numbers up to. Journal of Fluid Mechanics, 2019, 869, 182-213.	1.4	14
60	Skin-friction critical points in wall-bounded flows. Journal of Physics: Conference Series, 2014, 506, 012009.	0.3	13
61	Conditionally averaged flow topology about a critical point pair in the skin friction field of pipe flows using direct numerical simulations. Physical Review Fluids, 2018, 3, .	1.0	13
62	Distortion in the thermal noise spectrum and quality factor of nanomechanical devices due to finite frequency resolution with applications to the atomic force microscope. Review of Scientific Instruments, 2011, 82, 095104.	0.6	11
63	Spatial averaging of streamwise and spanwise velocity measurements in wall-bounded turbulence using â˜¨- and Ã—-probes. Measurement Science and Technology, 2013, 24, 115302.	1.4	11
64	Non-type behaviour of roughness when in-plane wavelength approaches the boundary layer thickness. Journal of Fluid Mechanics, 2021, 911, .	1.4	11
65	Advances in three-dimensional coronary imaging and computational fluid dynamics. Coronary Artery Disease, 2015, 26, e43-e54.	0.3	10
66	Spatial averaging effects on the streamwise and wall-normal velocity measurements in a wall-bounded turbulence using a cross-wire probe. Measurement Science and Technology, 2019, 30, 085303.	1.4	10
67	High-fidelity measurements in channel flow with polymer wall injection. Journal of Fluid Mechanics, 2019, 859, 851-886.	1.4	9
68	The effect of cleaning and repainting on the ship drag penalty. Biofouling, 2021, 37, 372-386.	0.8	9
69	Data-driven enhancement of coherent structure-based models for predicting instantaneous wall turbulence. International Journal of Heat and Fluid Flow, 2021, 92, 108879.	1.1	9
70	A direct comparison of pulsatile and non-pulsatile rough-wall turbulent pipe flow. Journal of Fluid Mechanics, 2020, 895, .	1.4	8
71	Response of the temporal turbulent boundary layer to decaying free-stream turbulence. Journal of Fluid Mechanics, 2020, 896, .	1.4	8
72	Characterisation of intra-hourly wind power ramps at the wind farm scale and associated processes. Wind Energy Science, 2021, 6, 131-147.	1.2	8

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73	Short-Term Wind Power Forecasting at the Wind Farm Scale Using Long-Range Doppler LiDAR. Energies, 2021, 14, 2663.	1.6	8
74	Aerosol generation related to respiratory interventions and the effectiveness of a personal ventilation hood. Critical Care and Resuscitation: Journal of the Australasian Academy of Critical Care Medicine, 2020, 22, 212-220.	0.0	8
75	Spatial averaging of velocity measurements in wall-bounded turbulence: single hot-wires. Measurement Science and Technology, 2013, 24, 115301.	1.4	6
76	The coupling between inner and outer scales in a zero pressure boundary layer evaluated using a HÃ¶lder exponent framework. Fluid Dynamics Research, 2016, 48, 021405.	0.6	6
77	Influence of a Large-Eddy-Breakup-Device on the Turbulent Interface of Boundary Layers. Flow, Turbulence and Combustion, 2017, 99, 823-835.	1.4	6
78	On the Interaction between Wind Stress and Waves: Wave Growth and Statistical Properties of Large Waves. Journal of Physical Oceanography, 2020, 50, 383-397.	0.7	6
79	A scheme to correct the influence of calibration misalignment for cross-wire probes in turbulent shear flows. Experiments in Fluids, 2020, 61, 1.	1.1	6
80	Sensitivity of turbulent stresses in boundary layers to cross-wire probe uncertainties in the geometry and calibration procedure. Measurement Science and Technology, 2019, 30, 085301.	1.4	5
81	LiDAR-based detection of wind gusts: An experimental study of gust propagation speed and impact on wind power ramps. Journal of Wind Engineering and Industrial Aerodynamics, 2022, 220, 104864.	1.7	5
82	A prospective clinical evaluation of a patient isolation hood during the COVID-19 pandemic. Australian Critical Care, 2022, 35, 28-33.	0.6	4
83	Roll-modes generated in turbulent boundary layers with passive surface modifications. , 2014, , .		3
84	Wave Attenuation due to Ice Cover: An Experimental Model in a Wave-Ice Flume. , 2017, , .		2
85	Spatial resolution correction for wall-bounded turbulence measurements. Journal of Fluid Mechanics, 0, , 1-13.	1.4	2
86	The Effects of Anisotropic Surface Roughness on Turbulent Boundary-Layer Flow. , 2020, , .		2
87	Aerosol generation related to respiratory interventions and the effectiveness of a personal ventilation hood. Critical Care and Resuscitation: Journal of the Australasian Academy of Critical Care Medicine, 2020, , .	0.0	2
88	A REVIEW OF RECENT INVESTIGATIONS INTO HIGH REYNOLDS NUMBER WALL-TURBULENCE. , 2007, , .		1
89	The Velocity Field Underneath Linear and Nonlinear Breaking Rogue Waves. , 2016, , .		1
90	Experimental and Numerical Models of Wave Reflection and Transmission by an Ice Floe. , 2017, , .		1

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91	Active and inactive motions in wall turbulence. , 2020, , .		1
92	Effects of Pressure Gradient on Higher Order Statistics in Turbulent Boundary Layers. , 2012, , .		1
93	Laboratory Study on the Turbulent Boundary Layers Over Wind-Waves Roughness. , 2018, , .		0
94	Model-based estimation of vortex shedding in unsteady cylinder wakes. Physical Review Fluids, 2020, 5, .	1.0	0
95	Use of portable air cleaners to reduce aerosol transmission on a hospital COVID-19 ward. Infection, Disease and Health, 2021, 26, S4.	0.5	0