

# J P Monty

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87  
papers

3,185  
citations

29  
h-index

55  
g-index

95  
ext. papers

3,893  
ext. citations

3.3  
avg, IF

5.72  
L-index

#	Paper	IF	Citations
87	On the logarithmic region in wall turbulence. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 716,	3.7	365
86	A comparison of turbulent pipe, channel and boundary layer flows. <i>Journal of Fluid Mechanics</i> , <b>2009</b> , 632, 431-442	3.7	229
85	Large-scale features in turbulent pipe and channel flows. <i>Journal of Fluid Mechanics</i> , <b>2007</b> , 589, 147-156	3.7	228
84	Spring constant calibration of atomic force microscope cantilevers of arbitrary shape. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 103705	1.7	167
83	Towards Reconciling the Large-Scale Structure of Turbulent Boundary Layers in the Atmosphere and Laboratory. <i>Boundary-Layer Meteorology</i> , <b>2012</b> , 145, 273-306	3.4	154
82	Attached Eddy Model of Wall Turbulence. <i>Annual Review of Fluid Mechanics</i> , <b>2019</b> , 51, 49-74	2.2	118
81	Three-dimensional conditional structure of a high-Reynolds-number turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 673, 255-285	3.7	115
80	Amplitude and frequency modulation in wall turbulence. <i>Journal of Fluid Mechanics</i> , <b>2012</b> , 712, 61-91	3.7	113
79	Pressure gradient effects on the large-scale structure of turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 715, 477-498	3.7	105
78	A parametric study of adverse pressure gradient turbulent boundary layers. <i>International Journal of Heat and Fluid Flow</i> , <b>2011</b> , 32, 575-585	2.4	90
77	Large-scale spanwise periodicity in a turbulent boundary layer induced by highly ordered and directional surface roughness. <i>International Journal of Heat and Fluid Flow</i> , <b>2013</b> , 41, 90-102	2.4	81
76	Spatial resolution correction for wall-bounded turbulence measurements. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 676, 41-53	3.7	78
75	Comparison of large-scale amplitude modulation in turbulent boundary layers, pipes, and channel flows. <i>Physics of Fluids</i> , <b>2009</b> , 21, 111703	4.4	72
74	Linear and non-linear forced response of a conical, ducted, laminar premixed flame. <i>Combustion and Flame</i> , <b>2009</b> , 156, 2201-2212	5.3	67
73	Estimating large-scale structures in wall turbulence using linear models. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 842, 146-162	3.7	51
72	Reynolds number effects in DNS of pipe flow and comparison with channels and boundary layers. <i>International Journal of Heat and Fluid Flow</i> , <b>2014</b> , 45, 33-40	2.4	51
71	Obtaining accurate mean velocity measurements in high Reynolds number turbulent boundary layers using Pitot tubes. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 715, 642-670	3.7	48

70	Turbulent channel flow: comparison of streamwise velocity data from experiments and direct numerical simulation. <i>Journal of Fluid Mechanics</i> , <b>2009</b> , 633, 461-474	3.7	47
69	Distance-from-the-wall scaling of turbulent motions in wall-bounded flows. <i>Physics of Fluids</i> , <b>2017</b> , 29, 020712	4.4	45
68	Comparison of turbulent channel and pipe flows with varying Reynolds number. <i>Experiments in Fluids</i> , <b>2011</b> , 51, 1261-1281	2.5	44
67	Cross-stream stereoscopic particle image velocimetry of a modified turbulent boundary layer over directional surface pattern. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 813, 412-435	3.7	43
66	The quiescent core of turbulent channel flow. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 751, 228-254	3.7	40
65	An assessment of the ship drag penalty arising from light calcareous tubeworm fouling. <i>Biofouling</i> , <b>2016</b> , 32, 451-64	3.3	36
64	Structure Inclination Angles in the Convective Atmospheric Surface Layer. <i>Boundary-Layer Meteorology</i> , <b>2013</b> , 147, 41-50	3.4	36
63	Sea ice floes dissipate the energy of steep ocean waves. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 8547-8554	4.9	35
62	A direct measure of the frequency response of hot-wire anemometers: temporal resolution issues in wall-bounded turbulence. <i>Experiments in Fluids</i> , <b>2015</b> , 56, 1	2.5	32
61	Direct numerical simulation of the incompressible temporally developing turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 796, 437-472	3.7	30
60	Similarity and structure of wall turbulence with lateral wall shear stress variations. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 847, 591-613	3.7	30
59	Two-dimensional energy spectra in high-Reynolds-number turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 826,	3.7	29
58	An idealised assessment of Townsend's outer-layer similarity hypothesis for wall turbulence. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 742,	3.7	27
57	The topology of skin friction and surface vorticity fields in wall-bounded flows. <i>Journal of Turbulence</i> , <b>2012</b> , 13, N6	2.1	27
56	An experimental comparison of velocities underneath focussed breaking waves. <i>Ocean Engineering</i> , <b>2018</b> , 155, 201-210	3.9	26
55	Reflection and transmission of regular water waves by a thin, floating plate. <i>Wave Motion</i> , <b>2017</b> , 70, 209-221	2.8	26
54	Novel whole cell adhesion assays of three isolates of the fouling diatom <i>Amphora coffeaeformis</i> reveal diverse responses to surfaces of different wettability. <i>Biofouling</i> , <b>2012</b> , 28, 381-93	3.3	26
53	Letter: Hydroelastic interactions between water waves and floating freshwater ice. <i>Physics of Fluids</i> , <b>2018</b> , 30, 091702	4.4	26

52	Turbulent structures in a statistically three-dimensional boundary layer. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 859, 543-565	3.7	23
51	On the universality of inertial energy in the log layer of turbulent boundary layer and pipe flows. <i>Experiments in Fluids</i> , <b>2015</b> , 56, 1	2.5	22
50	Validating under-resolved turbulence intensities for PIV experiments in canonical wall-bounded turbulence. <i>Experiments in Fluids</i> , <b>2016</b> , 57, 1	2.5	21
49	The meandering behaviour of large-scale structures in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 865,	3.7	20
48	Turbulence modifications in a turbulent boundary layer over a rough wall with spanwise-alternating roughness strips. <i>Physics of Fluids</i> , <b>2018</b> , 30, 055105	4.4	19
47	Pressure fluctuation in high-Reynolds-number turbulent boundary layer: results from experiments and DNS. <i>Journal of Turbulence</i> , <b>2012</b> , 13, N50	2.1	17
46	Detecting surface-feeding behavior by rorqual whales in accelerometer data. <i>Marine Mammal Science</i> , <b>2016</b> , 32, 327-348	1.9	16
45	On the use of the Reynolds decomposition in the intermittent region of turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 794, 5-16	3.7	16
44	Modification of the large-scale features of high Reynolds number wall turbulence by passive surface obtrusions. <i>Experiments in Fluids</i> , <b>2011</b> , 51, 1755-1763	2.5	15
43	On Large-Scale Friction Control in Turbulent Wall Flow in Low Reynolds Number Channels. <i>Flow, Turbulence and Combustion</i> , <b>2016</b> , 97, 811-827	2.5	15
42	The structure and dynamics of backflow in turbulent channels. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 880,	3.7	14
41	Modelling of linear and non-linear two-body wave energy converters under regular and irregular wave conditions. <i>Renewable Energy</i> , <b>2020</b> , 147, 487-501	8.1	14
40	Simultaneous skin friction and velocity measurements in high Reynolds number pipe and boundary layer flows. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 871, 377-400	3.7	13
39	Estimation of Kinetic Energy Dissipation from Breaking Waves in the Wave Crest Region. <i>Journal of Physical Oceanography</i> , <b>2017</b> , 47, 1145-1150	2.4	11
38	Skin-friction critical points in wall-bounded flows. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 506, 012000.3	0.3	11
37	Distortion in the thermal noise spectrum and quality factor of nanomechanical devices due to finite frequency resolution with applications to the atomic force microscope. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 095104	1.7	11
36	Streamwise inclination angle of large wall-attached structures in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 877,	3.7	10
35	Turbulent pipe flow at $Re_{\tau} = 1000$ : A comparison of wall-resolved large-eddy simulation, direct numerical simulation and hot-wire experiment. <i>Computers and Fluids</i> , <b>2015</b> , 122, 26-33	2.8	10

34	Simulation of a Large-Eddy-Break-up Device (LEBU) in a Moderate Reynolds Number Turbulent Boundary Layer. <i>Flow, Turbulence and Combustion</i> , <b>2017</b> , 98, 445-460	2.5	10
33	Spatial averaging of streamwise and spanwise velocity measurements in wall-bounded turbulence using $\pi$ - and $\epsilon$ probes. <i>Measurement Science and Technology</i> , <b>2013</b> , 24, 115302	2	10
32	Numerical and experimental investigations of the flow-pressure relation in multiple sequential stenoses coronary artery. <i>International Journal of Cardiovascular Imaging</i> , <b>2017</b> , 33, 1083-1088	2.5	9
31	Two-dimensional cross-spectrum of the streamwise velocity in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 890,	3.7	9
30	A comparative study of the velocity and vorticity structure in pipes and boundary layers at friction Reynolds numbers up to. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 869, 182-213	3.7	8
29	Efficacy of single-component MTV to measure turbulent wall-flow velocity derivative profiles at high resolution. <i>Experiments in Fluids</i> , <b>2017</b> , 58, 1	2.5	8
28	Advances in three-dimensional coronary imaging and computational fluid dynamics: is virtual fractional flow reserve more than just a pretty picture?. <i>Coronary Artery Disease</i> , <b>2015</b> , 26 Suppl 1, e43-54	1.4	8
27	Conditionally averaged flow topology about a critical point pair in the skin friction field of pipe flows using direct numerical simulations. <i>Physical Review Fluids</i> , <b>2018</b> , 3,	2.8	8
26	Use of portable air cleaners to reduce aerosol transmission on a hospital coronavirus disease 2019 (COVID-19) ward. <i>Infection Control and Hospital Epidemiology</i> , <b>2021</b> , 1-6	2	8
25	Spatial averaging effects on the streamwise and wall-normal velocity measurements in a wall-bounded turbulence using a cross-wire probe. <i>Measurement Science and Technology</i> , <b>2019</b> , 30, 085303	3	7
24	The coupling between inner and outer scales in a zero pressure boundary layer evaluated using a Hlder exponent framework. <i>Fluid Dynamics Research</i> , <b>2016</b> , 48, 021405	1.2	6
23	Influence of a Large-Eddy-Breakup-Device on the Turbulent Interface of Boundary Layers. <i>Flow, Turbulence and Combustion</i> , <b>2017</b> , 99, 823-835	2.5	6
22	Spectral-scaling-based extension to the attached eddy model of wall turbulence. <i>Physical Review Fluids</i> , <b>2020</b> , 5,	2.8	6
21	On the Interaction between Wind Stress and Waves: Wave Growth and Statistical Properties of Large Waves. <i>Journal of Physical Oceanography</i> , <b>2020</b> , 50, 383-397	2.4	6
20	Sensitivity of turbulent stresses in boundary layers to cross-wire probe uncertainties in the geometry and calibration procedure. <i>Measurement Science and Technology</i> , <b>2019</b> , 30, 085301	2	5
19	A scheme to correct the influence of calibration misalignment for cross-wire probes in turbulent shear flows. <i>Experiments in Fluids</i> , <b>2020</b> , 61, 1	2.5	5
18	Spatial averaging of velocity measurements in wall-bounded turbulence: single hot-wires. <i>Measurement Science and Technology</i> , <b>2013</b> , 24, 115301	2	5
17	High-fidelity measurements in channel flow with polymer wall injection. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 859, 851-886	3.7	5

16	A direct comparison of pulsatile and non-pulsatile rough-wall turbulent pipe flow. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 895,	3.7	4
15	Active and inactive components of the streamwise velocity in wall-bounded turbulence. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 914,	3.7	4
14	Short-Term Wind Power Forecasting at the Wind Farm Scale Using Long-Range Doppler LiDAR. <i>Energies</i> , <b>2021</b> , 14, 2663	3.1	4
13	Characterisation of intra-hourly wind power ramps at the wind farm scale and associated processes. <i>Wind Energy Science</i> , <b>2021</b> , 6, 131-147	3.2	4
12	Aerosol generation related to respiratory interventions and the effectiveness of a personal ventilation hood. <i>Critical Care and Resuscitation: Journal of the Australasian Academy of Critical Care Medicine</i> , <b>2020</b> , 22, 212-220	2.8	4
11	Roll-modes generated in turbulent boundary layers with passive surface modifications <b>2014</b> ,		3
10	Non-type behaviour of roughness when in-plane wavelength approaches the boundary layer thickness. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 911,	3.7	3
9	Wave Attenuation due to Ice Cover: An Experimental Model in a Wave-Ice Flume <b>2017</b> ,		2
8	Data-driven enhancement of coherent structure-based models for predicting instantaneous wall turbulence. <i>International Journal of Heat and Fluid Flow</i> , <b>2021</b> , 92, 108879	2.4	2
7	Spatial resolution correction for wall-bounded turbulence measurements		2
6	Aerosol generation related to respiratory interventions and the effectiveness of a personal ventilation hood. <i>Critical Care and Resuscitation: Journal of the Australasian Academy of Critical Care Medicine</i> , <b>2020</b> ,	2.8	2
5	Experimental and Numerical Models of Wave Reflection and Transmission by an Ice Floe <b>2017</b> ,		1
4	Response of the temporal turbulent boundary layer to decaying free-stream turbulence. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 896,	3.7	1
3	A prospective clinical evaluation of a patient isolation hood during the COVID-19 pandemic. <i>Australian Critical Care</i> , <b>2021</b> ,	2.9	1
2	LiDAR-based detection of wind gusts: An experimental study of gust propagation speed and impact on wind power ramps. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2022</b> , 220, 104864	3.7	0
1	The effect of cleaning and repainting on the ship drag penalty. <i>Biofouling</i> , <b>2021</b> , 37, 372-386	3.3	0