Ivan Marusic

List of Publications by Year in Descending Order

228 papers	11,889 citations	55 h-index	105 g-index
246 ext. papers	13,952 ext. citations	3.9 avg, IF	6.89 L-index

#	Paper	IF	Citations
228	Investigation of cold-wire spatial and temporal resolution issues in thermal turbulent boundary layers. *International Journal of Heat and Fluid Flow*, **2022**, 94, 108926	2.4	0
227	An extensional strain sensing mechanosome drives adhesion-independent platelet activation at supraphysiological hemodynamic gradients.. *BMC Biology*, **2022**, 20, 73	7.3	0
226	An energy-efficient pathway to turbulent drag reduction. *Nature Communications*, **2021**, 12, 5805	17.4	3
225	Data-driven enhancement of coherent structure-based models for predicting instantaneous wall turbulence. *International Journal of Heat and Fluid Flow*, **2021**, 92, 108879	2.4	2
224	Spanwise velocity statistics in high-Reynolds-number turbulent boundary layers. *Journal of Fluid Mechanics*, **2021**, 913,	3.7	3
223	Active and inactive components of the streamwise velocity in wall-bounded turbulence. *Journal of Fluid Mechanics*, **2021**, 914,	3.7	4
222	Characterising Momentum Flux Events in High Reynolds Number Turbulent Boundary Layers. *Fluids*, **2021**, 6, 168	1.6	4
221	13th International Symposium on Particle Image Velocimetry (ISPIV 2019). *Measurement Science and Technology*, **2021**, 32, 060201	2	
220	Prograde vortices, internal shear layers and the Taylor microscale in high-Reynolds-number turbulent boundary layers. *Journal of Fluid Mechanics*, **2021**, 920,	3.7	2
219	Leonardo da Vinci and Fluid Mechanics. *Annual Review of Fluid Mechanics*, **2021**, 53, 1-25	22	9
218	Are surgical masks manufactured from sterilisation wrap safe?. *Infection, Disease and Health*, **2021**, 26, 104-109	4.6	1
217	Coriolis effect on centrifugal buoyancy-driven convection in a thin cylindrical shell. *Journal of Fluid Mechanics*, **2021**, 910,	3.7	2
216	Energy transfer in turbulent channel flows and implications for resolvent modelling. *Journal of Fluid Mechanics*, **2021**, 911,	3.7	5
215	Experimental study of a turbulent boundary layer with a rough-to-smooth change in surface conditions at high Reynolds numbers. *Journal of Fluid Mechanics*, **2021**, 923,	3.7	2
214	A direct comparison of pulsatile and non-pulsatile rough-wall turbulent pipe flow. *Journal of Fluid Mechanics*, **2020**, 895,	3.7	4
213	A scheme to correct the influence of calibration misalignment for cross-wire probes in turbulent shear flows. *Experiments in Fluids*, **2020**, 61, 1	2.5	5
212	On the mixing length eddies and logarithmic mean velocity profile in wall turbulence. *Journal of Fluid Mechanics*, **2020**, 887,	3.7	8

211	Forcing frequency effects on turbulence dynamics in pulsatile pipe flow. *International Journal of Heat and Fluid Flow*, **2020**, 82, 108538	2.4	3
210	The effect of spanwise wavelength of surface heterogeneity on turbulent secondary flows. *Journal of Fluid Mechanics*, **2020**, 894,	3.7	17
209	Towards an improved spatial representation of a boundary layer from the attached eddy model. *Physical Review Fluids*, **2020**, 5,	2.8	8
208	Spectral-scaling-based extension to the attached eddy model of wall turbulence. *Physical Review Fluids*, **2020**, 5,	2.8	6
207	Large-scale structures predicted by linear models of wall-bounded turbulence. *Journal of Physics: Conference Series*, **2020**, 1522, 012006	0.3	0
206	Pressure power spectrum in high-Reynolds number wall-bounded flows. *International Journal of Heat and Fluid Flow*, **2020**, 84, 108620	2.4	5
205	Two-dimensional cross-spectrum of the streamwise velocity in turbulent boundary layers. *Journal of Fluid Mechanics*, **2020**, 890,	3.7	9
204	Data-driven decomposition of the streamwise turbulence kinetic energy in boundary layers. Part 1. Energy spectra. *Journal of Fluid Mechanics*, **2020**, 882,	3.7	24
203	Data-driven decomposition of the streamwise turbulence kinetic energy in boundary layers. Part 2. Integrated energy and. *Journal of Fluid Mechanics*, **2020**, 882,	3.7	18
202	Near wall coherence in wall-bounded flows and implications for flow control. *International Journal of Heat and Fluid Flow*, **2020**, 86, 108683	2.4	1
201	Experimental fluid dynamics characterization of a novel micropump-mixer. *Biomicrofluidics*, **2020**, 14, 044116	3.2	
200	Periodicity of large-scale coherence in turbulent boundary layers. *International Journal of Heat and Fluid Flow*, **2020**, 83, 108575	2.4	2
199	Streamwise inclination angle of large wall-attached structures in turbulent boundary layers. *Journal of Fluid Mechanics*, **2019**, 877,	3.7	10
198	Drag forces on a bed particle in open-channel flow: effects of pressure spatial fluctuations and very-large-scale motions. *Journal of Fluid Mechanics*, **2019**, 863, 494-512	3.7	17
197	Coherent structures in the linearized impulse response of turbulent channel flow. *Journal of Fluid Mechanics*, **2019**, 863, 1190-1203	3.7	12
196	Friction factor decomposition for rough-wall flows: theoretical background and application to open-channel flows. *Journal of Fluid Mechanics*, **2019**, 872, 626-664	3.7	30
195	Coherent large-scale structures from the linearized Navier–Stokes equations. *Journal of Fluid Mechanics*, **2019**, 873, 89-109	3.7	17
194	Recovery of wall-shear stress to equilibrium flow conditions after a rough-to-smooth step change in turbulent boundary layers. *Journal of Fluid Mechanics*, **2019**, 872, 472-491	3.7	13

193	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	2	7
192	Simultaneous skin friction and velocity measurements in high Reynolds number pipe and boundary layer flows. *Journal of Fluid Mechanics*, **2019**, 871, 377-400	3.7	13
191	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	3.7	8
190	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	2	5
189	Vertical Coherence of Turbulence in the Atmospheric Surface Layer: Connecting the Hypotheses of Townsend and Davenport. *Boundary-Layer Meteorology*, **2019**, 172, 199-214	3.4	11
188	Attached Eddy Model of Wall Turbulence. *Annual Review of Fluid Mechanics*, **2019**, 51, 49-74	22	118
187	Hydraulic resistance in open-channel flows over self-affine rough beds. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2019**, 57, 183-196	1.9	21
186	Active Micropump-Mixer for Rapid Antiplatelet Drug Screening in Whole Blood. *Analytical Chemistry*, **2019**, 91, 10830-10839	7.8	7
185	Velocity probability distribution scaling in wall-bounded flows at high Reynolds numbers. *Physical Review Fluids*, **2019**, 4,	2.8	3
184	Estimating large-scale structures in wall turbulence using linear models. *Journal of Fluid Mechanics*, **2018**, 842, 146-162	3.7	51
183	Towards fully-resolved PIV measurements in high Reynolds number turbulent boundary layers with DSLR cameras. *Journal of Visualization*, **2018**, 21, 369-379	1.6	3
182	Assessment of a miniature four-roll mill and a cross-slot microchannel for high-strain-rate stagnation point flows. *Measurement Science and Technology*, **2018**, 29, 045302	2	6
181	Revisiting end conduction effects in constant temperature hot-wire anemometry. *Experiments in Fluids*, **2018**, 59, 1	2.5	2
180	Fully resolved measurements of turbulent boundary layer flows up to. *Journal of Fluid Mechanics*, **2018**, 851, 391-415	3.7	55
179	Elastomeric microvalve geometry affects haemocompatibility. *Lab on A Chip*, **2018**, 18, 1778-1792	7.2	4
178	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,	2.8	8
177	Hierarchical random additive model for the spanwise and wall-normal velocities in wall-bounded flows at high Reynolds numbers. *Physical Review Fluids*, **2018**, 3,	2.8	10
176	Impact of mismatched and misaligned laser light sheet profiles on PIV performance. *Experiments in Fluids*, **2018**, 59, 1	2.5	5

175	Simultaneous micro-PIV measurements and real-time control trapping in a cross-slot channel. *Experiments in Fluids*, **2018**, 59, 1	2.5	6
174	Trajectory of a synthetic jet issuing into high-Reynolds-number turbulent boundary layers. *Journal of Fluid Mechanics*, **2018**, 856, 531-551	3.7	8
173	Transition to ultimate Rayleigh–Bénard turbulence revealed through extended self-similarity scaling analysis of the temperature structure functions. *Journal of Fluid Mechanics*, **2018**, 851,	3.7	5
172	Large coherence of spanwise velocity in turbulent boundary layers. *Journal of Fluid Mechanics*, **2018**, 847, 161-185	3.7	17
171	Distance-from-the-wall scaling of turbulent motions in wall-bounded flows. *Physics of Fluids*, **2017**, 29, 020712	4.4	45
170	Reynolds number trend of hierarchies and scale interactions in turbulent boundary layers. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2017**, 375,	3	29
169	Fractal scaling of the turbulence interface in gravity currents. *Journal of Fluid Mechanics*, **2017**, 820,	3.7	9
168	Self-similarity of wall-attached turbulence in boundary layers. *Journal of Fluid Mechanics*, **2017**, 823,	3.7	51
167	Measurements from flame chemiluminescence tomography of forced laminar premixed propane flames. *Combustion and Flame*, **2017**, 183, 1-14	5.3	31
166	Interfaces of uniform momentum zones in turbulent boundary layers. *Journal of Fluid Mechanics*, **2017**, 820, 451-478	3.7	32
165	Universality of the energy-containing structures in wall-bounded turbulence. *Journal of Fluid Mechanics*, **2017**, 823, 498-510	3.7	8
164	Skin-friction drag reduction in a high-Reynolds-number turbulent boundary layer via real-time control of large-scale structures. *International Journal of Heat and Fluid Flow*, **2017**, 67, 30-41	2.4	36
163	Global and local aspects of entrainment in temporal plumes. *Journal of Fluid Mechanics*, **2017**, 812, 222-250	3.7	21
162	Applicability of Taylor's hypothesis in rough- and smooth-wall boundary layers. *Journal of Fluid Mechanics*, **2017**, 812, 398-417	3.7	23
161	Revisiting the law of the wake in wall turbulence. *Journal of Fluid Mechanics*, **2017**, 811, 421-435	3.7	22
160	Generalization of the PIV loss-of-correlation formula introduced by Keane and Adrian. *Experiments in Fluids*, **2017**, 58, 1	2.5	13
159	Statistics of turbulence in the energy-containing range of Taylor–Couette compared to canonical wall-bounded flows. *Journal of Fluid Mechanics*, **2017**, 830, 797-819	3.7	10
158	Beam stability and warm-up effects of Nd:YAG lasers used in particle image velocimetry. *Measurement Science and Technology*, **2017**, 28, 065301	2	4

157	Two-dimensional energy spectra in high-Reynolds-number turbulent boundary layers. *Journal of Fluid Mechanics*, **2017**, 826,	3.7	29
156	Turbulence in the Era of Big Data: Recent Experiences with Sharing Large Datasets **2017**, 497-507		2
155	Study of the Streamwise Evolution of Turbulent Boundary Layers to High Reynolds Numbers **2017**, 47-60		1
154	Dissipation scaling in constant-pressure turbulent boundary layers. *Physical Review Fluids*, **2017**, 2,	2.8	16
153	Reynolds number and roughness effects on turbulent stresses in sandpaper roughness boundary layers. *Physical Review Fluids*, **2017**, 2,	2.8	7
152	Structure function tensor scaling in the logarithmic region derived from the attached eddy model of wall-bounded turbulent flows. *Physical Review Fluids*, **2017**, 2,	2.8	16
151	Scaling of the streamwise turbulence intensity in the context of inner-outer interactions in wall turbulence*. *Physical Review Fluids*, **2017**, 2,	2.8	44
150	Modelling and operation of sub-miniature constant temperature hot-wire anemometry. *Measurement Science and Technology*, **2016**, 27, 125301	2	4
149	Comparison of turbulent boundary layers over smooth and rough surfaces up to high Reynolds numbers □ERRATUM. *Journal of Fluid Mechanics*, **2016**, 797, 917-917	3.7	1
148	Reconstruction of Wall Shear-Stress Fluctuations in a Shallow Tidal River. *ERCOFTAC Series*, **2016**, 247-257	0.1	
147	The coupling between inner and outer scales in a zero pressure boundary layer evaluated using a H□lder exponent framework. *Fluid Dynamics Research*, **2016**, 48, 021405	1.2	6
146	Attached Eddies and High-Order Statistics. *ERCOFTAC Series*, **2016**, 47-60	0.1	1
145	Influence of spatial exclusion on the statistical behavior of attached eddies. *Physical Review Fluids*, **2016**, 1,	2.8	16
144	Hierarchical random additive process and logarithmic scaling of generalized high order, two-point correlations in turbulent boundary layer flow. *Physical Review Fluids*, **2016**, 1,	2.8	26
143	Extended self-similarity in moment-generating-functions in wall-bounded turbulence at high Reynolds number. *Physical Review Fluids*, **2016**, 1,	2.8	22
142	Spectral stochastic estimation of high-Reynolds-number wall-bounded turbulence for a refined inner-outer interaction model. *Physical Review Fluids*, **2016**, 1,	2.8	56
141	Smooth- and rough-wall boundary layer structure from high spatial range particle image velocimetry. *Physical Review Fluids*, **2016**, 1,	2.8	11
140	Amplitude modulation of pressure in turbulent boundary layer. *International Journal of Heat and Fluid Flow*, **2016**, 61, 2-11	2.4	10

139	The anisotropic structure of turbulence and its energy spectrum. *Physics of Fluids*, **2016**, 28, 011701	4.4	16
138	Entrainment at multi-scales across the turbulent/non-turbulent interface in an axisymmetric jet. *Journal of Fluid Mechanics*, **2016**, 802, 690-725	3.7	41
137	Uniform momentum zones in turbulent boundary layers. *Journal of Fluid Mechanics*, **2016**, 786, 309-331	3.7	65
136	Self-similarity of the large-scale motions in turbulent pipe flow. *Journal of Fluid Mechanics*, **2016**, 792,	3.7	47
135	Comparison of turbulent boundary layers over smooth and rough surfaces up to high Reynolds numbers. *Journal of Fluid Mechanics*, **2016**, 795, 210-240	3.7	79
134	Moment generating functions and scaling laws in the inertial layer of turbulent wall-bounded flows. *Journal of Fluid Mechanics*, **2016**, 791,	3.7	23
133	Wall-drag measurements of smooth- and rough-wall turbulent boundary layers using a floating element. *Experiments in Fluids*, **2016**, 57, 1	2.5	24
132	Inner–outer interactions in rough-wall turbulence. *Journal of Turbulence*, **2016**, 17, 1159-1178	2.1	22
131	An investigation of channel flow with a smooth air–water interface. *Experiments in Fluids*, **2015**, 56, 1	2.5	1
130	The statistical behaviour of attached eddies. *Physics of Fluids*, **2015**, 27, 015104	4.4	54
129	On the universality of inertial energy in the log layer of turbulent boundary layer and pipe flows. *Experiments in Fluids*, **2015**, 56, 1	2.5	22
128	Wavelet analysis of wall turbulence to study large-scale modulation of small scales. *Experiments in Fluids*, **2015**, 56, 1	2.5	53
127	Scaling of second- and higher-order structure functions in turbulent boundary layers. *Journal of Fluid Mechanics*, **2015**, 769, 654-686	3.7	51
126	Evolution of zero-pressure-gradient boundary layers from different tripping conditions. *Journal of Fluid Mechanics*, **2015**, 783, 379-411	3.7	72
125	An Extended View of the Inner-outer Interaction Model for Wall-bounded Turbulence Using Spectral Linear Stochastic Estimation. *Procedia Engineering*, **2015**, 126, 24-28		4
124	Advances in three-dimensional coronary imaging and computational fluid dynamics: is virtual fractional flow reserve more than just a pretty picture?. *Coronary Artery Disease*, **2015**, 26 Suppl 1, e43-54	1.4	8
123	Temporally optimized spanwise vorticity sensor measurements in turbulent boundary layers. *Experiments in Fluids*, **2015**, 56, 1	2.5	21
122	High spatial range velocity measurements in a high Reynolds number turbulent boundary layer. *Physics of Fluids*, **2014**, 26, 025117	4.4	38

121	The turbulent/non-turbulent interface and entrainment in a boundary layer. *Journal of Fluid Mechanics*, **2014**, 742, 119-151	3.7	107
120	Scaling of the turbulent/non-turbulent interface in boundary layers. *Journal of Fluid Mechanics*, **2014**, 751, 298-328	3.7	27
119	Modeling bed shear-stress fluctuations in a shallow tidal channel. *Journal of Geophysical Research: Oceans*, **2014**, 119, 3185-3199	3.3	10
118	A calibration technique to correct sensor drift issues in hot-wire anemometry. *Measurement Science and Technology*, **2014**, 25, 105304	2	44
117	Self-similarity in the inertial region of wall turbulence. *Physical Review E*, **2014**, 90, 063015	2.4	18
116	Multiscale analysis of fluxes at the turbulent/non-turbulent interface in high Reynolds number boundary layers. *Physics of Fluids*, **2014**, 26, 015105	4.4	39
115	Reynolds-number-dependent turbulent inertia and onset of log region in pipe flows. *Journal of Fluid Mechanics*, **2014**, 757, 747-769	3.7	41
114	Amplitude modulation of all three velocity components in turbulent boundary layers. *Journal of Fluid Mechanics*, **2014**, 746,	3.7	101
113	Controlling the Large-Scale Motions in a Turbulent Boundary Layer. *Lecture Notes in Mechanical Engineering*, **2014**, 17-26	0.4	4
112	Wall-bounded turbulence. *Physics Today*, **2013**, 66, 25-30	0.9	43
111	Minimization of divergence error in volumetric velocity measurements and implications for turbulence statistics. *Experiments in Fluids*, **2013**, 54, 1	2.5	36
110	Evolution of the turbulent/non-turbulent interface of an axisymmetric turbulent jet. *Experiments in Fluids*, **2013**, 54, 1	2.5	23
109	LES of the adverse-pressure gradient turbulent boundary layer. *International Journal of Heat and Fluid Flow*, **2013**, 44, 293-300	2.4	11
108	Spatial averaging of velocity measurements in wall-bounded turbulence: single hot-wires. *Measurement Science and Technology*, **2013**, 24, 115301	2	5
107	Estimating wall-shear-stress fluctuations given an outer region input. *Journal of Fluid Mechanics*, **2013**, 715, 163-180	3.7	98
106	Pressure gradient effects on the large-scale structure of turbulent boundary layers. *Journal of Fluid Mechanics*, **2013**, 715, 477-498	3.7	105
105	Generalized logarithmic law for high-order moments in turbulent boundary layers. *Journal of Fluid Mechanics*, **2013**, 719,	3.7	105
104	On the logarithmic region in wall turbulence. *Journal of Fluid Mechanics*, **2013**, 716,	3.7	365

103	Structure Inclination Angles in the Convective Atmospheric Surface Layer. *Boundary-Layer Meteorology*, **2013**, 147, 41-50	3.4	36
102	Enhancing Tomo-PIV reconstruction quality by reducing ghost particles. *Measurement Science and Technology*, **2013**, 24, 024010	2	19
101	Spatial averaging of streamwise and spanwise velocity measurements in wall-bounded turbulence using ?- and ⊟probes. *Measurement Science and Technology*, **2013**, 24, 115302	2	10
100	Multiscale geometry and scaling of the turbulent-nonturbulent interface in high Reynolds number boundary layers. *Physical Review Letters*, **2013**, 111, 044501	7.4	60
99	Obtaining accurate mean velocity measurements in high Reynolds number turbulent boundary layers using Pitot tubes. *Journal of Fluid Mechanics*, **2013**, 715, 642-670	3.7	48
98	Amplitude and frequency modulation in wall turbulence. *Journal of Fluid Mechanics*, **2012**, 712, 61-91	3.7	113
97	Induced flow due to blowing and suction flow control: an analysis of transpiration. *Journal of Fluid Mechanics*, **2012**, 690, 366-398	3.7	9
96	Assessment of tomographic PIV in wall-bounded turbulence using direct numerical simulation data. *Experiments in Fluids*, **2012**, 52, 425-440	2.5	20
95	Coherent structures in flow over hydraulic engineering surfaces. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2012**, 50, 451-464	1.9	81
94	The topology of skin friction and surface vorticity fields in wall-bounded flows. *Journal of Turbulence*, **2012**, 13, N6	2.1	27
93	Taking the "waste" out of "wastewater" for human water security and ecosystem sustainability. *Science*, **2012**, 337, 681-6	33.3	394
92	Response to "Letter to the editor regarding 'crossing turbulent boundaries: interfacial flux in environmental flows'". *Environmental Science & Technology*, **2012**, 46, 5263	10.3	
91	Towards Reconciling the Large-Scale Structure of Turbulent Boundary Layers in the Atmosphere and Laboratory. *Boundary-Layer Meteorology*, **2012**, 145, 273-306	3.4	154
90	Spring constant calibration of atomic force microscope cantilevers of arbitrary shape. *Review of Scientific Instruments*, **2012**, 83, 103705	1.7	167
89	Effective diffusivity and mass flux across the sediment-water interface in streams. *Water Resources Research*, **2012**, 48,	5.4	33
88	Reynolds number effects on scale energy balance in wall turbulence. *Physics of Fluids*, **2012**, 24, 015101	4.4	24
87	Large-scale eddies and their role in entrainment in turbulent jets and wakes. *Physics of Fluids*, **2012**, 24, 055108	4.4	49
86	Emergence of the four layer dynamical regime in turbulent pipe flow. *Physics of Fluids*, **2012**, 24, 045107	4.4	22

85	Inner-layer intensities for the flat-plate turbulent boundary layer combining a predictive wall-model with large-eddy simulations. *Physics of Fluids*, **2012**, 24, 075102	4.4	27
84	Pressure fluctuation in high-Reynolds-number turbulent boundary layer: results from experiments and DNS. *Journal of Turbulence*, **2012**, 13, N50	2.1	17
83	High Reynolds Number Wall Turbulence. *Annual Review of Fluid Mechanics*, **2011**, 43, 353-375	22	506
82	The relationship between the velocity skewness and the amplitude modulation of the small scale by the large scale in turbulent boundary layers. *Physics of Fluids*, **2011**, 23, 121702	4.4	72
81	A wall-shear stress predictive model. *Journal of Physics: Conference Series*, **2011**, 318, 012003	0.3	8
80	Spatial resolution correction for wall-bounded turbulence measurements. *Journal of Fluid Mechanics*, **2011**, 676, 41-53	3.7	78
79	A predictive inner–outer model for streamwise turbulence statistics in wall-bounded flows. *Journal of Fluid Mechanics*, **2011**, 681, 537-566	3.7	128
78	Three-dimensional conditional structure of a high-Reynolds-number turbulent boundary layer. *Journal of Fluid Mechanics*, **2011**, 673, 255-285	3.7	115
77	Dr Timothy Bruce Nickels (1966–2010). *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2011**, 369, 706-708	3	
76	Spatial resolution correction for hot-wire anemometry in wall turbulence. *Experiments in Fluids*, **2011**, 50, 1443-1453	2.5	26
75	Comparison of turbulent channel and pipe flows with varying Reynolds number. *Experiments in Fluids*, **2011**, 51, 1261-1281	2.5	44
74	Crossing turbulent boundaries: interfacial flux in environmental flows. *Environmental Science & Technology*, **2011**, 45, 7107-13	10.3	37
73	A parametric study of adverse pressure gradient turbulent boundary layers. *International Journal of Heat and Fluid Flow*, **2011**, 32, 575-585	2.4	90
72	Reynolds Number Dependence of the Amplitude Modulated Near-Wall Cycle. *ERCOFTAC Series*, **2011**, 105-112	0.1	1
71	Empirical mode decomposition and Hilbert transforms for analysis of oil-film interferograms. *Measurement Science and Technology*, **2010**, 21, 105405	2	12
70	Predictive model for wall-bounded turbulent flow. *Science*, **2010**, 329, 193-6	33.3	278
69	On the maximum drag reduction due to added polymers in Poiseuille flow. *Journal of Fluid Mechanics*, **2010**, 659, 473-483	3.7	3
68	Evolution and lifetimes of flow topology in a turbulent boundary layer. *Physics of Fluids*, **2010**, 22, 015102	4.4	58

67	The influence of pipe length on turbulence statistics computed from direct numerical simulation data. *Physics of Fluids*, **2010**, 22, 115107	4.4	85
66	Wall-bounded turbulent flows at high Reynolds numbers: Recent advances and key issues. *Physics of Fluids*, **2010**, 22, 065103	4.4	471
65	Universal aspects of small-scale motions in turbulence. *Journal of Fluid Mechanics*, **2010**, 662, 514-539	3.7	78
64	High Reynolds number effects in wall turbulence. *International Journal of Heat and Fluid Flow*, **2010**, 31, 418-428	2.4	117
63	A High Reynolds Number Turbulent Boundary Layer with Regular Braille-Type Roughness. *IUTAM Symposium on Cellular, Molecular and Tissue Mechanics*, **2010**, 69-75	0.3	2
62	Comparison of large-scale amplitude modulation in turbulent boundary layers, pipes, and channel flows. *Physics of Fluids*, **2009**, 21, 111703	4.4	72
61	A comparison of turbulent pipe, channel and boundary layer flows. *Journal of Fluid Mechanics*, **2009**, 632, 431-442	3.7	229
60	Large-scale amplitude modulation of the small-scale structures in turbulent boundary layers. *Journal of Fluid Mechanics*, **2009**, 628, 311-337	3.7	443
59	Unravelling turbulence near walls. *Journal of Fluid Mechanics*, **2009**, 630, 1-4	3.7	23
58	Hot-wire spatial resolution issues in wall-bounded turbulence. *Journal of Fluid Mechanics*, **2009**, 635, 103-136	3.7	328
57	Use of direct numerical simulation (DNS) data to investigate spatial resolution issues in measurements of wall-bounded turbulence. *Measurement Science and Technology*, **2009**, 20, 115401	2	39
56	On the asymptotic similarity of the zero-pressure-gradient turbulent boundary layer. *Journal of Fluid Mechanics*, **2008**, 616, 195-203	3.7	15
55	Study of the Log-Layer Structure in Wall Turbulence Over a Very Large Range of Reynolds Number. *Flow, Turbulence and Combustion*, **2008**, 81, 115-130	2.5	57
54	Minimum Sustainable Drag for Constant Volume-Flux Pipe Flows. *IUTAM Symposium on Cellular, Molecular and Tissue Mechanics*, **2008**, 229-235	0.3	
53	Evidence of very long meandering features in the logarithmic region of turbulent boundary layers. *Journal of Fluid Mechanics*, **2007**, 579, 1-28	3.7	762
52	Laminar and turbulent comparisons for channel flow and flow control. *Journal of Fluid Mechanics*, **2007**, 570, 467-477	3.7	32
51	Reynolds number invariance of the structure inclination angle in wall turbulence. *Physical Review Letters*, **2007**, 99, 114504	7.4	104
50	Large-scale influences in near-wall turbulence. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2007**, 365, 647-64	3	375

49	Some predictions of the attached eddy model for a high Reynolds number boundary layer. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2007**, 365, 807-22	3	86
48	Developing an Integrated Approach for Public Participation: A Case of Land-Use Planning in Slovenia. *Environment and Planning B: Planning and Design*, **2007**, 34, 993-1010		25
47	Use of dual plane PIV to assess scale-by-scale energy budgets in wall turbulence **2007**, 343-345		
46	Wall Shear stress measurements in the atmosperhic surface layer **2007**, 511-513		
45	Wall-Bounded Flows **2007**, 871-907		7
44	Fully mapped energy spectra in a high Reynolds number turbulent boundary layer **2007**, 349-351		0
43	Experimental investigation of vortex properties in a turbulent boundary layer. *Physics of Fluids*, **2006**, 18, 055105	4.4	65
42	Investigation of the log region structure in wall bounded turbulence **2006**,		2
41	A Synthetic Inflow Generation Method Using the Attached Eddy Hypothesis **2006**,		12
40	Strategies for the visualization of multiple 2D vector fields. *IEEE Computer Graphics and Applications* , **2006**, 26, 74-82	1.7	19
39	Simultaneous orthogonal-plane particle image velocimetry measurements in a turbulent boundary layer. *Journal of Fluid Mechanics*, **2006**, 560, 53	3.7	86
38	Study of the near-wall-turbulent region of the high-Reynolds-number boundary layer using an atmospheric flow. *Journal of Fluid Mechanics*, **2006**, 548, 375	3.7	169
37	Assessment of dual plane PIV measurements in wall turbulence using DNS data. *Experiments in Fluids*, **2006**, 41, 265-278	2.5	30
36	National character does not reflect mean personality trait levels in 49 cultures. *Science*, **2005**, 310, 96-100	33.3	330
35	Inclined cross-stream stereo particle image velocimetry measurements in turbulent boundary layers. *Journal of Fluid Mechanics*, **2005**, 541, 21	3.7	128
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2			31
1	Spatial resolution correction for wall-bounded turbulence measurements		2