

Ivan Marusic

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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	Evidence of very long meandering features in the logarithmic region of turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2007 , 579, 1-28	3.7	762
227	High Reynolds Number Wall Turbulence. <i>Annual Review of Fluid Mechanics</i> , 2011 , 43, 353-375	22	506
226	Wall-bounded turbulent flows at high Reynolds numbers: Recent advances and key issues. <i>Physics of Fluids</i> , 2010 , 22, 065103	4.4	471
225	Large-scale amplitude modulation of the small-scale structures in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2009 , 628, 311-337	3.7	443
224	Taking the "waste" out of "wastewater" for human water security and ecosystem sustainability. <i>Science</i> , 2012 , 337, 681-6	33.3	394
223	Large-scale influences in near-wall turbulence. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007 , 365, 647-64	3	375
222	On the logarithmic region in wall turbulence. <i>Journal of Fluid Mechanics</i> , 2013 , 716,	3.7	365
221	Characteristics of vortex packets in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2003 , 478, 35-46	3.7	335
220	National character does not reflect mean personality trait levels in 49 cultures. <i>Science</i> , 2005 , 310, 96-100	33.3	330
219	Hot-wire spatial resolution issues in wall-bounded turbulence. <i>Journal of Fluid Mechanics</i> , 2009 , 635, 103-136	3.7	328
218	Predictive model for wall-bounded turbulent flow. <i>Science</i> , 2010 , 329, 193-6	33.3	278
217	A comparison of turbulent pipe, channel and boundary layer flows. <i>Journal of Fluid Mechanics</i> , 2009 , 632, 431-442	3.7	229
216	A wall-wake model for the turbulence structure of boundary layers. Part 1. Extension of the attached eddy hypothesis. <i>Journal of Fluid Mechanics</i> , 1995 , 298, 361-388	3.7	227
215	Streamwise turbulence intensity formulation for flat-plate boundary layers. <i>Physics of Fluids</i> , 2003 , 15, 2461-2464	4.4	172
214	Study of the near-wall-turbulent region of the high-Reynolds-number boundary layer using an atmospheric flow. <i>Journal of Fluid Mechanics</i> , 2006 , 548, 375	3.7	169
213	Investigation of large-scale coherence in a turbulent boundary layer using two-point correlations. <i>Journal of Fluid Mechanics</i> , 2005 , 524, 57-80	3.7	168
212	Spring constant calibration of atomic force microscope cantilevers of arbitrary shape. <i>Review of Scientific Instruments</i> , 2012 , 83, 103705	1.7	167

211	Towards Reconciling the Large-Scale Structure of Turbulent Boundary Layers in the Atmosphere and Laboratory. <i>Boundary-Layer Meteorology</i> , 2012 , 145, 273-306	3.4	154
210	A wall-wake model for the turbulence structure of boundary layers. Part 2. Further experimental support. <i>Journal of Fluid Mechanics</i> , 1995 , 298, 389-407	3.7	151
209	Evidence of the kappa1-1 law in a high-Reynolds-number turbulent boundary layer. <i>Physical Review Letters</i> , 2005 , 95, 074501	7.4	142
208	On the role of large-scale structures in wall turbulence. <i>Physics of Fluids</i> , 2001 , 13, 735-743	4.4	141
207	A predictive innerBuffer model for streamwise turbulence statistics in wall-bounded flows. <i>Journal of Fluid Mechanics</i> , 2011 , 681, 537-566	3.7	128
206	Inclined cross-stream stereo particle image velocimetry measurements in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2005 , 541, 21	3.7	128
205	Attached Eddy Model of Wall Turbulence. <i>Annual Review of Fluid Mechanics</i> , 2019 , 51, 49-74	2.2	118
204	High Reynolds number effects in wall turbulence. <i>International Journal of Heat and Fluid Flow</i> , 2010 , 31, 418-428	2.4	117
203	Three-dimensional conditional structure of a high-Reynolds-number turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2011 , 673, 255-285	3.7	115
202	Amplitude and frequency modulation in wall turbulence. <i>Journal of Fluid Mechanics</i> , 2012 , 712, 61-91	3.7	113
201	The turbulent/non-turbulent interface and entrainment in a boundary layer. <i>Journal of Fluid Mechanics</i> , 2014 , 742, 119-151	3.7	107
200	Pressure gradient effects on the large-scale structure of turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2013 , 715, 477-498	3.7	105
199	Generalized logarithmic law for high-order moments in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2013 , 719,	3.7	105
198	Reynolds number invariance of the structure inclination angle in wall turbulence. <i>Physical Review Letters</i> , 2007 , 99, 114504	7.4	104
197	Amplitude modulation of all three velocity components in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2014 , 746,	3.7	101
196	Estimating wall-shear-stress fluctuations given an outer region input. <i>Journal of Fluid Mechanics</i> , 2013 , 715, 163-180	3.7	98
195	A parametric study of adverse pressure gradient turbulent boundary layers. <i>International Journal of Heat and Fluid Flow</i> , 2011 , 32, 575-585	2.4	90
194	Evolution and structure of sink-flow turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2001 , 428, 1-27	3.7	87

193	Some predictions of the attached eddy model for a high Reynolds number boundary layer. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007 , 365, 807-22	3	86
192	Simultaneous orthogonal-plane particle image velocimetry measurements in a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2006 , 560, 53	3.7	86
191	The influence of pipe length on turbulence statistics computed from direct numerical simulation data. <i>Physics of Fluids</i> , 2010 , 22, 115107	4.4	85
190	Dual-plane PIV technique to determine the complete velocity gradient tensor in a turbulent boundary layer. <i>Experiments in Fluids</i> , 2005 , 39, 222-231	2.5	84
189	Coherent structures in flow over hydraulic engineering surfaces. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2012 , 50, 451-464	1.9	81
188	Comparison of turbulent boundary layers over smooth and rough surfaces up to high Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2016 , 795, 210-240	3.7	79
187	Spatial resolution correction for wall-bounded turbulence measurements. <i>Journal of Fluid Mechanics</i> , 2011 , 676, 41-53	3.7	78
186	Universal aspects of small-scale motions in turbulence. <i>Journal of Fluid Mechanics</i> , 2010 , 662, 514-539	3.7	78
185	Similarity law for the streamwise turbulence intensity in zero-pressure-gradient turbulent boundary layers. <i>Physics of Fluids</i> , 1997 , 9, 3718-3726	4.4	74
184	Evolution of zero-pressure-gradient boundary layers from different tripping conditions. <i>Journal of Fluid Mechanics</i> , 2015 , 783, 379-411	3.7	72
183	The relationship between the velocity skewness and the amplitude modulation of the small scale by the large scale in turbulent boundary layers. <i>Physics of Fluids</i> , 2011 , 23, 121702	4.4	72
182	Comparison of large-scale amplitude modulation in turbulent boundary layers, pipes, and channel flows. <i>Physics of Fluids</i> , 2009 , 21, 111703	4.4	72
181	Experimental investigation of vortex properties in a turbulent boundary layer. <i>Physics of Fluids</i> , 2006 , 18, 055105	4.4	65
180	Uniform momentum zones in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2016 , 786, 309-331	3.7	65
179	On the streamwise evolution of turbulent boundary layers in arbitrary pressure gradients. <i>Journal of Fluid Mechanics</i> , 2002 , 461, 61-91	3.7	64
178	Multiscale geometry and scaling of the turbulent-nonturbulent interface in high Reynolds number boundary layers. <i>Physical Review Letters</i> , 2013 , 111, 044501	7.4	60
177	Experimental study of wall boundary conditions for large-eddy simulation. <i>Journal of Fluid Mechanics</i> , 2001 , 446, 309-320	3.7	60
176	Evolution and lifetimes of flow topology in a turbulent boundary layer. <i>Physics of Fluids</i> , 2010 , 22, 015102	4.4	58

175	Study of the Log-Layer Structure in Wall Turbulence Over a Very Large Range of Reynolds Number. <i>Flow, Turbulence and Combustion</i> , 2008 , 81, 115-130	2.5	57
174	Spectral stochastic estimation of high-Reynolds-number wall-bounded turbulence for a refined inner-outer interaction model. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	56
173	Fully resolved measurements of turbulent boundary layer flows up to. <i>Journal of Fluid Mechanics</i> , 2018 , 851, 391-415	3.7	55
172	The statistical behaviour of attached eddies. <i>Physics of Fluids</i> , 2015 , 27, 015104	4.4	54
171	Wavelet analysis of wall turbulence to study large-scale modulation of small scales. <i>Experiments in Fluids</i> , 2015 , 56, 1	2.5	53
170	Self-similarity of wall-attached turbulence in boundary layers. <i>Journal of Fluid Mechanics</i> , 2017 , 823,	3.7	51
169	Estimating large-scale structures in wall turbulence using linear models. <i>Journal of Fluid Mechanics</i> , 2018 , 842, 146-162	3.7	51
168	Scaling of second- and higher-order structure functions in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2015 , 769, 654-686	3.7	51
167	Large-scale eddies and their role in entrainment in turbulent jets and wakes. <i>Physics of Fluids</i> , 2012 , 24, 055108	4.4	49
166	Obtaining accurate mean velocity measurements in high Reynolds number turbulent boundary layers using Pitot tubes. <i>Journal of Fluid Mechanics</i> , 2013 , 715, 642-670	3.7	48
165	Self-similarity of the large-scale motions in turbulent pipe flow. <i>Journal of Fluid Mechanics</i> , 2016 , 792,	3.7	47
164	Distance-from-the-wall scaling of turbulent motions in wall-bounded flows. <i>Physics of Fluids</i> , 2017 , 29, 020712	4.4	45
163	A calibration technique to correct sensor drift issues in hot-wire anemometry. <i>Measurement Science and Technology</i> , 2014 , 25, 105304	2	44
162	Comparison of turbulent channel and pipe flows with varying Reynolds number. <i>Experiments in Fluids</i> , 2011 , 51, 1261-1281	2.5	44
161	Scaling of the streamwise turbulence intensity in the context of inner-outer interactions in wall turbulence*. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	44
160	Wall-bounded turbulence. <i>Physics Today</i> , 2013 , 66, 25-30	0.9	43
159	Reynolds-number-dependent turbulent inertia and onset of log region in pipe flows. <i>Journal of Fluid Mechanics</i> , 2014 , 757, 747-769	3.7	41
158	Entrainment at multi-scales across the turbulent/non-turbulent interface in an axisymmetric jet. <i>Journal of Fluid Mechanics</i> , 2016 , 802, 690-725	3.7	41

157	Multiscale analysis of fluxes at the turbulent/non-turbulent interface in high Reynolds number boundary layers. <i>Physics of Fluids</i> , 2014 , 26, 015105	4.4	39
156	Use of direct numerical simulation (DNS) data to investigate spatial resolution issues in measurements of wall-bounded turbulence. <i>Measurement Science and Technology</i> , 2009 , 20, 115401	2	39
155	High spatial range velocity measurements in a high Reynolds number turbulent boundary layer. <i>Physics of Fluids</i> , 2014 , 26, 025117	4.4	38
154	Crossing turbulent boundaries: interfacial flux in environmental flows. <i>Environmental Science & Technology</i> , 2011 , 45, 7107-13	10.3	37
153	Skin-friction drag reduction in a high-Reynolds-number turbulent boundary layer via real-time control of large-scale structures. <i>International Journal of Heat and Fluid Flow</i> , 2017 , 67, 30-41	2.4	36
152	Minimization of divergence error in volumetric velocity measurements and implications for turbulence statistics. <i>Experiments in Fluids</i> , 2013 , 54, 1	2.5	36
151	Structure Inclination Angles in the Convective Atmospheric Surface Layer. <i>Boundary-Layer Meteorology</i> , 2013 , 147, 41-50	3.4	36
150	Wall turbulence closure based on classical similarity laws and the attached eddy hypothesis. <i>Physics of Fluids</i> , 1994 , 6, 1024-1035	4.4	35
149	Effective diffusivity and mass flux across the sediment-water interface in streams. <i>Water Resources Research</i> , 2012 , 48,	5.4	33
148	Interfaces of uniform momentum zones in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2017 , 820, 451-478	3.7	32
147	Laminar and turbulent comparisons for channel flow and flow control. <i>Journal of Fluid Mechanics</i> , 2007 , 570, 467-477	3.7	32
146	Measurements from flame chemiluminescence tomography of forced laminar premixed propane flames. <i>Combustion and Flame</i> , 2017 , 183, 1-14	5.3	31
145			31
144	Friction factor decomposition for rough-wall flows: theoretical background and application to open-channel flows. <i>Journal of Fluid Mechanics</i> , 2019 , 872, 626-664	3.7	30
143	Assessment of dual plane PIV measurements in wall turbulence using DNS data. <i>Experiments in Fluids</i> , 2006 , 41, 265-278	2.5	30
142	Reynolds number trend of hierarchies and scale interactions in turbulent boundary layers. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	29
141	Two-dimensional energy spectra in high-Reynolds-number turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2017 , 826,	3.7	29
140	Scaling of the turbulent/non-turbulent interface in boundary layers. <i>Journal of Fluid Mechanics</i> , 2014 , 751, 298-328	3.7	27

139	The topology of skin friction and surface vorticity fields in wall-bounded flows. <i>Journal of Turbulence</i> , 2012 , 13, N6	2.1	27
138	Inner-layer intensities for the flat-plate turbulent boundary layer combining a predictive wall-model with large-eddy simulations. <i>Physics of Fluids</i> , 2012 , 24, 075102	4.4	27
137	Spatial resolution correction for hot-wire anemometry in wall turbulence. <i>Experiments in Fluids</i> , 2011 , 50, 1443-1453	2.5	26
136	Hierarchical random additive process and logarithmic scaling of generalized high order, two-point correlations in turbulent boundary layer flow. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	26
135	Developing an Integrated Approach for Public Participation: A Case of Land-Use Planning in Slovenia. <i>Environment and Planning B: Planning and Design</i> , 2007 , 34, 993-1010		25
134	Reynolds number effects on scale energy balance in wall turbulence. <i>Physics of Fluids</i> , 2012 , 24, 015101	4.4	24
133	Data-driven decomposition of the streamwise turbulence kinetic energy in boundary layers. Part 1. Energy spectra. <i>Journal of Fluid Mechanics</i> , 2020 , 882,	3.7	24
132	Wall-drag measurements of smooth- and rough-wall turbulent boundary layers using a floating element. <i>Experiments in Fluids</i> , 2016 , 57, 1	2.5	24
131	Applicability of Taylor's hypothesis in rough- and smooth-wall boundary layers. <i>Journal of Fluid Mechanics</i> , 2017 , 812, 398-417	3.7	23
130	Evolution of the turbulent/non-turbulent interface of an axisymmetric turbulent jet. <i>Experiments in Fluids</i> , 2013 , 54, 1	2.5	23
129	Unravelling turbulence near walls. <i>Journal of Fluid Mechanics</i> , 2009 , 630, 1-4	3.7	23
128	On the different contributions of coherent structures to the spectra of a turbulent round jet and a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2001 , 448, 367-385	3.7	23
127	Moment generating functions and scaling laws in the inertial layer of turbulent wall-bounded flows. <i>Journal of Fluid Mechanics</i> , 2016 , 791,	3.7	23
126	Revisiting the law of the wake in wall turbulence. <i>Journal of Fluid Mechanics</i> , 2017 , 811, 421-435	3.7	22
125	On the universality of inertial energy in the log layer of turbulent boundary layer and pipe flows. <i>Experiments in Fluids</i> , 2015 , 56, 1	2.5	22
124	Emergence of the four layer dynamical regime in turbulent pipe flow. <i>Physics of Fluids</i> , 2012 , 24, 045107	4.4	22
123	Extended self-similarity in moment-generating-functions in wall-bounded turbulence at high Reynolds number. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	22
122	Inner-outer interactions in rough-wall turbulence. <i>Journal of Turbulence</i> , 2016 , 17, 1159-1178	2.1	22

121	Global and local aspects of entrainment in temporal plumes. <i>Journal of Fluid Mechanics</i> , 2017 , 812, 222-250	3.9	21
120	Hydraulic resistance in open-channel flows over self-affine rough beds. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2019 , 57, 183-196	1.9	21
119	Temporally optimized spanwise vorticity sensor measurements in turbulent boundary layers. <i>Experiments in Fluids</i> , 2015 , 56, 1	2.5	21
118	Assessment of tomographic PIV in wall-bounded turbulence using direct numerical simulation data. <i>Experiments in Fluids</i> , 2012 , 52, 425-440	2.5	20
117	Enhancing Tomo-PIV reconstruction quality by reducing ghost particles. <i>Measurement Science and Technology</i> , 2013 , 24, 024010	2	19
116	Strategies for the visualization of multiple 2D vector fields. <i>IEEE Computer Graphics and Applications</i> , 2006 , 26, 74-82	1.7	19
115	Self-similarity in the inertial region of wall turbulence. <i>Physical Review E</i> , 2014 , 90, 063015	2.4	18
114	Data-driven decomposition of the streamwise turbulence kinetic energy in boundary layers. Part 2. Integrated energy and. <i>Journal of Fluid Mechanics</i> , 2020 , 882,	3.7	18
113	Drag forces on a bed particle in open-channel flow: effects of pressure spatial fluctuations and very-large-scale motions. <i>Journal of Fluid Mechanics</i> , 2019 , 863, 494-512	3.7	17
112	Coherent large-scale structures from the linearized Navier-Stokes equations. <i>Journal of Fluid Mechanics</i> , 2019 , 873, 89-109	3.7	17
111	The effect of spanwise wavelength of surface heterogeneity on turbulent secondary flows. <i>Journal of Fluid Mechanics</i> , 2020 , 894,	3.7	17
110	Pressure fluctuation in high-Reynolds-number turbulent boundary layer: results from experiments and DNS. <i>Journal of Turbulence</i> , 2012 , 13, N50	2.1	17
109	Large coherence of spanwise velocity in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2018 , 847, 161-185	3.7	17
108	Turbulence wall-shear stress sensor for the atmospheric surface layer. <i>Measurement Science and Technology</i> , 2005 , 16, 1644-1649	2	16
107	Influence of spatial exclusion on the statistical behavior of attached eddies. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	16
106	Dissipation scaling in constant-pressure turbulent boundary layers. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	16
105	Structure function tensor scaling in the logarithmic region derived from the attached eddy model of wall-bounded turbulent flows. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	16
104	The anisotropic structure of turbulence and its energy spectrum. <i>Physics of Fluids</i> , 2016 , 28, 011701	4.4	16

103	On the asymptotic similarity of the zero-pressure-gradient turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2008 , 616, 195-203	3.7	15
102	Laminar boundary layer on an impulsively started rotating sphere. <i>Physics of Fluids</i> , 1979 , 22, 1		14
101	Generalization of the PIV loss-of-correlation formula introduced by Keane and Adrian. <i>Experiments in Fluids</i> , 2017 , 58, 1	2.5	13
100	Recovery of wall-shear stress to equilibrium flow conditions after a rough-to-smooth step change in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2019 , 872, 472-491	3.7	13
99	Simultaneous skin friction and velocity measurements in high Reynolds number pipe and boundary layer flows. <i>Journal of Fluid Mechanics</i> , 2019 , 871, 377-400	3.7	13
98	Investigation of three dimensionality in the near field of a round jet using stereo PIV. <i>Journal of Turbulence</i> , 2002 , 3, N16	2.1	13
97	Coherent structures in the linearized impulse response of turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2019 , 863, 1190-1203	3.7	12
96	Empirical mode decomposition and Hilbert transforms for analysis of oil-film interferograms. <i>Measurement Science and Technology</i> , 2010 , 21, 105405	2	12
95	A Synthetic Inflow Generation Method Using the Attached Eddy Hypothesis 2006 ,		12
94	Vertical Coherence of Turbulence in the Atmospheric Surface Layer: Connecting the Hypotheses of Townsend and Davenport. <i>Boundary-Layer Meteorology</i> , 2019 , 172, 199-214	3.4	11
93	LES of the adverse-pressure gradient turbulent boundary layer. <i>International Journal of Heat and Fluid Flow</i> , 2013 , 44, 293-300	2.4	11
92	Smooth- and rough-wall boundary layer structure from high spatial range particle image velocimetry. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	11
91	Statistics of turbulence in the energy-containing range of Taylor-Couette compared to canonical wall-bounded flows. <i>Journal of Fluid Mechanics</i> , 2017 , 830, 797-819	3.7	10
90	Streamwise inclination angle of large wall-attached structures in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2019 , 877,	3.7	10
89	Modeling bed shear-stress fluctuations in a shallow tidal channel. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 3185-3199	3.3	10
88	Spatial averaging of streamwise and spanwise velocity measurements in wall-bounded turbulence using π - and ϵ -probes. <i>Measurement Science and Technology</i> , 2013 , 24, 115302	2	10
87	An approximate amplitude attenuation correction for hot-film shear stress sensors. <i>Experiments in Fluids</i> , 2003 , 34, 285-290	2.5	10
86	Hierarchical random additive model for the spanwise and wall-normal velocities in wall-bounded flows at high Reynolds numbers. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	10

85	Amplitude modulation of pressure in turbulent boundary layer. <i>International Journal of Heat and Fluid Flow</i> , 2016 , 61, 2-11	2.4	10
84	Fractal scaling of the turbulence interface in gravity currents. <i>Journal of Fluid Mechanics</i> , 2017 , 820,	3.7	9
83	Induced flow due to blowing and suction flow control: an analysis of transpiration. <i>Journal of Fluid Mechanics</i> , 2012 , 690, 366-398	3.7	9
82	Two-dimensional cross-spectrum of the streamwise velocity in turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2020 , 890,	3.7	9
81	Leonardo da Vinci and Fluid Mechanics. <i>Annual Review of Fluid Mechanics</i> , 2021 , 53, 1-25	2.2	9
80	Universality of the energy-containing structures in wall-bounded turbulence. <i>Journal of Fluid Mechanics</i> , 2017 , 823, 498-510	3.7	8
79	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> , 2019 , 869, 182-213	3.7	8
78	On the mixing length eddies and logarithmic mean velocity profile in wall turbulence. <i>Journal of Fluid Mechanics</i> , 2020 , 887,	3.7	8
77	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> , 2015 , 26 Suppl 1, e43-54	1.4	8
76	A wall-shear stress predictive model. <i>Journal of Physics: Conference Series</i> , 2011 , 318, 012003	0.3	8
75	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> , 2018 , 3,	2.8	8
74	Towards an improved spatial representation of a boundary layer from the attached eddy model. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	8
73	Trajectory of a synthetic jet issuing into high-Reynolds-number turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2018 , 856, 531-551	3.7	8
72	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> , 2019 , 30, 085303	3.3	7
71	Active Micropump-Mixer for Rapid Antiplatelet Drug Screening in Whole Blood. <i>Analytical Chemistry</i> , 2019 , 91, 10830-10839	7.8	7
70	Reynolds number and roughness effects on turbulent stresses in sandpaper roughness boundary layers. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	7
69	Wall-Bounded Flows 2007 , 871-907		7
68	Assessment of a miniature four-roll mill and a cross-slot microchannel for high-strain-rate stagnation point flows. <i>Measurement Science and Technology</i> , 2018 , 29, 045302	2	6

67	The coupling between inner and outer scales in a zero pressure boundary layer evaluated using a Hölder exponent framework. <i>Fluid Dynamics Research</i> , 2016 , 48, 021405	1.2	6
66	The Eddies and Scales of Wall Turbulence 176-220		6
65	Some observations regarding the education of landscape architects for the 21st century. <i>Landscape and Urban Planning</i> , 2002 , 60, 95-103	7.7	6
64	Spectral-scaling-based extension to the attached eddy model of wall turbulence. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	6
63	Simultaneous micro-PIV measurements and real-time control trapping in a cross-slot channel. <i>Experiments in Fluids</i> , 2018 , 59, 1	2.5	6
62	Sensitivity of turbulent stresses in boundary layers to cross-wire probe uncertainties in the geometry and calibration procedure. <i>Measurement Science and Technology</i> , 2019 , 30, 085301	2	5
61	A scheme to correct the influence of calibration misalignment for cross-wire probes in turbulent shear flows. <i>Experiments in Fluids</i> , 2020 , 61, 1	2.5	5
60	Spatial averaging of velocity measurements in wall-bounded turbulence: single hot-wires. <i>Measurement Science and Technology</i> , 2013 , 24, 115301	2	5
59	Pressure power spectrum in high-Reynolds number wall-bounded flows. <i>International Journal of Heat and Fluid Flow</i> , 2020 , 84, 108620	2.4	5
58	Energy transfer in turbulent channel flows and implications for resolvent modelling. <i>Journal of Fluid Mechanics</i> , 2021 , 911,	3.7	5
57	Impact of mismatched and misaligned laser light sheet profiles on PIV performance. <i>Experiments in Fluids</i> , 2018 , 59, 1	2.5	5
56	Transition to ultimate Rayleigh-Bénard turbulence revealed through extended self-similarity scaling analysis of the temperature structure functions. <i>Journal of Fluid Mechanics</i> , 2018 , 851,	3.7	5
55	A direct comparison of pulsatile and non-pulsatile rough-wall turbulent pipe flow. <i>Journal of Fluid Mechanics</i> , 2020 , 895,	3.7	4
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