Alexander J Smits

List of Publications by Citations

255 papers	10,998 citations	55 h-index	95 g-index
276 ext. papers	13,000 ext. citations	3.5 avg, IF	6.74 L-index

#	Paper	IF	Citations
255	High Reynolds Number Wall Turbulence. *Annual Review of Fluid Mechanics*, **2011**, 43, 353-375	22	506
254	Mean-flow scaling of turbulent pipe flow. *Journal of Fluid Mechanics*, **1998**, 373, 33-79	3.7	505
253	Wall-bounded turbulent flows at high Reynolds numbers: Recent advances and key issues. *Physics of Fluids*, **2010**, 22, 065103	4.4	471
252	ENERGY HARVESTING EEL. *Journal of Fluids and Structures*, **2001**, 15, 629-640	3.1	379
251	On the logarithmic region in wall turbulence. *Journal of Fluid Mechanics*, **2013**, 716,	3.7	365
250	Turbulent pipe flow at extreme Reynolds numbers. *Physical Review Letters*, **2012**, 108, 094501	7.4	213
249	Further observations on the mean velocity distribution in fully developed pipe flow. *Journal of Fluid Mechanics*, **2004**, 501, 135-147	3.7	209
248	Scaling of the streamwise velocity component in turbulent pipe flow. *Journal of Fluid Mechanics*, **2004**, 508, 99-131	3.7	165
247	The Physics of Supersonic Turbulent Boundary Layers. *Annual Review of Fluid Mechanics*, **1994**, 26, 287-319	22	164
246	Roughness effects in turbulent pipe flow. *Journal of Fluid Mechanics*, **2006**, 564, 267	3.7	153
245	The wake structure and thrust performance of a rigid low-aspect-ratio pitching panel. *Journal of Fluid Mechanics*, **2008**, 603, 331-365	3.7	148
244	Scaling laws for the thrust production of flexible pitching panels. *Journal of Fluid Mechanics*, **2013**, 732, 29-46	3.7	147
243	Scaling the propulsive performance of heaving flexible panels. *Journal of Fluid Mechanics*, **2014**, 738, 250-267	3.7	144
242	On the evolution of the wake structure produced by a low-aspect-ratio pitching panel. *Journal of Fluid Mechanics*, **2005**, 564, 433-443	3.7	140
241	Horseshoe vortex systems resulting from the interaction between a laminar boundary layer and a transverse jet. *Physics of Fluids*, **1995**, 7, 153-158	4.4	139
240	Experimental study of three shock wave/turbulent boundary layer interactions. *Journal of Fluid Mechanics*, **1987**, 182, 291	3.7	136
239	The Response of Turbulent Boundary Layers to Sudden Perturbations. *Annual Review of Fluid Mechanics*, **1985**, 17, 321-358	22	133

238	The effect of short regions of high surface curvature on turbulent boundary layers. *Journal of Fluid Mechanics*, **1979**, 94, 209-242	3.7	129
237	Friction factors for smooth pipe flow. *Journal of Fluid Mechanics*, **2004**, 511, 41-44	3.7	120
236	A new friction factor relationship for fully developed pipe flow. *Journal of Fluid Mechanics*, **2005**, 538, 429	3.7	116
235	Constant temperature hot-wire anemometer practice in supersonic flows. *Experiments in Fluids*, **1983**, 1, 83-92	2.5	112
234	Log laws or power laws: The scaling in the overlap region. *Physics of Fluids*, **1997**, 9, 2094-2100	4.4	106
233	Thrust production and wake structure of a batoid-inspired oscillating fin. *Journal of Fluid Mechanics*, **2006**, 562, 415-429	3.7	103
232	Turbulence measurements using a nanoscale thermal anemometry probe. *Journal of Fluid Mechanics*, **2010**, 663, 160-179	3.7	100
231	Scaling the propulsive performance of heaving and pitching foils. *Journal of Fluid Mechanics*, **2017**, 822, 386-397	3.7	100
230	The unsteady three-dimensional wake produced by a trapezoidal pitching panel. *Journal of Fluid Mechanics*, **2011**, 685, 117-145	3.7	98
229	Scaling of the Mean Velocity Profile for Turbulent Pipe Flow. *Physical Review Letters*, **1997**, 78, 239-242	7.4	97
228	Unsteady propulsion near a solid boundary. *Journal of Fluid Mechanics*, **2014**, 742, 152-170	3.7	93
227	Logarithmic scaling of turbulence in smooth- and rough-wall pipe flow. *Journal of Fluid Mechanics*, **2013**, 728, 376-395	3.7	93
226	Turbulent drag reduction over air- and liquid- impregnated surfaces. *Physics of Fluids*, **2016**, 28, 015103	4.4	91
225	Maximizing the efficiency of a flexible propulsor using experimental optimization. *Journal of Fluid Mechanics*, **2015**, 767, 430-448	3.7	90
224	Flexible propulsors in ground effect. *Bioinspiration and Biomimetics*, **2014**, 9, 036008	2.6	85
223	Turbulence structure in a shock wave/turbulent boundary-layer interaction. *AIAA Journal*, **1989**, 27, 862-869	2.5	84
222	Propulsive performance of unsteady tandem hydrofoils in an in-line configuration. *Physics of Fluids*, **2014**, 26, 051901	4.4	83
221	Dynamic stall in vertical axis wind turbines: Comparing experiments and computations. *Journal of Wind Engineering and Industrial Aerodynamics*, **2015**, 146, 163-171	3.7	78

220	Spatial resolution correction for wall-bounded turbulence measurements. *Journal of Fluid Mechanics*, **2011**, 676, 41-53	3.7	78
219	Organized structures in a compressible, turbulent boundary layer. *Journal of Fluid Mechanics*, **1987**, 182, 85	3.7	75
218	Turbulent boundary layer statistics at very high Reynolds number. *Journal of Fluid Mechanics*, **2015**, 779, 371-389	3.7	72
217	Spectral scaling in boundary layers and pipes at very high Reynolds numbers. *Journal of Fluid Mechanics*, **2015**, 771, 303-326	3.7	70
216	On the structure of high-Reynolds-number supersonic turbulent boundary layers. *Journal of Fluid Mechanics*, **1991**, 222, 293	3.7	70
215	Low-Reynolds-Number Turbulent Boundary Layers in Zero and Favorable Pressure Gradients. *Journal of Ship Research*, **1983**, 27, 147-157	0.9	69
214	Estimating the value of von K□m□□ constant in turbulent pipe flow. *Journal of Fluid Mechanics*, **2014**, 749, 79-98	3.7	68
213	Turbulence spectra in smooth- and rough-wall pipe flow at extreme Reynolds numbers. *Journal of Fluid Mechanics*, **2013**, 731, 46-63	3.7	68
212	Vortex suppression and drag reduction in the wake of counter-rotating cylinders. *Journal of Fluid Mechanics*, **2011**, 679, 343-382	3.7	68
211	A comparison of the turbulence structure of subsonic and supersonic boundary layers. *Physics of Fluids A, Fluid Dynamics*, **1989**, 1, 1865-1875		67
210	Undulatory and oscillatory swimming. *Journal of Fluid Mechanics*, **2019**, 874,	3.7	66
209	Scaling of near-wall turbulence in pipe flow. *Journal of Fluid Mechanics*, **2010**, 649, 103-113	3.7	66
208	Turbulence measurements in pipe flow using a nano-scale thermal anemometry probe. *Experiments in Fluids*, **2011**, 51, 1521-1527	2.5	64
207	Turbulent flow in smooth and rough pipes. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2007**, 365, 699-714	3	64
206	Aero-Optic Distortion in Transonic and Hypersonic Turbulent Boundary Layers. *AIAA Journal*, **2009**, 47, 2158-2168	2.1	62
205	Flow in a commercial steel pipe. *Journal of Fluid Mechanics*, **2008**, 595, 323-339	3.7	62
204	Quantitative visualization of compressible turbulent shear flows using condensate-enhanced Rayleigh scattering. *Experiments in Fluids*, **2004**, 37, 438-454	2.5	61
203	A turbulent flow over a curved hill Part 1. Growth of an internal boundary layer. *Journal of Fluid Mechanics*, **1987**, 182, 47	3.7	61

202	Visualization of the structure of supersonic turbulent boundary layers. *Experiments in Fluids*, **1995**, 18, 288-302	2.5	57
201	Substantial drag reduction in turbulent flow using liquid-infused surfaces. *Journal of Fluid Mechanics*, **2017**, 827, 448-456	3.7	56
200	Fully resolved measurements of turbulent boundary layer flows up to. *Journal of Fluid Mechanics*, **2018**, 851, 391-415	3.7	55
199	Efficient cruising for swimming and flying animals is dictated by fluid drag. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 8116-8118	11.5	55
198	Propulsive performance of unsteady tandem hydrofoils in a side-by-side configuration. *Physics of Fluids*, **2014**, 26, 041903	4.4	54
197	Visualizing the very-large-scale motions in turbulent pipe flow. *Physics of Fluids*, **2011**, 23, 011703	4.4	54
196	New Experimental Data of STBLI at DNS/LES Accessible Reynolds Numbers **2005**,		54
195	Azimuthal structure of turbulence in high Reynolds number pipe flow. *Journal of Fluid Mechanics*, **2008**, 615, 121-138	3.7	53
194	Experimental Study of a Mach 3 Compression Ramp Interaction at Re{theta} = 2400. *AIAA Journal*, **2009**, 47, 373-385	2.1	52
193	Experimental investigation of the structure of large- and very-large-scale motions in turbulent pipe flow. *Journal of Fluid Mechanics*, **2010**, 651, 339-356	3.7	52
192	A supersonic turbulent boundary layer in an adverse pressure gradient. *Journal of Fluid Mechanics*, **1990**, 211, 285-307	3.7	52
191	On the relationship between efficiency and wake structure of a batoid-inspired oscillating fin. *Journal of Fluid Mechanics*, **2012**, 691, 245-266	3.7	51
190	Temperature corrections for constant temperature and constant current hot-wire anemometers. *Measurement Science and Technology*, **2010**, 21, 105404	2	51
189	Hydrodynamic wake resonance as an underlying principle of efficient unsteady propulsion. *Journal of Fluid Mechanics*, **2012**, 708, 329-348	3.7	51
188	The structure of a supersonic turbulent boundary layer subjected to concave surface curvature. *Journal of Fluid Mechanics*, **1994**, 259, 1-24	3.7	51
187	Wake structures behind a swimming robotic lamprey with a passively flexible tail. *Journal of Experimental Biology*, **2012**, 215, 416-25	3	50
186	Effects of three-dimensionality on thrust production by a pitching panel. *Journal of Fluid Mechanics*, **2008**, 615, 211-220	3.7	50
185	Compressible boundary-layer density cross sections by UV Rayleigh scattering. *Optics Letters*, **1989**, 14, 916-8	3	49

184	The rapid expansion of a turbulent boundary layer in a supersonic flow. *Theoretical and Computational Fluid Dynamics*, **1991**, 2, 319-328	2.3	49
183	The response of a compressible turbulent boundary layer to short regions of concave surface curvature. *Journal of Fluid Mechanics*, **1987**, 175, 343	3.7	49
182	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
181	The response of a turbulent boundary layer to lateral divergence. *Journal of Fluid Mechanics*, **1979**, 94, 243-268	3.7	48
180	Self-similarity of the large-scale motions in turbulent pipe flow. *Journal of Fluid Mechanics*, **2016**, 792,	3.7	47
179	Using hyperbolic Lagrangian coherent structures to investigate vortices in bioinspired fluid flows. *Chaos*, **2010**, 20, 017510	3.3	46
178	Pitot probe corrections in fully developed turbulent pipe flow. *Measurement Science and Technology*, **2003**, 14, 1449-1458	2	46
177	Numerical and Experimental Investigation of Double-Cone Shock Interactions. *AIAA Journal*, **2000**, 38, 2268-2276	2.1	46
176	Flow Visualization **2000**,		45
175	Static pressure correction in high Reynolds number fully developed turbulent pipe flow. *Measurement Science and Technology*, **2002**, 13, 1608-1614	2	44
174	The effects of certain low frequency phenomena on the calibration of hot wires. *Journal of Fluid Mechanics*, **1979**, 90, 415-431	3.7	44
173	Wall-bounded turbulence. *Physics Today*, **2013**, 66, 25-30	0.9	43
172	The intermediate wake of a body of revolution at high Reynolds numbers. *Journal of Fluid Mechanics*, **2010**, 659, 516-539	3.7	43
171	Shock unsteadiness in a reattaching shear layer. *Journal of Fluid Mechanics*, **2001**, 429, 155-185	3.7	43
170	Turbulence Measurements in a Compressible Reattaching Shear Layer. *AIAA Journal*, **1984**, 22, 889-895	2.1	43
169	Flow speed has little impact on propulsive characteristics of oscillating foils. *Physical Review Fluids*, **2018**, 3,	2.8	42
168	Turbulent pipe flow downstream of a bend. *Journal of Fluid Mechanics*, **2013**, 735,	3.7	41
167	Bioinspired Propulsion Mechanisms Based on Manta Ray Locomotion. *Marine Technology Society Journal*, **2011**, 45, 110-118	0.5	41

166	Flowfield measurements in the wake of a robotic lamprey. *Experiments in Fluids*, **2007**, 43, 683-690	2.5	41
165	Turbulent boundary layer relaxation from convex curvature. *Journal of Fluid Mechanics*, **1990**, 211, 529-556	3.7	39
164	Linear instability mechanisms leading to optimally efficient locomotion with flexible propulsors. *Physics of Fluids*, **2014**, 26, 041905	4.4	38
163	Impact of trailing edge shape on the wake and propulsive performance of pitching panels. *Physical Review Fluids*, **2017**, 2,	2.8	38
162	Dynamic stall in vertical axis wind turbines: scaling and topological considerations. *Journal of Fluid Mechanics*, **2018**, 841, 746-766	3.7	37
161	Scaling of the wall-normal turbulence component in high-Reynolds-number pipe flow. *Journal of Fluid Mechanics*, **2007**, 576, 457-473	3.7	36
160	The response to temperature fluctuations of a constant-current hot-wire anemometer. *Journal of Physics E: Scientific Instruments*, **1978**, 11, 909-914		36
159	Role of body stiffness in undulatory swimming: Insights from robotic and computational models. *Physical Review Fluids*, **2016**, 1,	2.8	36
158	Delaying transition in Taylor–Couette flow with axial motion of the inner cylinder. *Journal of Fluid Mechanics*, **1997**, 348, 141-151	3.7	34
157	Effect of periodic blowing on attached and separated supersonic turbulent boundary layers. *AIAA Journal*, **1991**, 29, 1651-1658	2.1	34
156	Scaling of a small scale burner fire whirl. *Combustion and Flame*, **2016**, 163, 202-208	5.3	33
155	Drag reduction on grooved cylinders in the critical Reynolds number regime. *Experimental Thermal and Fluid Science*, **2013**, 48, 15-18	3	33
154	Experimental Investigations of Mach 3 Shock-Wave Turbulent Boundary Layer Interactions **2005**,		33
153	Simultaneous measurement of velocity and temperature fluctuations in the boundary layer of a supersonic flow. *Experimental Thermal and Fluid Science*, **1993**, 7, 221-229	3	33
152	Flow Visualization **2012**,		33
151	A direct measure of the frequency response of hot-wire anemometers: temporal resolution issues in wall-bounded turbulence. *Experiments in Fluids*, **2015**, 56, 1	2.5	32
150	The evolution of large-scale motions in turbulent pipe flow. *Journal of Fluid Mechanics*, **2015**, 779, 701-715	3.7	32
149	The energetic motions in turbulent pipe flow. *Physics of Fluids*, **2014**, 26, 125102	4.4	32

148	Forces and energetics of intermittent swimming. *Acta Mechanica Sinica/Lixue Xuebao*, **2017**, 33, 725-732	2	31
147	Particle response analysis for particle image velocimetry in supersonic flows. *Physics of Fluids*, **2015**, 27, 076101	4.4	29
146	A turbulent flow over a curved hill. Part 2. Effects of streamline curvature and streamwise pressure gradient. *Journal of Fluid Mechanics*, **1991**, 232, 377	3.7	29
145	Nonsinusoidal gaits for unsteady propulsion. *Physical Review Fluids*, **2017**, 2,	2.8	28
144	Hot-wire spatial resolution effects in measurements of grid-generated turbulence. *Experiments in Fluids*, **2012**, 53, 1713-1722	2.5	27
143	Measurement of local dissipation scales in turbulent pipe flow. *Physical Review Letters*, **2009**, 103, 014502	7.4	27
142	Supersonic Turbulent Boundary Layer Subjected to Step Changes in Wall Temperature. *AIAA Journal*, **1997**, 35, 51-57	2.1	27
141	Reynolds number dependence of streamwise velocity spectra in turbulent pipe flow. *Physical Review Letters*, **2002**, 88, 214501	7.4	27
140	. *Journal of Microelectromechanical Systems*, **2014**, 23, 899-907	2.5	26
139	A viscoelastic model of shear-induced hemolysis in laminar flow. *Biorheology*, **2013**, 50, 45-55	1.7	26
138	Reynolds Number Scaling of the Propulsive Performance of a Pitching Airfoil. *AIAA Journal*, **2019**, 57, 2663-2669	2.1	25
137	Scaling of global properties of turbulence and skin friction in pipe and channel flows. *Journal of Fluid Mechanics*, **2010**, 652, 65-73	3.7	25
136	Experimental evidence for Plotkin model of shock unsteadiness in separated flow. *Physics of Fluids*, **2005**, 17, 018107	4.4	25
135	Wavelet Analysis of Wall-Pressure Fluctuations in a Supersonic Blunt-Fin Flow. *AIAA Journal*, **1997**, 35, 1597-1603	2.1	24
134	Effects of trailing edge shape on vortex formation by pitching panels of small aspect ratio. *Physical Review Fluids*, **2019**, 4,	2.8	24
133	Experiments on the structure and scaling of hypersonic turbulent boundary layers. *Journal of Fluid Mechanics*, **2018**, 834, 237-270	3.7	24
132	Measurement of the Flow Field of Fire Whirl. *Fire Technology*, **2016**, 52, 263-272	3	23
131	Three-dimensional structure of a low-Reynolds-number turbulent boundary layer. *Journal of Fluid Mechanics*, **2004**, 512,	3.7	23

130	Transition studies on an elliptic cone in Mach 8 flow using Filtered Rayleigh Scattering. *European Journal of Mechanics, B/Fluids*, **2000**, 19, 695-706	2.4	23
129	Turbulence measurements in a three-dimensional boundary layer in supersonic flow. *Journal of Fluid Mechanics*, **1998**, 372, 1-23	3.7	23
128	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
127	Dynamic calibration and modeling of a cold wire for temperature measurement. *Measurement Science and Technology*, **2013**, 24, 125301	2	22
126	Scaling the circulation shed by a pitching panel. *Journal of Fluid Mechanics*, **2011**, 688, 591-601	3.7	22
125	Effects of transverse helium injection on hypersonic boundary layers. *Physics of Fluids*, **2001**, 13, 3025-3032	4.4	22
124	Errors in parallel-plate and cone-plate rheometer measurements due to sample underfill. *Measurement Science and Technology*, **2015**, 26, 015301	2	20
123	Turbulent Boundary Layers on Bodies of Revolution. *Journal of Ship Research*, **1982**, 26, 135-147	0.9	20
122	Model of accommodation: contributions of lens geometry and mechanical properties to the development of presbyopia. *Journal of Cataract and Refractive Surgery*, **2010**, 36, 1960-71	2.3	19
121	The effects of inflow conditions on vertical axis wind turbine wake structure and performance. *Journal of Wind Engineering and Industrial Aerodynamics*, **2018**, 183, 1-18	3.7	19
120	The Effects of Fins on the Intermediate Wake of a Submarine Model. *Journal of Fluids Engineering, Transactions of the ASME*, **2010**, 132,	2.1	18
119	Evaluation of a universal transitional resistance diagram for pipes with honed surfaces. *Physics of Fluids*, **2005**, 17, 121702	4.4	18
118	Flow visualization of the three-dimensional, time-evolving structure of a turbulent boundary layer. *Physics of Fluids*, **1994**, 6, 577-587	4.4	18
117	Asymmetries in the wake of a submarine model in pitch. *Journal of Fluid Mechanics*, **2015**, 774, 416-442	3.7	17
116	A new criterion for end-conduction effects in hot-wire anemometry. *Measurement Science and Technology*, **2011**, 22, 055401	2	17
115	A study of the effects of curvature and compression on the behavior of a supersonic turbulent boundary layer. *Experiments in Fluids*, **1995**, 18, 363-369	2.5	17
114	Hot-wire Investigation of an Unseparated Shock-VVave/Turbulent Boundary-Layer Interaction. *AIAA Journal*, **1984**, 22, 579-585	2.1	17
113	Scaling Parameters for a Time-Averaged Separation Bubble. *Journal of Fluids Engineering, Transactions of the ASME*, **1982**, 104, 178-184	2.1	17

112	Numerical simulations of the flow around a square pitching panel. *Journal of Fluids and Structures*, **2018**, 76, 454-468	3.1	16
111	The effects of successive distortions on a turbulent boundary layer in a supersonic flow. *Journal of Fluid Mechanics*, **1997**, 351, 253-288	3.7	16
110	Thrust performance of unsteady propulsors using a novel measurement system, and corresponding wake patterns. *Experiments in Fluids*, **2008**, 45, 461-472	2.5	16
109	The response of hot wires in high Reynolds-number turbulent pipe flow. *Measurement Science and Technology*, **2004**, 15, 789-798	2	16
108	Roughness effects in laminar channel flow. *Journal of Fluid Mechanics*, **2019**, 876, 1129-1145	3.7	15
107	Further support for Townsend's Reynolds number similarity hypothesis in high Reynolds number rough-wall pipe flow. *Physics of Fluids*, **2007**, 19, 055109	4.4	15
106	Response to "Scaling of the intermediate region in wall-bounded turbulence: The power law" [Phys. Fluids 10, 1043 (1998)]. *Physics of Fluids*, **1998**, 10, 1045-1046	4.4	15
105	Convection velocity in supersonic turbulent boundary layers. *Physics of Fluids A, Fluid Dynamics*, **1991**, 3, 3124-3126		15
104	Constant temperature hot-wire anemometer practice in supersonic flows. *Experiments in Fluids*, **1984**, 2, 33-41	2.5	15
103	Low Reynolds Number Turbulent Boundary Layers on a Smooth Flat Surface in a Zero Pressure Gradient **1987**, 186-196		15
102	Thrust production by a mechanical swimming lamprey. *Experiments in Fluids*, **2011**, 50, 1349-1355	2.5	14
101	The effect of varying resistance ratio on the behaviour of constant-temperature hot-wire anemometers. *Journal of Physics E: Scientific Instruments*, **1980**, 13, 451-456		14
100	Canonical wall-bounded flows: how do they differ?. *Journal of Fluid Mechanics*, **2015**, 774, 1-4	3.7	13
99	Experimental study of a Neimark–Sacker bifurcation in axially forced Taylor–Couette flow. *Journal of Fluid Mechanics*, **2006**, 558, 1	3.7	13
98	Measurements of the mean heat transfer in a shock wave-turbulent boundary layer interaction. *Experimental Thermal and Fluid Science*, **1996**, 12, 87-97	3	13
97	Wall pressure fluctuations in the reattachment region of a supersonic free shear layer. *Experiments in Fluids*, **1993**, 14, 10-16	2.5	13
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93	Experimental Investigation of Hypersonic Turbulent Boundary Layer **2009**,		12
92	Characterization of the Turbulence Structure in Supersonic Boundary Layers Using DNS Data **2006**,		12
91	Large-Scale Structures in a Compressible Mixing Layer over a Cavity. *AIAA Journal*, **2003**, 41, 2410-2419	2.1	12
90	Effects of hot-wire length on the measurement of turbulent spectra in anisotropic flows. *Measurement Science and Technology*, **2010**, 21, 105407	2	11
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88	The effect of stable thermal stratification on turbulent boundary layer statistics. *Journal of Fluid Mechanics*, **2017**, 812, 1039-1075	3.7	10
87	Structure identification in pipe flow using proper orthogonal decomposition. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2017**, 375,	3	10
86	PIV Experiments on a Rough Wall Hypersonic Turbulent Boundary Layer **2010**,		10
85	Lateral straining of turbulent boundary layers. Part 2. Streamline convergence. *Journal of Fluid Mechanics*, **1997**, 349, 1-30	3.7	10
84	Analysis of Shockwave/Turbulent Boundary Layer Interaction Using DNS and Experimental Data **2005**,		10
83	Effect of short regions of surface curvature on compressible turbulent boundary layers. *AIAA Journal*, **1990**, 28, 113-119	2.1	9
82	A note on hot-wire anemometer measurements of turbulence in the presence of temperature fluctuations. *Journal of Physics E: Scientific Instruments*, **1981**, 14, 311-312		9
81	The effect of blade geometry on the structure of vertical axis wind turbine wakes. *Journal of Wind Engineering and Industrial Aerodynamics*, **2020**, 207, 104328	3.7	9
80	Experimental Investigation of Two Hypersonic Shock/Turbulent Boundary-Layer Interactions. *AIAA Journal*, **2018**, 56, 4830-4844	2.1	9
79	The structure of the wake generated by a submarine model in yaw. *Experiments in Fluids*, **2015**, 56, 1	2.5	8
78	Generating an artificially thickened boundary layer to simulate the neutral atmospheric boundary layer. *Journal of Wind Engineering and Industrial Aerodynamics*, **2015**, 145, 1-16	3.7	8
77	Time-sequenced and spectrally filtered Rayleigh imaging of shock wave and boundary layer structure for inlet characterization **1993**,		8

76	Analysis of a rapidly distorted, supersonic, turbulent boundary layer. *Physics of Fluids A, Fluid Dynamics*, **1989**, 1, 1855-1864		8
75	The inertial subrange in turbulent pipe flow: centreline. *Journal of Fluid Mechanics*, **2016**, 788, 602-613	3.7	8
74	The turbulent wake of a submarine model in pitch and yaw. **2013**,		7
73	Linear stability of two-layer Couette flows. *Journal of Fluid Mechanics*, **2017**, 826, 128-157	3.7	7
72	Effects of Roughness on a Turbulent Bloundary Layer in Hypersonic Flow **2009**,		7
71	Characteristic scales for energetic eddies in turbulent supersonic boundary layers. *Experimental Thermal and Fluid Science*, **1997**, 14, 85-91	3	7
70	Development of NSTAP: Nanoscale Thermal Anemometry Probe **2006**,		7
69	A new calibration method for crossed hot wires. *Measurement Science and Technology*, **2004**, 15, 1926-1931	2	7
68	Turbulence Measurements in Two Shock-Wave/ Shear-Layer Interactions **1983**, 279-288		7
67	Foil shapes for efficient fish-like propulsion **2019**,		6
66	Experiments on the Influence of a Microramp Array on a Hypersonic Shock Turbulent Boundary Layer Interaction **2011**,		6
65	The Effect of Pitching Frequency on the Hydrodynamics of Oscillating Foils. *Journal of Applied Mechanics, Transactions ASME*, **2019**, 86,	2.7	6
64	Reynolds stress scaling in the near-wall region of wall-bounded flows. *Journal of Fluid Mechanics*, **2021**, 926,	3.7	6
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60	The Turbulence Structure of Shockwave and Boundary Layer Interactions in a Compression Corner **2006**,		5
59	Applications of dense gases to model testing for aeronautical and hydrodynamic applications. *Measurement Science and Technology*, **2005**, 16, 1710-1715	2	5

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57	Coherent structures in transitional pipe flow. *Physical Review Fluids*, **2016**, 1,	2.8	5
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55	Self-Sustaining Mechanisms of Wall Turbulence. *Lecture Notes in Physics*, **2001**, 17-38	0.8	5
54	Modelling and operation of sub-miniature constant temperature hot-wire anemometry. *Measurement Science and Technology*, **2016**, 27, 125301	2	4
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52	Comparison of Aero-Optic Distortion in Hypersonic and Transonic, Turbulent Boundary Layers with Gas Injection **2006**,		4
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