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List of Publications by Year in descending order

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141
papers

4,081
citations

136950

32
h-index

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61
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152
all docs

152
docs citations

152
times ranked

1718
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of direct numerical simulation data of turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2010, 659, 116-126.	3.4	690
2	Turbulent boundary layers up to $Re_{\tau}^+=2500$ studied through simulation and experiment. <i>Physics of Fluids</i> , 2009, 21, .	4.0	217
3	Turbulent boundary layers at moderate Reynolds numbers: inflow length and tripping effects. <i>Journal of Fluid Mechanics</i> , 2012, 710, 5-34.	3.4	210
4	Simulation and validation of a spatially evolving turbulent boundary layer up to. <i>International Journal of Heat and Fluid Flow</i> , 2014, 47, 57-69.	2.4	148
5	A new scaling for the streamwise turbulence intensity in wall-bounded turbulent flows and what it tells us about the "outer" peak. <i>Physics of Fluids</i> , 2011, 23, .	4.0	111
6	Quantifying the interaction between large and small scales in wall-bounded turbulent flows: A note of caution. <i>Physics of Fluids</i> , 2010, 22, .	4.0	110
7	History effects and near equilibrium in adverse-pressure-gradient turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2017, 820, 667-692.	3.4	105
8	On the fluctuating wall-shear stress in zero pressure-gradient turbulent boundary layer flows. <i>Physics of Fluids</i> , 2011, 23, .	4.0	101
9	Rare backflow and extreme wall-normal velocity fluctuations in near-wall turbulence. <i>Physics of Fluids</i> , 2012, 24, .	4.0	89
10	Effect of uniform blowing/suction in a turbulent boundary layer at moderate Reynolds number. <i>International Journal of Heat and Fluid Flow</i> , 2015, 55, 132-142.	2.4	89
11	On near wall measurements of wall bounded flows "The necessity of an accurate determination of the wall position. <i>Progress in Aerospace Sciences</i> , 2010, 46, 353-387.	12.1	85
12	Turbulent pipe flow downstream a 90° pipe bend with and without superimposed swirl. <i>International Journal of Heat and Fluid Flow</i> , 2013, 41, 103-111.	2.4	72
13	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.	3.4	71
14	On determining characteristic length scales in pressure-gradient turbulent boundary layers. <i>Physics of Fluids</i> , 2016, 28, .	4.0	71
15	Revival of Classical Vortex Generators Now for Transition Delay. <i>Physical Review Letters</i> , 2012, 109, 074501.	7.8	69
16	Turbulent Flows in Curved Pipes: Recent Advances in Experiments and Simulations. <i>Applied Mechanics Reviews</i> , 2016, 68, .	10.1	65
17	The diagnostic plot " a litmus test for wall bounded turbulence data. <i>European Journal of Mechanics, B/Fluids</i> , 2010, 29, 403-406.	2.5	64
18	Hairpin vortices in turbulent boundary layers. <i>Physics of Fluids</i> , 2015, 27, .	4.0	64

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19	On the near-wall vortical structures at moderate Reynolds numbers. <i>European Journal of Mechanics, B/Fluids</i> , 2014, 48, 75-93.	2.5	62
20	A new formulation for the streamwise turbulence intensity distribution in wall-bounded turbulent flows. <i>European Journal of Mechanics, B/Fluids</i> , 2012, 36, 167-175.	2.5	58
21	On spatial resolution issues related to time-averaged quantities using hot-wire anemometry. <i>Experiments in Fluids</i> , 2010, 49, 101-110.	2.4	51
22	Scaling of streamwise boundary layer streaks and their ability to reduce skin-friction drag. <i>Journal of Fluid Mechanics</i> , 2013, 733, 1-32.	3.4	50
23	Adverse-Pressure-Gradient Effects on Turbulent Boundary Layers: Statistics and Flow-Field Organization. <i>Flow, Turbulence and Combustion</i> , 2017, 99, 589-612.	2.6	48
24	A method to estimate turbulence intensity and transverse Taylor microscale in turbulent flows from spatially averaged hot-wire data. <i>Experiments in Fluids</i> , 2011, 51, 693-700.	2.4	47
25	Reynolds stress scaling in pipe flow turbulence—first results from CICLoPE. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160187.	3.4	47
26	The viscous sublayer revisited—exploiting self-similarity to determine the wall position and friction velocity. <i>Experiments in Fluids</i> , 2011, 51, 271-280.	2.4	45
27	Comparison of experiments and simulations for zero pressure gradient turbulent boundary layers at moderate Reynolds numbers. <i>Experiments in Fluids</i> , 2013, 54, 1.	2.4	44
28	On the identification of well-behaved turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2017, 822, 109-138.	3.4	43
29	Quantification of amplitude modulation in wall-bounded turbulence. <i>Fluid Dynamics Research</i> , 2019, 51, 011408.	1.3	40
30	The three-dimensional structure of swirl-switching in bent pipe flow. <i>Journal of Fluid Mechanics</i> , 2018, 835, 86-101.	3.4	38
31	An Experimental Study of the Near-Field Mixing Characteristics of a Swirling Jet. <i>Flow, Turbulence and Combustion</i> , 2008, 80, 323-350.	2.6	36
32	POD analysis of the turbulent flow downstream a mild and sharp bend. <i>Experiments in Fluids</i> , 2015, 56, 1.	2.4	36
33	Direct numerical simulation of a turbulent 90° bend pipe flow. <i>International Journal of Heat and Fluid Flow</i> , 2018, 73, 199-208.	2.4	33
34	Characterisation of backflow events over a wing section. <i>Journal of Turbulence</i> , 2017, 18, 170-185.	1.4	32
35	Revisiting History Effects in Adverse-Pressure-Gradient Turbulent Boundary Layers. <i>Flow, Turbulence and Combustion</i> , 2017, 99, 565-587.	2.6	32
36	Passive boundary layer control of oblique disturbances by finite-amplitude streaks. <i>Journal of Fluid Mechanics</i> , 2014, 749, 1-36.	3.4	29

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37	Modal instability of the flow in a toroidal pipe. <i>Journal of Fluid Mechanics</i> , 2016, 792, 894-909.	3.4	28
38	Comment on the scaling of the near-wall streamwise variance peak in turbulent pipe flows. <i>Experiments in Fluids</i> , 2013, 54, 1.	2.4	26
39	Combined hot-wire and PIV measurements of a swirling turbulent flow at the exit of a 90° pipe bend. <i>Journal of Visualization</i> , 2016, 19, 261-273.	1.8	26
40	Simulations of turbulent asymptotic suction boundary layers. <i>Journal of Turbulence</i> , 2016, 17, 157-180.	1.4	26
41	Dean vortices in turbulent flows: rocking or rolling?. <i>Journal of Visualization</i> , 2012, 15, 37-38.	1.8	25
42	Uncertainty analysis of the von Kármán constant. <i>Experiments in Fluids</i> , 2013, 54, 1.	2.4	25
43	Plasma Streamwise Vortex Generators for Flow Separation Control on Trucks. <i>Flow, Turbulence and Combustion</i> , 2018, 100, 1101-1109.	2.6	22
44	Reynolds number dependence of large-scale friction control in turbulent channel flow. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	22
45	Consecutive turbulence transition delay with reinforced passive control. <i>Physical Review E</i> , 2014, 89, 061001.	2.1	21
46	On Large-Scale Friction Control in Turbulent Wall Flow in Low Reynolds Number Channels. <i>Flow, Turbulence and Combustion</i> , 2016, 97, 811-827.	2.6	21
47	Experimental investigation of the heat transfer from the helical coil heat exchanger using bubble injection for cold thermal energy storage system. <i>Applied Thermal Engineering</i> , 2022, 200, 117559.	6.0	21
48	Instantaneous wall-shear-stress measurements: advances and application to near-wall extreme events. <i>Measurement Science and Technology</i> , 2020, 31, 112001.	2.6	21
49	Separation control by means of plasma actuation on a half cylinder approached by a turbulent boundary layer. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 145, 318-326.	3.9	20
50	Characterisation of the steady, laminar incompressible flow in toroidal pipes covering the entire curvature range. <i>International Journal of Heat and Fluid Flow</i> , 2017, 66, 95-107.	2.4	20
51	Investigation of the small-scale statistics of turbulence in the Modane S1MA wind tunnel. <i>CEAS Aeronautical Journal</i> , 2018, 9, 269-281.	1.7	20
52	Vortical patterns in turbulent flow downstream a 90° curved pipe at high Womersley numbers. <i>International Journal of Heat and Fluid Flow</i> , 2013, 44, 692-699.	2.4	19
53	Flow separation control behind a cylindrical bump using dielectric-barrier-discharge vortex generator plasma actuators. <i>Journal of Fluid Mechanics</i> , 2018, 835, 852-879.	3.4	19
54	Experimental and theoretical study of swept-wing boundary-layer instabilities. Unsteady crossflow instability. <i>Physics of Fluids</i> , 2019, 31, .	4.0	19

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55	Characterization of very-large-scale motions in high-Re pipe flows. <i>Experimental Thermal and Fluid Science</i> , 2019, 104, 1-8.	2.7	19
56	High-order generalisation of the diagnostic scaling for turbulent boundary layers. <i>Journal of Turbulence</i> , 2016, 17, 664-677.	1.4	18
57	Experimental realisation of near-equilibrium adverse-pressure-gradient turbulent boundary layers. <i>Experimental Thermal and Fluid Science</i> , 2020, 112, 109975.	2.7	18
58	Time-resolved measurements with a vortex flowmeter in a pulsating turbulent flow using wavelet analysis. <i>Measurement Science and Technology</i> , 2010, 21, 123001.	2.6	17
59	Correcting hot-wire spatial resolution effects in third- and fourth-order velocity moments in wall-bounded turbulence. <i>Experiments in Fluids</i> , 2013, 54, 1.	2.4	17
60	Separating adverse-pressure-gradient and Reynolds-number effects in turbulent boundary layers. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	17
61	Drag reduction in spatially developing turbulent boundary layers by spatially intermittent blowing at constant mass-flux. <i>Journal of Turbulence</i> , 2016, 17, 913-929.	1.4	16
62	A flow facility for the characterization of pulsatile flows. <i>Flow Measurement and Instrumentation</i> , 2012, 26, 10-17.	2.0	15
63	Towards a theoretical model of heat transfer for hot-wire anemometry close to solid walls. <i>International Journal of Heat and Fluid Flow</i> , 2017, 68, 248-256.	2.4	15
64	Simulation of a Large-Eddy-Break-up Device (LEBU) in a Moderate Reynolds Number Turbulent Boundary Layer. <i>Flow, Turbulence and Combustion</i> , 2017, 98, 445-460.	2.6	15
65	Backflow events under the effect of secondary flow of Prandtl's first kind. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	14
66	Large-Eddy BreakUp Devices â€œ a 40 Years Perspective from a Stockholm Horizon. <i>Flow, Turbulence and Combustion</i> , 2018, 100, 877-888.	2.6	13
67	Flow separation control by dielectric barrier discharge plasma actuation via pulsed momentum injection. <i>AIP Advances</i> , 2018, 8, .	1.3	13
68	Experimental investigation on the steady and unsteady disturbances in a flat plate boundary layer. <i>Physics of Fluids</i> , 2014, 26, .	4.0	12
69	Experimental and theoretical study of swept-wing boundary-layer instabilities. Three-dimensional Tollmien-Schlichting instability. <i>Physics of Fluids</i> , 2019, 31, 114104.	4.0	12
70	Modal decomposition of flow fields and convective heat transfer maps: An application to wall-proximity square ribs. <i>Experimental Thermal and Fluid Science</i> , 2019, 102, 517-527.	2.7	12
71	Turbulent asymptotic suction boundary layers studied by simulation. <i>Journal of Physics: Conference Series</i> , 2011, 318, 022020.	0.4	11
72	On the scaling of streamwise streaks and their efficiency to attenuate Tollmienâ€™Schlichting waves. <i>Experiments in Fluids</i> , 2015, 56, 1.	2.4	11

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73	Turbulent boundary layers over flat plates and rotating disksâ€”The legacy of von Kármán: A Stockholm perspective. <i>European Journal of Mechanics, B/Fluids</i> , 2013, 40, 17-29.	2.5	10
74	A note on the effect of the separation wall in the initial mixing of coaxial jets. <i>Experiments in Fluids</i> , 2013, 54, 1.	2.4	9
75	Critical Point for Bifurcation Cascades and Featureless Turbulence. <i>Physical Review Letters</i> , 2020, 124, 014501.	7.8	9
76	Thermal anemometry. , 2017, , 257-304.		9
77	Experimental investigation on the effect of pulsations on exhaust manifold-related flows aiming at improved efficiency. , 2012, , 377-387.		8
78	Flow organization in the wake of a rib in a turbulent boundary layer with pressure gradient. <i>Experimental Thermal and Fluid Science</i> , 2019, 108, 115-124.	2.7	8
79	Comment on â€œEvolution of wall shear stress with Reynolds number in fully developed turbulent channel flow experimentsâ€”. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	8
80	Design and Tests of Wind-Tunnel Sidewalls for Receptivity Experiments on a Swept Wing. <i>Applied Mechanics and Materials</i> , 0, 390, 96-102.	0.2	7
81	The influence of temperature fluctuations on hot-wire measurements in wall-bounded turbulence. <i>Experiments in Fluids</i> , 2014, 55, 1.	2.4	7
82	A description of turbulence intensity profiles for boundary layers with adverse pressure gradient. <i>European Journal of Mechanics, B/Fluids</i> , 2020, 84, 470-477.	2.5	7
83	Efficiency assessment of a single surface dielectric barrier discharge plasma actuator with an optimized Suzenâ€”Huang model. <i>Physics of Fluids</i> , 2022, 34, 047110.	4.0	7
84	Large-eddy simulations of adverse pressure gradient turbulent boundary layers. <i>Journal of Physics: Conference Series</i> , 2016, 708, 012012.	0.4	6
85	Influence of a Large-Eddy-Breakup-Device on the Turbulent Interface of Boundary Layers. <i>Flow, Turbulence and Combustion</i> , 2017, 99, 823-835.	2.6	6
86	Techniques for Turbulence Tripping of Boundary Layers in RANS Simulations. <i>Flow, Turbulence and Combustion</i> , 2022, 108, 661-682.	2.6	6
87	Ridge-type roughness: from turbulent channel flow to internal combustion engine. <i>Experiments in Fluids</i> , 2022, 63, 1.	2.4	6
88	Hot-Wire Calibration at Low Velocities: Revisiting the Vortex Shedding Method. <i>Advances in Mechanical Engineering</i> , 2013, 5, 241726.	1.6	5
89	Pulsatile Turbulent Flow in Straight and Curved Pipes â€” Interpretation and Decomposition of Hot-Wire Signals. <i>Flow, Turbulence and Combustion</i> , 2015, 94, 305-321.	2.6	5
90	On determining characteristic length scales in pressure gradient turbulent boundary layers. <i>Journal of Physics: Conference Series</i> , 2016, 708, 012014.	0.4	5

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91	Flow topology of rare back flow events and critical points in turbulent channels and toroidal pipes. Journal of Physics: Conference Series, 2018, 1001, 012002.	0.4	5
92	The skin-friction coefficient of a turbulent boundary layer modified by a large-eddy break-up device. Physics of Fluids, 2021, 33, .	4.0	5
93	Pulsatile turbulent flow through pipe bends at high Dean and Womersley numbers. Journal of Physics: Conference Series, 2011, 318, 092023.	0.4	4
94	Inflow length and tripping effects in turbulent boundary layers. Journal of Physics: Conference Series, 2011, 318, 022018.	0.4	4
95	The life of a vortex in an axisymmetric jet. Journal of Visualization, 2011, 14, 5-6.	1.8	4
96	Characteristics of 3D instability of a 35-degree swept wing to CF and TS modes. Experiment and theory. AIP Conference Proceedings, 2016, , .	0.4	4
97	Near wall coherence in wall-bounded flows and implications for flow control. International Journal of Heat and Fluid Flow, 2020, 86, 108683.	2.4	4
98	Large-scale and small-scale contribution to the skin friction reduction in a modified turbulent boundary layer by a large-eddy break-up device. Physical Review Fluids, 2022, 7, .	2.5	4
99	RANS Modelling of a NACA4412 Wake Using Wind Tunnel Measurements. Fluids, 2022, 7, 153.	1.7	4
100	Mastering nonlinear flow dynamics for laminar flow control. Physical Review E, 2016, 94, 021103.	2.1	3
101	Spanwise boundary layer modulations using finite discrete suction for transition delay. Experiments in Fluids, 2017, 58, 1.	2.4	3
102	Generation of unsteady CF-instability modes by vibrational and vibration-vortex localized receptivity mechanisms. AIP Conference Proceedings, 2018, , .	0.4	3
103	Aerodynamic Free-Flight Conditions in Wind Tunnel Modelling through Reduced-Order Wall Inserts. Fluids, 2021, 6, 265.	1.7	3
104	Spatial resolution issues in rough wall turbulence. Experiments in Fluids, 2022, 63, 1.	2.4	3
105	A method to correct third and fourth order moments in turbulent flows. Journal of Physics: Conference Series, 2011, 318, 042023.	0.4	2
106	Negative streamwise velocities and other rare events near the wall in turbulent flows. Journal of Physics: Conference Series, 2011, 318, 022013.	0.4	2
107	A new formulation for the streamwise turbulence intensity distribution. Journal of Physics: Conference Series, 2011, 318, 022002.	0.4	2
108	Experimental analysis of turbocharger interaction with a pulsatile flow through time-resolved flow measurements upstream and downstream of the turbine. , 2012, , 405-415.		2

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109	Turbulent Boundary-Layer Flow: Comparing Experiments with DNS. Springer Proceedings in Physics, 2012, , 213-216.	0.2	2
110	Turbulent Boundary Layer Upstream, Over and Downstream a Cylindrical 2D Bump. Springer Proceedings in Physics, 2016, , 279-283.	0.2	2
111	Turbulent Pipe Flow Near-Wall Statistics. Springer Proceedings in Physics, 2017, , 89-94.	0.2	2
112	The Diagnostic Plotâ€”A Tutorial withÂaÂTen Year Perspective. Springer Proceedings in Physics, 2021, , 125-135.	0.2	2
113	Turbulence Enhancement in Coaxial Jet Flows by Means of Vortex Shedding. Springer Proceedings in Physics, 2009, , 235-238.	0.2	1
114	Advanced Fluid Research On Drag reduction In Turbulence Experiments â€”AFRODITEâ€”. Journal of Physics: Conference Series, 2011, 318, 032007.	0.4	1
115	Quantitative study of localized mechanisms of excitation of cross-flow instability modes in a swept-wing boundary layer. Journal of Physics: Conference Series, 2018, 1129, 012008.	0.4	1
116	Excitation of 3D TS-waves in a swept-wing boundary layer by surface vibrations and freestream vortices. AIP Conference Proceedings, 2018, , .	0.4	1
117	Experimental evaluation of the mean momentum and kinetic energy balance equations in turbulent pipe flows at high Reynolds number. Journal of Turbulence, 2019, 20, 285-299.	1.4	1
118	Transition to Turbulence Delay Using Miniature Vortex Generators â€” AFRODITE â€”. Springer Proceedings in Physics, 2014, , 71-74.	0.2	1
119	Revisiting the Near-Wall Scaling of the Streamwise Variance in Turbulent Pipe Flows. Springer Proceedings in Physics, 2014, , 113-119.	0.2	1
120	Binormal cooling errors in single hot-wire measurements. Journal of Theoretical and Applied Mechanics, 0, , 305.	0.5	1
121	Unsteady Compressible Flow Calculations with Least-Square Mesh-less Method. Journal of Applied Fluid Mechanics, 2016, 9, 233-241.	0.2	1
122	Inter-scale interaction in pipe flows at high Reynolds numbers. Experimental Thermal and Fluid Science, 2022, 131, 110529.	2.7	1
123	Vibration suppression of a flexible shaft system using indirect adaptive control. , 2013, , .		0
124	The Characteristics of Turbulence in Curved Pipes under Highly Pulsatile Flow Conditions. Springer Proceedings in Physics, 2014, , 183-187.	0.2	0
125	Turbulent Boundary Layers in Long Computational Domains. Springer Proceedings in Physics, 2014, , 91-96.	0.2	0
126	Effects of Uniform Blowing or Suction on the Amplitude Modulation in Spatially Developing Turbulent Boundary Layers. , 2016, , 185-194.		0

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127	Flow visualization of an oblique impinging jet: vortices like it downhill, not uphill. Journal of Visualization, 2016, 19, 7-9.	1.8	0
128	Temperature Effects in Hot-Wire Measurements on Higher-Order Moments in Wall Turbulence. Springer Proceedings in Physics, 2016, , 185-189.	0.2	0
129	Receptivity coefficients of vortex-vibrational type at excitation of 3D Tollmien-Schlichting waves in a boundary layer on a swept wing. AIP Conference Proceedings, 2019, , .	0.4	0
130	On Stability and Transition in Bent Pipes. ERCOFTAC Series, 2019, , 531-536.	0.1	0
131	Passive Scalar Flux Measurements in the Near-Field Region of a Swirling Jet. Heat Transfer Research, 2008, 39, 597-607.	1.6	0
132	The Effect of Oblique Waves on Jet Turbulence. Springer Proceedings in Physics, 2009, , 231-234.	0.2	0
133	The diagnostic plot - a new way to appraise turbulent boundary-layer data. Springer Proceedings in Physics, 2009, , 609-612.	0.2	0
134	Turbulent Boundary Layers in Long Computational Domains. ERCOFTAC Series, 2015, , 267-274.	0.1	0
135	Aeroelastic Analysis of a Typical Section using Euler and Navier-Stokes Mesh-less Method. Scientia Iranica, 2016, 23, 194-205.	0.4	0
136	Scaling of Adverse-Pressure-Gradient Turbulent Boundary Layers in Near-Equilibrium Conditions. Springer Proceedings in Physics, 2017, , 73-78.	0.2	0
137	Transitional and Turbulent Bent Pipes. Springer Proceedings in Physics, 2017, , 81-87.	0.2	0
138	Identifying Well-Behaved Turbulent Boundary Layers. Springer Proceedings in Physics, 2017, , 67-72.	0.2	0
139	Assessment of Wall Vibrations in the Long Pipe Facility at CICLoPE. Springer Proceedings in Physics, 2019, , 203-208.	0.2	0
140	Large-Scale Energy in Turbulent Boundary Layers: Reynolds-Number and Pressure-Gradient Effects. Springer Proceedings in Physics, 2019, , 69-74.	0.2	0
141	10.1063/5.0087395.1., 2022, , .		0