

# R $\tilde{A}$ -rl $\tilde{A}^{1/4}$

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3191684/publications.pdf>

Version: 2024-02-01

141  
papers

4,081  
citations

136950

32  
h-index

123424

61  
g-index

152  
all docs

152  
docs citations

152  
times ranked

1718  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation of the heat transfer from the helical coil heat exchanger using bubble injection for cold thermal energy storage system. Applied Thermal Engineering, 2022, 200, 117559.	6.0	21
2	Techniques for Turbulence Tripping of Boundary Layers in RANS Simulations. Flow, Turbulence and Combustion, 2022, 108, 661-682.	2.6	6
3	Inter-scale interaction in pipe flows at high Reynolds numbers. Experimental Thermal and Fluid Science, 2022, 131, 110529.	2.7	1
4	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
5	Spatial resolution issues in rough wall turbulence. Experiments in Fluids, 2022, 63, 1.	2.4	3
6	Efficiency assessment of a single surface dielectric barrier discharge plasma actuator with an optimized Suzenâ€“Huang model. Physics of Fluids, 2022, 34, 047110.	4.0	7
7	10.1063/5.0087395.1., 2022, , .		0
8	Ridge-type roughness: from turbulent channel flow to internal combustion engine. Experiments in Fluids, 2022, 63, 1.	2.4	6
9	RANS Modelling of a NACA4412 Wake Using Wind Tunnel Measurements. Fluids, 2022, 7, 153.	1.7	4
10	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
11	Aerodynamic Free-Flight Conditions in Wind Tunnel Modelling through Reduced-Order Wall Inserts. Fluids, 2021, 6, 265.	1.7	3
12	The Diagnostic Plotâ€“A Tutorial withâ€“Ten Year Perspective. Springer Proceedings in Physics, 2021, , 125-135.	0.2	2
13	Experimental realisation of near-equilibrium adverse-pressure-gradient turbulent boundary layers. Experimental Thermal and Fluid Science, 2020, 112, 109975.	2.7	18
14	A description of turbulence intensity profiles for boundary layers with adverse pressure gradient. European Journal of Mechanics, B/Fluids, 2020, 84, 470-477.	2.5	7
15	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
16	Critical Point for Bifurcation Cascades and Featureless Turbulence. Physical Review Letters, 2020, 124, 014501.	7.8	9
17	Instantaneous wall-shear-stress measurements: advances and application to near-wall extreme events. Measurement Science and Technology, 2020, 31, 112001.	2.6	21
18	Separating adverse-pressure-gradient and Reynolds-number effects in turbulent boundary layers. Physical Review Fluids, 2020, 5, .	2.5	17

#	ARTICLE	IF	CITATIONS
19	Backflow events under the effect of secondary flow of Prandtl's first kind. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	14
20	Comment on "Evolution of wall shear stress with Reynolds number in fully developed turbulent channel flow experiments". <i>Physical Review Fluids</i> , 2020, 5, .	2.5	8
21	Quantification of amplitude modulation in wall-bounded turbulence. <i>Fluid Dynamics Research</i> , 2019, 51, 011408.	1.3	40
22	Receptivity coefficients of vortex-vibrational type at excitation of 3D Tollmien-Schlichting waves in a boundary layer on a swept wing. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
23	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
24	Experimental and theoretical study of swept-wing boundary-layer instabilities. Unsteady crossflow instability. <i>Physics of Fluids</i> , 2019, 31, .	4.0	19
25	Experimental evaluation of the mean momentum and kinetic energy balance equations in turbulent pipe flows at high Reynolds number. <i>Journal of Turbulence</i> , 2019, 20, 285-299.	1.4	1
26	On Stability and Transition in Bent Pipes. <i>ERCOFTAC Series</i> , 2019, , 531-536.	0.1	0
27	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
28	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
29	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
30	Assessment of Wall Vibrations in the Long Pipe Facility at CICLoPE. <i>Springer Proceedings in Physics</i> , 2019, , 203-208.	0.2	0
31	Large-Scale Energy in Turbulent Boundary Layers: Reynolds-Number and Pressure-Gradient Effects. <i>Springer Proceedings in Physics</i> , 2019, , 69-74.	0.2	0
32	Large-Eddy BreakUp Devices " a 40 Years Perspective from a Stockholm Horizon. <i>Flow, Turbulence and Combustion</i> , 2018, 100, 877-888.	2.6	13
33	Plasma Streamwise Vortex Generators for Flow Separation Control on Trucks. <i>Flow, Turbulence and Combustion</i> , 2018, 100, 1101-1109.	2.6	22
34	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
35	The three-dimensional structure of swirl-switching in bent pipe flow. <i>Journal of Fluid Mechanics</i> , 2018, 835, 86-101.	3.4	38
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	Generation of unsteady CF-instability modes by vibrational and vibration-vortex localized receptivity mechanisms. AIP Conference Proceedings, 2018, , .	0.4	3
39	Excitation of 3D TS-waves in a swept-wing boundary layer by surface vibrations and freestream vortices. AIP Conference Proceedings, 2018, , .	0.4	1
40	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
41	Direct numerical simulation of a turbulent 90° bend pipe flow. International Journal of Heat and Fluid Flow, 2018, 73, 199-208.	2.4	33
42	Flow separation control by dielectric barrier discharge plasma actuation via pulsed momentum injection. AIP Advances, 2018, 8, .	1.3	13
43	Reynolds stress scaling in pipe flow turbulence—first results from CICLoPE. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160187.	3.4	47
44	Characterisation of backflow events over a wing section. Journal of Turbulence, 2017, 18, 170-185.	1.4	32
45	On the identification of well-behaved turbulent boundary layers. Journal of Fluid Mechanics, 2017, 822, 109-138.	3.4	43
46	Characterisation of the steady, laminar incompressible flow in toroidal pipes covering the entire curvature range. International Journal of Heat and Fluid Flow, 2017, 66, 95-107.	2.4	20
47	Towards a theoretical model of heat transfer for hot-wire anemometry close to solid walls. International Journal of Heat and Fluid Flow, 2017, 68, 248-256.	2.4	15
48	History effects and near equilibrium in adverse-pressure-gradient turbulent boundary layers. Journal of Fluid Mechanics, 2017, 820, 667-692.	3.4	105
49	Revisiting History Effects in Adverse-Pressure-Gradient Turbulent Boundary Layers. Flow, Turbulence and Combustion, 2017, 99, 565-587.	2.6	32
50	Adverse-Pressure-Gradient Effects on Turbulent Boundary Layers: Statistics and Flow-Field Organization. Flow, Turbulence and Combustion, 2017, 99, 589-612.	2.6	48
51	Turbulent Pipe Flow Near-Wall Statistics. Springer Proceedings in Physics, 2017, , 89-94.	0.2	2
52	Spanwise boundary layer modulations using finite discrete suction for transition delay. Experiments in Fluids, 2017, 58, 1.	2.4	3
53	Simulation of a Large-Eddy-Break-up Device (LEBU) in a Moderate Reynolds Number Turbulent Boundary Layer. Flow, Turbulence and Combustion, 2017, 98, 445-460.	2.6	15
54	Influence of a Large-Eddy-Breakup-Device on the Turbulent Interface of Boundary Layers. Flow, Turbulence and Combustion, 2017, 99, 823-835.	2.6	6

#	ARTICLE	IF	CITATIONS
55	Thermal anemometry. , 2017, , 257-304.		9
56	Scaling of Adverse-Pressure-Gradient Turbulent Boundary Layers in Near-Equilibrium Conditions. Springer Proceedings in Physics, 2017, , 73-78.	0.2	0
57	Transitional and Turbulent Bent Pipes. Springer Proceedings in Physics, 2017, , 81-87.	0.2	0
58	Identifying Well-Behaved Turbulent Boundary Layers. Springer Proceedings in Physics, 2017, , 67-72.	0.2	0
59	On determining characteristic length scales in pressure gradient turbulent boundary layers. Journal of Physics: Conference Series, 2016, 708, 012014.	0.4	5
60	Turbulent Flows in Curved Pipes: Recent Advances in Experiments and Simulations. Applied Mechanics Reviews, 2016, 68, .	10.1	65
61	Large-eddy simulations of adverse pressure gradient turbulent boundary layers. Journal of Physics: Conference Series, 2016, 708, 012012.	0.4	6
62	On determining characteristic length scales in pressure-gradient turbulent boundary layers. Physics of Fluids, 2016, 28, .	4.0	71
63	On Large-Scale Friction Control in Turbulent Wall Flow in Low Reynolds Number Channels. Flow, Turbulence and Combustion, 2016, 97, 811-827.	2.6	21
64	Modal instability of the flow in a toroidal pipe. Journal of Fluid Mechanics, 2016, 792, 894-909.	3.4	28
65	Combined hot-wire and PIV measurements of a swirling turbulent flow at the exit of a 90° pipe bend. Journal of Visualization, 2016, 19, 261-273.	1.8	26
66	High-order generalisation of the diagnostic scaling for turbulent boundary layers. Journal of Turbulence, 2016, 17, 664-677.	1.4	18
67	Effects of Uniform Blowing or Suction on the Amplitude Modulation in Spatially Developing Turbulent Boundary Layers. , 2016, , 185-194.		0
68	Mastering nonlinear flow dynamics for laminar flow control. Physical Review E, 2016, 94, 021103.	2.1	3
69	Drag reduction in spatially developing turbulent boundary layers by spatially intermittent blowing at constant mass-flux. Journal of Turbulence, 2016, 17, 913-929.	1.4	16
70	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
71	Flow visualization of an oblique impinging jet: vortices like it downhill, not uphill. Journal of Visualization, 2016, 19, 7-9.	1.8	0
72	Simulations of turbulent asymptotic suction boundary layers. Journal of Turbulence, 2016, 17, 157-180.	1.4	26

#	ARTICLE	IF	CITATIONS
73	Temperature Effects in Hot-Wire Measurements on Higher-Order Moments in Wall Turbulence. Springer Proceedings in Physics, 2016, , 185-189.	0.2	0
74	Turbulent Boundary Layer Upstream, Over and Downstream a Cylindrical 2D Bump. Springer Proceedings in Physics, 2016, , 279-283.	0.2	2
75	Reynolds number dependence of large-scale friction control in turbulent channel flow. Physical Review Fluids, 2016, 1, .	2.5	22
76	Aeroelastic Analysis of a Typical Section using Euler and Navier-Stokes Mesh-less Method. Scientia Iranica, 2016, 23, 194-205.	0.4	0
77	Unsteady Compressible Flow Calculations with Least-Square Mesh-less Method. Journal of Applied Fluid Mechanics, 2016, 9, 233-241.	0.2	1
78	Effect of uniform blowing/suction in a turbulent boundary layer at moderate Reynolds number. International Journal of Heat and Fluid Flow, 2015, 55, 132-142.	2.4	89
79	Hairpin vortices in turbulent boundary layers. Physics of Fluids, 2015, 27, .	4.0	64
80	POD analysis of the turbulent flow downstream a mild and sharp bend. Experiments in Fluids, 2015, 56, 1.	2.4	36
81	On the scaling of streamwise streaks and their efficiency to attenuate Tollmienâ€“Schlichting waves. Experiments in Fluids, 2015, 56, 1.	2.4	11
82	Separation control by means of plasma actuation on a half cylinder approached by a turbulent boundary layer. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 145, 318-326.	3.9	20
83	Pulsatile Turbulent Flow in Straight and Curved Pipes â€“ Interpretation and Decomposition of Hot-Wire Signals. Flow, Turbulence and Combustion, 2015, 94, 305-321.	2.6	5
84	Turbulent Boundary Layers in Long Computational Domains. ERCOFTAC Series, 2015, , 267-274.	0.1	0
85	Experimental investigation on the steady and unsteady disturbances in a flat plate boundary layer. Physics of Fluids, 2014, 26, .	4.0	12
86	Consecutive turbulence transition delay with reinforced passive control. Physical Review E, 2014, 89, 061001.	2.1	21
87	The Characteristics of Turbulence in Curved Pipes under Highly Pulsatile Flow Conditions. Springer Proceedings in Physics, 2014, , 183-187.	0.2	0
88	Passive boundary layer control of oblique disturbances by finite-amplitude streaks. Journal of Fluid Mechanics, 2014, 749, 1-36.	3.4	29
89	Simulation and validation of a spatially evolving turbulent boundary layer up to. International Journal of Heat and Fluid Flow, 2014, 47, 57-69.	2.4	148
90	On the near-wall vortical structures at moderate Reynolds numbers. European Journal of Mechanics, B/Fluids, 2014, 48, 75-93.	2.5	62

#	ARTICLE	IF	CITATIONS
91	Turbulent Boundary Layers in Long Computational Domains. Springer Proceedings in Physics, 2014, , 91-96.	0.2	0
92	The influence of temperature fluctuations on hot-wire measurements in wall-bounded turbulence. Experiments in Fluids, 2014, 55, 1.	2.4	7
93	Transition to Turbulence Delay Using Miniature Vortex Generators "AFRODITE". Springer Proceedings in Physics, 2014, , 71-74.	0.2	1
94	Revisiting the Near-Wall Scaling of the Streamwise Variance in Turbulent Pipe Flows. Springer Proceedings in Physics, 2014, , 113-119.	0.2	1
95	Turbulent boundary layers over flat plates and rotating disks"The legacy of von Kármán: A Stockholm perspective. European Journal of Mechanics, B/Fluids, 2013, 40, 17-29.	2.5	10
96	A note on the effect of the separation wall in the initial mixing of coaxial jets. Experiments in Fluids, 2013, 54, 1.	2.4	9
97	Correcting hot-wire spatial resolution effects in third- and fourth-order velocity moments in wall-bounded turbulence. Experiments in Fluids, 2013, 54, 1.	2.4	17
98	Scaling of streamwise boundary layer streaks and their ability to reduce skin-friction drag. Journal of Fluid Mechanics, 2013, 733, 1-32.	3.4	50
99	Vortical patterns in turbulent flow downstream a 90° curved pipe at high Womersley numbers. International Journal of Heat and Fluid Flow, 2013, 44, 692-699.	2.4	19
100	Comment on the scaling of the near-wall streamwise variance peak in turbulent pipe flows. Experiments in Fluids, 2013, 54, 1.	2.4	26
101	Comparison of experiments and simulations for zero pressure gradient turbulent boundary layers at moderate Reynolds numbers. Experiments in Fluids, 2013, 54, 1.	2.4	44
102	Uncertainty analysis of the von Kármán constant. Experiments in Fluids, 2013, 54, 1.	2.4	25
103	Turbulent pipe flow downstream a 90° pipe bend with and without superimposed swirl. International Journal of Heat and Fluid Flow, 2013, 41, 103-111.	2.4	72
104	Vibration suppression of a flexible shaft system using indirect adaptive control. , 2013, , .		0
105	Obtaining accurate mean velocity measurements in high Reynolds number turbulent boundary layers using Pitot tubes. Journal of Fluid Mechanics, 2013, 715, 642-670.	3.4	71
106	Hot-Wire Calibration at Low Velocities: Revisiting the Vortex Shedding Method. Advances in Mechanical Engineering, 2013, 5, 241726.	1.6	5
107	Experimental investigation on the effect of pulsations on exhaust manifold-related flows aiming at improved efficiency. , 2012, , 377-387.		8
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

#	ARTICLE	IF	CITATIONS
109	Rare backflow and extreme wall-normal velocity fluctuations in near-wall turbulence. <i>Physics of Fluids</i> , 2012, 24, .	4.0	89
110	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
111	Turbulent Boundary-Layer Flow: Comparing Experiments with DNS. <i>Springer Proceedings in Physics</i> , 2012, , 213-216.	0.2	2
112	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
113	A flow facility for the characterization of pulsatile flows. <i>Flow Measurement and Instrumentation</i> , 2012, 26, 10-17.	2.0	15
114	Revival of Classical Vortex Generators Now for Transition Delay. <i>Physical Review Letters</i> , 2012, 109, 074501.	7.8	69
115	Dean vortices in turbulent flows: rocking or rolling?. <i>Journal of Visualization</i> , 2012, 15, 37-38.	1.8	25
116	On the fluctuating wall-shear stress in zero pressure-gradient turbulent boundary layer flows. <i>Physics of Fluids</i> , 2011, 23, .	4.0	101
117	Pulsatile turbulent flow through pipe bends at high Dean and Womersley numbers. <i>Journal of Physics: Conference Series</i> , 2011, 318, 092023.	0.4	4
118	A method to correct third and fourth order moments in turbulent flows. <i>Journal of Physics: Conference Series</i> , 2011, 318, 042023.	0.4	2
119	Inflow length and tripping effects in turbulent boundary layers. <i>Journal of Physics: Conference Series</i> , 2011, 318, 022018.	0.4	4
120	Turbulent asymptotic suction boundary layers studied by simulation. <i>Journal of Physics: Conference Series</i> , 2011, 318, 022020.	0.4	11
121	Negative streamwise velocities and other rare events near the wall in turbulent flows. <i>Journal of Physics: Conference Series</i> , 2011, 318, 022013.	0.4	2
122	Advanced Fluid Research On Drag reduction In Turbulence Experiments â€œAFRODITEâ€œ. <i>Journal of Physics: Conference Series</i> , 2011, 318, 032007.	0.4	1
123	A new formulation for the streamwise turbulence intensity distribution. <i>Journal of Physics: Conference Series</i> , 2011, 318, 022002.	0.4	2
124	The viscous sublayer revisitedâ€œexploiting self-similarity to determine the wall position and friction velocity. <i>Experiments in Fluids</i> , 2011, 51, 271-280.	2.4	45
125	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
126	The life of a vortex in an axisymmetric jet. <i>Journal of Visualization</i> , 2011, 14, 5-6.	1.8	4



#	ARTICLE	IF	CITATIONS
127	A new scaling for the streamwise turbulence intensity in wall-bounded turbulent flows and what it tells us about the "outer" peak. Physics of Fluids, 2011, 23, .	4.0	111
128	On spatial resolution issues related to time-averaged quantities using hot-wire anemometry. Experiments in Fluids, 2010, 49, 101-110.	2.4	51
129	On near wall measurements of wall bounded flows "The necessity of an accurate determination of the wall position. Progress in Aerospace Sciences, 2010, 46, 353-387.	12.1	85
130	The diagnostic plot " a litmus test for wall bounded turbulence data. European Journal of Mechanics, B/Fluids, 2010, 29, 403-406.	2.5	64
131	Assessment of direct numerical simulation data of turbulent boundary layers. Journal of Fluid Mechanics, 2010, 659, 116-126.	3.4	690
132	Quantifying the interaction between large and small scales in wall-bounded turbulent flows: A note of caution. Physics of Fluids, 2010, 22, .	4.0	110
133	Time-resolved measurements with a vortex flowmeter in a pulsating turbulent flow using wavelet analysis. Measurement Science and Technology, 2010, 21, 123001.	2.6	17
134	Turbulence Enhancement in Coaxial Jet Flows by Means of Vortex Shedding. Springer Proceedings in Physics, 2009, , 235-238.	0.2	1
135	Turbulent boundary layers up to $Re_{\tau}=2500$ studied through simulation and experiment. Physics of Fluids, 2009, 21, .	4.0	217
136	The Effect of Oblique Waves on Jet Turbulence. Springer Proceedings in Physics, 2009, , 231-234.	0.2	0
137	The diagnostic plot - a new way to appraise turbulent boundary-layer data. Springer Proceedings in Physics, 2009, , 609-612.	0.2	0
138	An Experimental Study of the Near-Field Mixing Characteristics of a Swirling Jet. Flow, Turbulence and Combustion, 2008, 80, 323-350.	2.6	36
139	Passive Scalar Flux Measurements in the Near-Field Region of a Swirling Jet. Heat Transfer Research, 2008, 39, 597-607.	1.6	0
140	Design and Tests of Wind-Tunnel Sidewalls for Receptivity Experiments on a Swept Wing. Applied Mechanics and Materials, 0, 390, 96-102.	0.2	7
141	Binormal cooling errors in single hot-wire measurements. Journal of Theoretical and Applied Mechanics, 0, , 305.	0.5	1