Lyazid

List of Publications by Year in Descending Order

132 papers	2,038 citations	23 h-index	40 g-index
143 ext. papers	2,300 ext. citations	2.8 avg, IF	5.06 L-index

#	Paper	IF	Citations
132	Outer turbulent boundary layer similarities for different 2D surface roughnesses at matched Reynolds number. *International Journal of Heat and Fluid Flow*, **2022**, 94, 108940	2.4	1
131	Flow characterization in the uphill region of pulsed oblique round jet. *Physics of Fluids*, **2022**, 34, 035113	4.4	
130	Reynolds number effect on the response of a rough wall turbulent boundary layer to local wall suction. *Journal of Fluid Mechanics*, **2021**, 916,	3.7	2
129	Sensitivity analysis of the second and third-order velocity structure functions to the Reynolds number in decaying and forced isotropic turbulence using the EDQNM model. *European Journal of Mechanics, B/Fluids*, **2021**, 88, 229-242	2.4	0
128	Spatial resolution effects on measurements in a rough wall turbulent boundary layer. *Experiments in Fluids*, **2021**, 62, 1	2.5	3
127	Combined effect of roughness and suction on heat transfer in a laminar channel flow. *International Communications in Heat and Mass Transfer*, **2021**, 126, 105377	5.8	0
126	Mathematical constraints on the scaling exponents in the inertial range of fluid turbulence. *Physics of Fluids*, **2021**, 33, 031703	4.4	4
125	Effect of pulsation on the wall jet flow in the near region of an impinging jet. *Experiments in Fluids*, **2021**, 62, 1	2.5	2
124	Modeling the third-order velocity structure function in the scaling range at finite Reynolds numbers. *Journal of Mathematical Physics*, **2021**, 62, 083102	1.2	0
123	Study of the interaction of two decaying grid-generated turbulent flows. *Physics of Fluids*, **2021**, 33, 095122	4.4	4
122	Dynamics of wall jet flow under external pulsation. *Physics of Fluids*, **2021**, 33, 095103	4.4	1
121	Estimation of mean turbulent kinetic energy and temperature variance dissipation rates using a spectral chart method. *Physics of Fluids*, **2020**, 32, 055109	4.4	1
120	Assessment of large-scale forcing in isotropic turbulence using a closed K□m□□Howarth equation. *Physics of Fluids*, **2020**, 32, 055104	4.4	2
119	Scaling of the turbulent energy dissipation correlation function. *Journal of Fluid Mechanics*, **2020**, 891,	3.7	4
118	Experimental study of flow characteristics of an oblique impinging jet. *Experiments in Fluids*, **2020**, 61, 1	2.5	10
117	Roughness effect in an initially laminar channel flow. *Journal of Fluid Mechanics*, **2020**, 892,	3.7	4
116	Scale invariance in finite Reynolds number homogeneous isotropic turbulence. *Journal of Fluid Mechanics*, **2019**, 864, 244-272	3.7	9

115	A velocity defect chart method for estimating the friction velocity in turbulent boundary layers. *Fluid Dynamics Research*, **2019**, 51, 045502	1.2	5
114	An empirical expression for on the axis of a slightly heated turbulent round jet. *Journal of Fluid Mechanics*, **2019**, 867, 392-413	3.7	1
113	K41 Versus K62: Recent Developments. *Lecture Notes in Mechanical Engineering*, **2019**, 3-14	0.4	1
112	Can small-scale turbulence approach a quasi-universal state?. *Physical Review Fluids*, **2019**, 4,	2.8	4
111	Finite Reynolds number effect and the 4/5 law. *Physical Review Fluids*, **2019**, 4,	2.8	12
110	Electroosmotic Effects on Rough Wall Micro-channel Flow. *Advances in Intelligent Systems and Computing*, **2019**, 623-630	0.4	
109	Effects of wall suction on a 2D rough wall turbulent boundary layer. *Experiments in Fluids*, **2019**, 60, 1	2.5	4
108	Can a turbulent boundary layer become independent of the Reynolds number?. *Journal of Fluid Mechanics*, **2018**, 851, 1-22	3.7	7
107	Bypass transition mechanism in a rough wall channel flow. *Physical Review Fluids*, **2018**, 3,	2.8	3
106	Behaviour of the energy dissipation coefficient in a rough wall turbulent boundary layer. *Experiments in Fluids*, **2018**, 59, 1	2.5	5
105	Reynolds number effect on the velocity derivative flatness factor. *Journal of Fluid Mechanics*, **2018**, 856, 426-443	3.7	4
104	Reappraisal of the velocity derivative flatness factor in various turbulent flows. *Journal of Fluid Mechanics*, **2018**, 847, 244-265	3.7	14
103	Secondary vortex street in the intermediate wake of a circular cylinder. *Experiments in Fluids*, **2018**, 59, 1	2.5	1
102	Small scale turbulence and the finite Reynolds number effect. *Physics of Fluids*, **2017**, 29, 020715	4.4	22
101	Finite Reynolds number effect on the scaling range behaviour of turbulent longitudinal velocity structure functions. *Journal of Fluid Mechanics*, **2017**, 820, 341-369	3.7	16
100	On the normalized dissipation parameter in decaying turbulence. *Journal of Fluid Mechanics*, **2017**, 817, 61-79	3.7	23
99	A note on the velocity derivative flatness factor in decaying HIT. *Physics of Fluids*, **2017**, 29, 051702	4.4	5
98	Self-preservation relation to the Kolmogorov similarity hypotheses. *Physical Review Fluids*, **2017**, 2,	2.8	8

97	Skewness and flatness factors of the longitudinal velocity derivative in wall-bounded flows. *Physical Review Fluids*, **2017**, 2,	2.8	11
96	Towards local isotropy of higher-order statistics in the intermediate wake. *Experiments in Fluids*, **2016**, 57, 1	2.5	1
95	Turbulent Kinetic Energy Budget in the Far Field of a Square Cylinder Wake. *Lecture Notes in Mechanical Engineering*, **2016**, 169-174	0.4	
94	Turbulent Sheared Mixing Layer Generated with a Composite Grid. *Lecture Notes in Mechanical Engineering*, **2016**, 283-288	0.4	
93	Towards Local Isotropy of Higher Order Statistics in Wakes. *Springer Proceedings in Physics*, **2016**, 119-124	0.2	
92	Boundedness of the mixed velocity-temperature derivative skewness in homogeneous isotropic turbulence. *Physics of Fluids*, **2016**, 28, 095102	4.4	2
91	Complete self-preservation along the axis of a circular cylinder far wake. *Journal of Fluid Mechanics*, **2016**, 786, 253-274	3.7	11
90	Self-preservation in a zero pressure gradient rough-wall turbulent boundary layer. *Journal of Fluid Mechanics*, **2016**, 788, 57-69	3.7	11
89	Complete self-preservation on the axis of a turbulent round jet. *Journal of Fluid Mechanics*, **2016**, 790, 57-70	3.7	16
88	Scale-by-scale energy budget in a turbulent boundary layer over a rough wall. *International Journal of Heat and Fluid Flow*, **2015**, 55, 2-8	2.4	4
87	Drag of a turbulent boundary layer with transverse 2D circular rods on the wall. *Experiments in Fluids*, **2015**, 56, 1	2.5	12
86	The lattice Boltzmann method and the problem of turbulence **2015**,		1
85	Comparison between velocity- and vorticity-based POD methods in a turbulent wake. *Experiments in Fluids*, **2015**, 56, 1	2.5	9
84	A general self-preservation analysis for decaying homogeneous isotropic turbulence. *Journal of Fluid Mechanics*, **2015**, 773, 345-365	3.7	16
83	Transport equation for the mean turbulent energy dissipation rate on the centreline of a fully developed channel flow. *Journal of Fluid Mechanics*, **2015**, 777, 151-177	3.7	17
82	Heat transfer in a turbulent channel flow with square bars or circular rods on one wall. *Journal of Fluid Mechanics*, **2015**, 776, 512-530	3.7	21
81	Power-law exponent in the transition period of decay in grid turbulence. *Journal of Fluid Mechanics*, **2015**, 779, 544-555	3.7	24
80	Boundedness of the velocity derivative skewness in various turbulent flows. *Journal of Fluid Mechanics*, **2015**, 781, 727-744	3.7	31

79	Transport equation for the isotropic turbulent energy dissipation rate in the far-wake of a circular cylinder. *Journal of Fluid Mechanics*, **2015**, 784, 109-129	3.7	17
78	Collapse of the turbulent dissipative range on Kolmogorov scales. *Physics of Fluids*, **2014**, 26, 045105	4.4	26
77	Breakdown of Kolmogorovs first similarity hypothesis in grid turbulence. *Journal of Turbulence*, **2014**, 15, 596-610	2.1	12
76	On self-preservation and log-similarity in a slightly heated axisymmetric mixing layer. *Physics of Fluids*, **2014**, 26, 075106	4.4	4
75	Use of PIV to highlight possible errors in hot-wire Reynolds stress data over a 2D rough wall. *Experiments in Fluids*, **2014**, 55, 1	2.5	3
74	Transport equation for the mean turbulent energy dissipation rate in low- grid turbulence. *Journal of Fluid Mechanics*, **2014**, 747, 288-315	3.7	9
73	Consequences of self-preservation on the axis of a turbulent round jet. *Journal of Fluid Mechanics*, **2014**, 748,	3.7	31
72	Effects of Low Reynolds Number on Decay Exponent in Grid Turbulence. *Procedia Engineering*, **2014**, 90, 327-332		1
71	Statistics of the turbulent kinetic energy dissipation rate and its surrogates in a square cylinder wake flow. *Physics of Fluids*, **2014**, 26, 095104	4.4	8
70	Empirical Correlations for Slightly Heated Decaying Passive-Grid Turbulence. *Heat Transfer Engineering*, **2014**, 35, 1482-1490	1.7	1
69	Wake Manipulation Using Control Cylinders in a Tandem Arrangement. *Lecture Notes in Mechanical Engineering*, **2014**, 161-166	0.4	
68	K□m□-Howarth closure equation on the basis of a universal eddy viscosity. *Physical Review E*, **2013**, 88, 011003	2.4	16
67	The Effects of Magnetic Field on the Fluid Flow through a Rotating Straight Duct with Large Aspect Ratio. *Procedia Engineering*, **2013**, 56, 239-244		1
66	Relationship between temporal and spatial averages in grid turbulence. *Journal of Fluid Mechanics*, **2013**, 730, 593-606	3.7	12
65	On the destruction coefficients for slightly heated decaying grid turbulence. *International Journal of Heat and Fluid Flow*, **2013**, 43, 129-136	2.4	14
64	Invariants for slightly heated decaying grid turbulence. *Journal of Fluid Mechanics*, **2013**, 727, 379-406	3.7	13
63	Effect of Mesh Grids on the Turbulent Mixing Layer of an Axisymmetric Jet. *Heat Transfer Engineering*, **2013**, 34, 1216-1225	1.7	4
62	Decay of passive-scalar fluctuations in slightly stretched grid turbulence. *Experiments in Fluids*, **2012**, 53, 909-923	2.5	5

61	A spectral chart method for estimating the mean turbulent kinetic energy dissipation rate. *Experiments in Fluids*, **2012**, 53, 1005-1013	2.5	20
60	On the anisotropy of a low-Reynolds-number grid turbulence. *Journal of Fluid Mechanics*, **2012**, 702, 332-353	3.7	14
59	Scaling range of velocity and passive scalar spectra in grid turbulence. *Physics of Fluids*, **2012**, 24, 075101	4.4	9
58	Momentum and scalar transport in a localised synthetic turbulence in a channel flow with a short contraction. *Journal of Physics: Conference Series*, **2011**, 318, 052047	0.3	
57	Spectrum of a passive scalar in stretched grid turbulence at low Reynolds numbers. *Journal of Physics: Conference Series*, **2011**, 318, 052046	0.3	1
56	On the Outer Layer Controversy for a Turbulent Boundary Layer over a Rough Wall. *IUTAM Symposium on Cellular, Molecular and Tissue Mechanics*, **2010**, 77-86	0.3	4
55	Effect of a small axisymmetric contraction on grid turbulence. *Experiments in Fluids*, **2010**, 49, 3-10	2.5	11
54	Near-field measurements and development of a new boundary layer over a flat plate with localized suction. *Experiments in Fluids*, **2010**, 48, 747-762	2.5	2
53	POD Analysis of the Near-Wall Region of a Rough Wall Turbulent Boundary Layer. *IUTAM Symposium on Cellular, Molecular and Tissue Mechanics*, **2010**, 49-54	0.3	0
52	Lattice Boltzmann Simulation of Pulsed Jet in T-Shaped Micromixer. *IUTAM Symposium on Cellular, Molecular and Tissue Mechanics*, **2009**, 167-174	0.3	
51	Momentum and heat transport in a three-dimensional transitional wake of a heated square cylinder. *Journal of Fluid Mechanics*, **2009**, 640, 109-129	3.7	17
50	Simulation of gas flow in microchannels with a single bend. *Computers and Fluids*, **2009**, 38, 1629-1637	2.8	23
49	Anisotropy measurements in the boundary layer over a flat plate with suction. *Experimental Thermal and Fluid Science*, **2009**, 33, 1106-1111	3	6
48	Structure of a turbulent crossbar near-wake studied by means of lattice Boltzmann simulation. *Physical Review E*, **2008**, 77, 036310	2.4	10
47	Effects of initial conditions in decaying turbulence generated by passive grids. *Journal of Fluid Mechanics*, **2007**, 585, 395-420	3.7	128
46	Examination of anisotropy of the small-scale motion in a perturbed low Reynolds number turbulent boundary layer. *Experimental Thermal and Fluid Science*, **2007**, 32, 309-315	3	1
45	Influence of localised double suction on a turbulent boundary layer. *Journal of Fluids and Structures*, **2007**, 23, 787-798	3.1	6
44	A turbulent boundary layer over a two-dimensional rough wall. *Experiments in Fluids*, **2007**, 44, 37-47	2.5	46

43	Response of mean turbulent energy dissipation rate and spectra to concentrated wall suction. *Experiments in Fluids*, **2007**, 44, 159-165	2.5	3
42	Near-Wake Decaying Turbulence Behind a Cross-bar **2007**, 633-635		
41	Microfluidic characteristics of a multi-holed baffle plate micro-reactor. *International Journal of Heat and Fluid Flow*, **2006**, 27, 1069-1077	2.4	20
40	Power law of decaying homogeneous isotropic turbulence at low Reynolds number. *Physical Review E*, **2006**, 73, 066304	2.4	37
39	Numerical investigation of laminar mixing in a coaxial microreactor. *Journal of Fluid Mechanics*, **2006**, 568, 223	3.7	12
38	Lattice-Boltzmann simulation of grid-generated turbulence. *Journal of Fluid Mechanics*, **2006**, 552, 13	3.7	50
37	Investigation of flow around a pair of side-by-side square cylinders using the lattice Boltzmann method. *Computers and Fluids*, **2006**, 35, 1093-1107	2.8	104
36	Guidelines for Modeling a 2D Rough Wall Channel Flow. *Flow, Turbulence and Combustion*, **2006**, 77, 41-57	2.5	8
35	Simulation of gas flow in microchannels with a sudden expansion or contraction. *Journal of Fluid Mechanics*, **2005**, 530, 135-144	3.7	62
34	Effect of initial conditions on decaying grid turbulence at low R *Experiments in Fluids*, **2005**, 39, 865-874	2.5	36
33	Spanwise vorticity measurements in a perturbed boundary layer. *Experiments in Fluids*, **2005**, 39, 152-155	2.5	1
32	Measurements Over a Flat Plate With and Without Suction **2005**, 121-124		
31	Effect of a 2-D Rough Wall on the Anisotropy of a Turbulent Channel Flow **2005**, 207-216		
30	Velocity and Passive Scalar Characteristics in a Round Jet with Grids at the Nozzle Exit. *Flow, Turbulence and Combustion*, **2004**, 72, 199-218	2.5	19
29	Structure of turbulent channel flow with square bars on one wall. *International Journal of Heat and Fluid Flow*, **2004**, 25, 384-392	2.4	90
28	LIF based detection of low-speed streaks. *Experiments in Fluids*, **2004**, 36, 600-603	2.5	4
27	Influence of localised wall suction on the anisotropy of the Reynolds stress tensor in a turbulent boundary layer. *Experiments in Fluids*, **2004**, 37, 187-193	2.5	24
26	Combined influence of the Reynolds number and localised wall suction on a turbulent boundary layer. *Experiments in Fluids*, **2003**, 35, 199-206	2.5	28

25	Direct numerical simulations of turbulent channel flow with transverse square bars on one wall. *Journal of Fluid Mechanics*, **2003**, 491, 229-238	3.7	267
24	Reynolds stress anisotropy of turbulent rough wall layers. *Experiments in Fluids*, **2002**, 33, 31-37	2.5	55
23	CALCULATION OF A LOW-SHEAR TURBULENT BOUNDARY LAYER USING A SECOND-MOMENT ORDER CLOSURE **2002**, 413-422		
22	Streamwise evolution of a high-Schmidt-number passive scalar in a turbulent plane wake. *Experiments in Fluids*, **2001**, 31, 186-192	2.5	6
21	Calculation of the effect of concentrated wall suction on a turbulent boundary layer using a second-order moment closure. *International Journal of Heat and Fluid Flow*, **2001**, 22, 487-494	2.4	10
20	Self-preservation of rough-wall turbulent boundary layers. *European Journal of Mechanics, B/Fluids*, **2001**, 20, 591-602	2.4	28
19	Characteristics of fluorescein dye and temperature fluctuations in a turbulent near-wake. *Experiments in Fluids*, **2000**, 28, 462-470	2.5	3
18	The turbulent boundary layer over transverse square cavities. *Journal of Fluid Mechanics*, **1999**, 395, 271-294	3.7	114
17	High Schmidt Number Passive Scalar in a Turbulent Near-Wake. *Fluid Mechanics and Its Applications*, **1998**, 585-588	0.2	
16	Modeling of the Reynolds Stress Transport Equation. *AIAA Journal*, **1997**, 35, 450-455	2.1	6
15	Advantages of using a power law in a low R□turbulent boundary layer. *Experiments in Fluids*, **1997**, 22, 348-350	2.5	15
14	The measurement of □□ in a turbulent boundary layer over a riblet surface. *International Journal of Heat and Fluid Flow*, **1997**, 18, 183-187	2.4	1
13	Laser Doppler anemometer measurements of turbulent boundary layer over a riblet surface. *AIAA Journal*, **1996**, 34, 1007-1012	2.1	14
12	Low Reynolds Number Effects on the Inner Region of a Turbulent Boundary Layer **1996**, 3-15		2
11	Riblet modelling using a second-moment closure. *Flow, Turbulence and Combustion*, **1995**, 54, 249-266		5
10	Low-Reynolds-number effects in a turbulent boundary layer. *Experiments in Fluids*, **1995**, 19, 61-68	2.5	39
9	Anisotropy of the dissipation tensor in a turbulent boundary layer. *Physics of Fluids*, **1994**, 6, 2475-2479	4.4	31
8	Laminar boundary layer over riblets. *Physics of Fluids*, **1994**, 6, 2993-2999	4.4	25

7	LDA measurements in a turbulent boundary layer over a d-type rough wall. *Experiments in Fluids*, **1994**, 16, 323-329	2.5	26
6	LDA measurements in low Reynolds number turbulent boundary layer. *Experiments in Fluids*, **1993**, 14, 280-288	2.5	24
5	Riblet flow calculation with a low Reynolds number □ □model. *Flow, Turbulence and Combustion*, **1993**, 50, 267-282		4
4	Riblet flow calculation with a low Reynolds number k - □model. *Fluid Mechanics and Its Applications*, **1993**, 267-282	0.2	2
3	High resolution conformal mesh computations for V, U or L groove riblets in laminar and turbulent boundary layers. *Fluid Mechanics and Its Applications*, **1991**, 65-92	0.2	9
2	Effect of Riblets on either Fully Developed Boundary Layers or Internal Flows in Laminar Regime. *Fluid Mechanics and Its Applications*, **1990**, 141-157	0.2	2
1	Numerical and experimental investigation of the laminar boundary layer over riblets. *Flow, Turbulence and Combustion*, **1989**, 46, 263-270		7