

# Lyazid

## List of Publications by Year in descending order

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135  
papers

2,591  
citations

201575

27  
h-index

223716

46  
g-index

143  
all docs

143  
docs citations

143  
times ranked

1246  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct numerical simulations of turbulent channel flow with transverse square bars on one wall. <i>Journal of Fluid Mechanics</i> , 2003, 491, 229-238.	1.4	325
2	Effects of initial conditions in decaying turbulence generated by passive grids. <i>Journal of Fluid Mechanics</i> , 2007, 585, 395-420.	1.4	155
3	The turbulent boundary layer over transverse square cavities. <i>Journal of Fluid Mechanics</i> , 1999, 395, 271-294.	1.4	136
4	Investigation of flow around a pair of side-by-side square cylinders using the lattice Boltzmann method. <i>Computers and Fluids</i> , 2006, 35, 1093-1107.	1.3	130
5	Structure of turbulent channel flow with square bars on one wall. <i>International Journal of Heat and Fluid Flow</i> , 2004, 25, 384-392.	1.1	116
6	Simulation of gas flow in microchannels with a sudden expansion or contraction. <i>Journal of Fluid Mechanics</i> , 2005, 530, 135-144.	1.4	74
7	Reynolds stress anisotropy of turbulent rough wall layers. <i>Experiments in Fluids</i> , 2002, 33, 31-37.	1.1	67
8	Lattice-Boltzmann simulation of grid-generated turbulence. <i>Journal of Fluid Mechanics</i> , 2006, 552, 13.	1.4	55
9	A turbulent boundary layer over a two-dimensional rough wall. <i>Experiments in Fluids</i> , 2007, 44, 37-47.	1.1	54
10	Low-Reynolds-number effects in a turbulent boundary layer. <i>Experiments in Fluids</i> , 1995, 19, 61-68.	1.1	49
11	Effect of initial conditions on decaying grid turbulence at low $R\hat{\lambda}$ . <i>Experiments in Fluids</i> , 2005, 39, 865-874.	1.1	46
12	Boundedness of the velocity derivative skewness in various turbulent flows. <i>Journal of Fluid Mechanics</i> , 2015, 781, 727-744.	1.4	41
13	Anisotropy of the dissipation tensor in a turbulent boundary layer. <i>Physics of Fluids</i> , 1994, 6, 2475-2479.	1.6	40
14	Power law of decaying homogeneous isotropic turbulence at low Reynolds number. <i>Physical Review E</i> , 2006, 73, 066304.	0.8	38
15	Heat transfer in a turbulent channel flow with square bars or circular rods on one wall. <i>Journal of Fluid Mechanics</i> , 2015, 776, 512-530.	1.4	38
16	Consequences of self-preservation on the axis of a turbulent round jet. <i>Journal of Fluid Mechanics</i> , 2014, 748, .	1.4	36
17	Laminar boundary layer over riblets. <i>Physics of Fluids</i> , 1994, 6, 2993-2999.	1.6	33
18	LDA measurements in a turbulent boundary layer over a d-type rough wall. <i>Experiments in Fluids</i> , 1994, 16, 323-329.	1.1	32

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19	Self-preservation of rough-wall turbulent boundary layers. <i>European Journal of Mechanics, B/Fluids</i> , 2001, 20, 591-602.	1.2	31
20	Influence of localised wall suction on the anisotropy of the Reynolds stress tensor in a turbulent boundary layer. <i>Experiments in Fluids</i> , 2004, 37, 187-193.	1.1	31
21	Collapse of the turbulent dissipative range on Kolmogorov scales. <i>Physics of Fluids</i> , 2014, 26, .	1.6	31
22	Combined influence of the Reynolds number and localised wall suction on a turbulent boundary layer. <i>Experiments in Fluids</i> , 2003, 35, 199-206.	1.1	30
23	Power-law exponent in the transition period of decay in grid turbulence. <i>Journal of Fluid Mechanics</i> , 2015, 779, 544-555.	1.4	29
24	Small scale turbulence and the finite Reynolds number effect. <i>Physics of Fluids</i> , 2017, 29, .	1.6	29
25	Simulation of gas flow in microchannels with a single bend. <i>Computers and Fluids</i> , 2009, 38, 1629-1637.	1.3	28
26	On the normalized dissipation parameter in decaying turbulence. <i>Journal of Fluid Mechanics</i> , 2017, 817, 61-79.	1.4	28
27	LDA measurements in low Reynolds number turbulent boundary layer. <i>Experiments in Fluids</i> , 1993, 14, 280-288.	1.1	27
28	Finite Reynolds number effect on the scaling range behaviour of turbulent longitudinal velocity structure functions. <i>Journal of Fluid Mechanics</i> , 2017, 820, 341-369.	1.4	26
29	A spectral chart method for estimating the mean turbulent kinetic energy dissipation rate. <i>Experiments in Fluids</i> , 2012, 53, 1005-1013.	1.1	24
30	Transport equation for the mean turbulent energy dissipation rate on the centreline of a fully developed channel flow. <i>Journal of Fluid Mechanics</i> , 2015, 777, 151-177.	1.4	23
31	Finite Reynolds number effect and the 4/5 law. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	22
32	Microfluidic characteristics of a multi-holed baffle plate micro-reactor. <i>International Journal of Heat and Fluid Flow</i> , 2006, 27, 1069-1077.	1.1	21
33	Transport equation for the isotropic turbulent energy dissipation rate in the far-wake of a circular cylinder. <i>Journal of Fluid Mechanics</i> , 2015, 784, 109-129.	1.4	21
34	Reappraisal of the velocity derivative flatness factor in various turbulent flows. <i>Journal of Fluid Mechanics</i> , 2018, 847, 244-265.	1.4	20
35	Experimental study of flow characteristics of an oblique impinging jet. <i>Experiments in Fluids</i> , 2020, 61, 1.	1.1	20
36	Velocity and Passive Scalar Characteristics in a Round Jet with Grids at the Nozzle Exit. <i>Flow, Turbulence and Combustion</i> , 2004, 72, 199-218.	1.4	19

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37	Momentum and heat transport in a three-dimensional transitional wake of a heated square cylinder. <i>Journal of Fluid Mechanics</i> , 2009, 640, 109-129.	1.4	19
38	Kármán-Howarth closure equation on the basis of a universal eddy viscosity. <i>Physical Review E</i> , 2013, 88, 011003.	0.8	19
39	Complete self-preservation on the axis of a turbulent round jet. <i>Journal of Fluid Mechanics</i> , 2016, 790, 57-70.	1.4	18
40	Laser Doppler anemometer measurements of turbulent boundary layer over a riblet surface. <i>AIAA Journal</i> , 1996, 34, 1007-1012.	1.5	17
41	On the anisotropy of a low-Reynolds-number grid turbulence. <i>Journal of Fluid Mechanics</i> , 2012, 702, 332-353.	1.4	17
42	On the destruction coefficients for slightly heated decaying grid turbulence. <i>International Journal of Heat and Fluid Flow</i> , 2013, 43, 129-136.	1.1	17
43	A general self-preservation analysis for decaying homogeneous isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2015, 773, 345-365.	1.4	17
44	Complete self-preservation along the axis of a circular cylinder far wake. <i>Journal of Fluid Mechanics</i> , 2016, 786, 253-274.	1.4	17
45	Advantages of using a power law in a low $R^+$ turbulent boundary layer. <i>Experiments in Fluids</i> , 1997, 22, 348-350.	1.1	16
46	Invariants for slightly heated decaying grid turbulence. <i>Journal of Fluid Mechanics</i> , 2013, 727, 379-406.	1.4	15
47	Breakdown of Kolmogorov's first similarity hypothesis in grid turbulence. <i>Journal of Turbulence</i> , 2014, 15, 596-610.	0.5	15
48	Drag of a turbulent boundary layer with transverse 2D circular rods on the wall. <i>Experiments in Fluids</i> , 2015, 56, 1.	1.1	15
49	Self-preservation in a zero pressure gradient rough-wall turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2016, 788, 57-69.	1.4	15
50	Relationship between temporal and spatial averages in grid turbulence. <i>Journal of Fluid Mechanics</i> , 2013, 730, 593-606.	1.4	14
51	Comparison between velocity- and vorticity-based POD methods in a turbulent wake. <i>Experiments in Fluids</i> , 2015, 56, 1.	1.1	14
52	Can a turbulent boundary layer become independent of the Reynolds number?. <i>Journal of Fluid Mechanics</i> , 2018, 851, 1-22.	1.4	14
53	Scale invariance in finite Reynolds number homogeneous isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2019, 864, 244-272.	1.4	14
54	Numerical investigation of laminar mixing in a coaxial microreactor. <i>Journal of Fluid Mechanics</i> , 2006, 568, 223.	1.4	13

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55	Skewness and flatness factors of the longitudinal velocity derivative in wall-bounded flows. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	13
56	Numerical and experimental investigation of the laminar boundary layer over riblets. <i>Flow, Turbulence and Combustion</i> , 1989, 46, 263-270.	0.2	11
57	Calculation of the effect of concentrated wall suction on a turbulent boundary layer using a second-order moment closure. <i>International Journal of Heat and Fluid Flow</i> , 2001, 22, 487-494.	1.1	11
58	Structure of a turbulent crossbar near-wake studied by means of lattice Boltzmann simulation. <i>Physical Review E</i> , 2008, 77, 036310.	0.8	11
59	Effect of a small axisymmetric contraction on grid turbulence. <i>Experiments in Fluids</i> , 2010, 49, 3-10.	1.1	11
60	Statistics of the turbulent kinetic energy dissipation rate and its surrogates in a square cylinder wake flow. <i>Physics of Fluids</i> , 2014, 26, .	1.6	11
61	Streamwise evolution of a high-Schmidt-number passive scalar in a turbulent plane wake. <i>Experiments in Fluids</i> , 2001, 31, 186-192.	1.1	10
62	Guidelines for Modeling a 2D Rough Wall Channel Flow. <i>Flow, Turbulence and Combustion</i> , 2006, 77, 41-57.	1.4	10
63	Transport equation for the mean turbulent energy dissipation rate in low-grid turbulence. <i>Journal of Fluid Mechanics</i> , 2014, 747, 288-315.	1.4	10
64	A velocity defect chart method for estimating the friction velocity in turbulent boundary layers. <i>Fluid Dynamics Research</i> , 2019, 51, 045502.	0.6	10
65	Roughness effect in an initially laminar channel flow. <i>Journal of Fluid Mechanics</i> , 2020, 892, .	1.4	10
66	Self-preservation relation to the Kolmogorov similarity hypotheses. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	10
67	A new equivalent sand grain roughness relation for two-dimensional rough wall turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2022, 940, .	1.4	10
68	Scaling range of velocity and passive scalar spectra in grid turbulence. <i>Physics of Fluids</i> , 2012, 24, .	1.6	9
69	Scaling of the turbulent energy dissipation correlation function. <i>Journal of Fluid Mechanics</i> , 2020, 891, .	1.4	9
70	High resolution conformal mesh computations for V, U or L groove riblets in laminar and turbulent boundary layers. <i>Fluid Mechanics and Its Applications</i> , 1991, , 65-92.	0.1	9
71	Modeling of the Reynolds Stress Transport Equation. <i>AIAA Journal</i> , 1997, 35, 450-455.	1.5	7
72	Influence of localised double suction on a turbulent boundary layer. <i>Journal of Fluids and Structures</i> , 2007, 23, 787-798.	1.5	7

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73	Anisotropy measurements in the boundary layer over a flat plate with suction. <i>Experimental Thermal and Fluid Science</i> , 2009, 33, 1106-1111.	1.5	7
74	Behaviour of the energy dissipation coefficient in a rough wall turbulent boundary layer. <i>Experiments in Fluids</i> , 2018, 59, 1.	1.1	7
75	Can small-scale turbulence approach a quasi-universal state?. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	7
76	Riblet modelling using a second-moment closure. <i>Flow, Turbulence and Combustion</i> , 1995, 54, 249-266.	0.2	6
77	A note on the velocity derivative flatness factor in decaying HIT. <i>Physics of Fluids</i> , 2017, 29, 051702.	1.6	6
78	Reynolds number effect on the velocity derivative flatness factor. <i>Journal of Fluid Mechanics</i> , 2018, 856, 426-443.	1.4	6
79	Effects of wall suction on a 2D rough wall turbulent boundary layer. <i>Experiments in Fluids</i> , 2019, 60, 1.	1.1	6
80	Assessment of large-scale forcing in isotropic turbulence using a closed $K_{ij}$ -Howarth equation. <i>Physics of Fluids</i> , 2020, 32, 055104.	1.6	6
81	Spatial resolution effects on measurements in a rough wall turbulent boundary layer. <i>Experiments in Fluids</i> , 2021, 62, 1.	1.1	6
82	Study of the interaction of two decaying grid-generated turbulent flows. <i>Physics of Fluids</i> , 2021, 33, 095122.	1.6	6
83	Flow characterization in the uphill region of pulsed oblique round jet. <i>Physics of Fluids</i> , 2022, 34, .	1.6	6
84	Riblet flow calculation with a low Reynolds number $\hat{\nu}^e - \hat{\nu}^m$ model. <i>Flow, Turbulence and Combustion</i> , 1993, 50, 267-282.	0.2	5
85	Characteristics of fluorescein dye and temperature fluctuations in a turbulent near-wake. <i>Experiments in Fluids</i> , 2000, 28, 462-470.	1.1	5
86	Decay of passive-scalar fluctuations in slightly stretched grid turbulence. <i>Experiments in Fluids</i> , 2012, 53, 909-923.	1.1	5
87	Effect of Mesh Grids on the Turbulent Mixing Layer of an Axisymmetric Jet. <i>Heat Transfer Engineering</i> , 2013, 34, 1216-1225.	1.2	5
88	On self-preservation and log-similarity in a slightly heated axisymmetric mixing layer. <i>Physics of Fluids</i> , 2014, 26, 075106.	1.6	5
89	Reynolds number effect on the response of a rough wall turbulent boundary layer to local wall suction. <i>Journal of Fluid Mechanics</i> , 2021, 916, .	1.4	5
90	Bypass transition mechanism in a rough wall channel flow. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	5

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91	Approach to the 4/3 law for turbulent pipe and channel flows examined through a reformulated scale-by-scale energy budget. <i>Journal of Fluid Mechanics</i> , 2022, 931, .	1.4	5
92	Outer turbulent boundary layer similarities for different 2D surface roughnesses at matched Reynolds number. <i>International Journal of Heat and Fluid Flow</i> , 2022, 94, 108940.	1.1	5
93	The measurement of in a turbulent boundary layer over a riblet surface. <i>International Journal of Heat and Fluid Flow</i> , 1997, 18, 183-187.	1.1	4
94	LIF based detection of low-speed streaks. <i>Experiments in Fluids</i> , 2004, 36, 600-603.	1.1	4
95	Scale-by-scale energy budget in a turbulent boundary layer over a rough wall. <i>International Journal of Heat and Fluid Flow</i> , 2015, 55, 2-8.	1.1	4
96	Mathematical constraints on the scaling exponents in the inertial range of fluid turbulence. <i>Physics of Fluids</i> , 2021, 33, .	1.6	4
97	Combined effect of roughness and suction on heat transfer in a laminar channel flow. <i>International Communications in Heat and Mass Transfer</i> , 2021, 126, 105377.	2.9	4
98	Dynamics of wall jet flow under external pulsation. <i>Physics of Fluids</i> , 2021, 33, 095103.	1.6	4
99	Riblet flow calculation with a low Reynolds number $k - \hat{\mu}$ model. <i>Fluid Mechanics and Its Applications</i> , 1993, , 267-282.	0.1	4
100	Study of a rough-wall turbulent boundary layer under pressure gradient. <i>Journal of Fluid Mechanics</i> , 2022, 938, .	1.4	4
101	Response of mean turbulent energy dissipation rate and spectra to concentrated wall suction. <i>Experiments in Fluids</i> , 2007, 44, 159-165.	1.1	3
102	Use of PIV to highlight possible errors in hot-wire Reynolds stress data over a 2D rough wall. <i>Experiments in Fluids</i> , 2014, 55, 1.	1.1	3
103	Secondary vortex street in the intermediate wake of a circular cylinder. <i>Experiments in Fluids</i> , 2018, 59, 1.	1.1	3
104	Estimation of mean turbulent kinetic energy and temperature variance dissipation rates using a spectral chart method. <i>Physics of Fluids</i> , 2020, 32, 055109.	1.6	3
105	Effect of pulsation on the wall jet flow in the near region of an impinging jet. <i>Experiments in Fluids</i> , 2021, 62, 1.	1.1	3
106	Modeling the third-order velocity structure function in the scaling range at finite Reynolds numbers. <i>Journal of Mathematical Physics</i> , 2021, 62, 083102.	0.5	3
107	Low Reynolds Number Effects on the Inner Region of a Turbulent Boundary Layer. , 1996, , 3-15.		3
108	KÄrmÄnâ€™s Howarth solutions of homogeneous isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2022, 932, .	1.4	3

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109	Near-field measurements and development of a new boundary layer over a flat plate with localized suction. <i>Experiments in Fluids</i> , 2010, 48, 747-762.	1.1	2
110	The Effects of Magnetic Field on the Fluid Flow through a Rotating Straight Duct with Large Aspect Ratio. <i>Procedia Engineering</i> , 2013, 56, 239-244.	1.2	2
111	Boundedness of the mixed velocity-temperature derivative skewness in homogeneous isotropic turbulence. <i>Physics of Fluids</i> , 2016, 28, 095102.	1.6	2
112	Towards local isotropy of higher-order statistics in the intermediate wake. <i>Experiments in Fluids</i> , 2016, 57, 1.	1.1	2
113	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. <i>European Journal of Mechanics, B/Fluids</i> , 2021, 88, 229-242.	1.2	2
114	Effect of Riblets on either Fully Developed Boundary Layers or Internal Flows in Laminar Regime. <i>Fluid Mechanics and Its Applications</i> , 1990, , 141-157.	0.1	2
115	Modeling of the Reynolds stress transport equation. <i>AIAA Journal</i> , 1997, 35, 450-455.	1.5	2
116	Spanwise vorticity measurements in a perturbed boundary layer. <i>Experiments in Fluids</i> , 2005, 39, 152-155.	1.1	1
117	Examination of anisotropy of the small-scale motion in a perturbed low Reynolds number turbulent boundary layer. <i>Experimental Thermal and Fluid Science</i> , 2007, 32, 309-315.	1.5	1
118	Spectrum of a passive scalar in stretched grid turbulence at low Reynolds numbers. <i>Journal of Physics: Conference Series</i> , 2011, 318, 052046.	0.3	1
119	Effects of Low Reynolds Number on Decay Exponent in Grid Turbulence. <i>Procedia Engineering</i> , 2014, 90, 327-332.	1.2	1
120	Empirical Correlations for Slightly Heated Decaying Passive-Grid Turbulence. <i>Heat Transfer Engineering</i> , 2014, 35, 1482-1490.	1.2	1
121	The lattice Boltzmann method and the problem of turbulence. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	1
122	K41 Versus K62: Recent Developments. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 3-14.	0.3	1
123	An empirical expression for on the axis of a slightly heated turbulent round jet. <i>Journal of Fluid Mechanics</i> , 2019, 867, 392-413.	1.4	1
124	POD Analysis of the Near-Wall Region of a Rough Wall Turbulent Boundary Layer. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2010, , 49-54.	0.1	1
125	Transport equations for the normalized $\langle i \rangle_n \langle i \rangle$ -th-order moments of velocity derivatives in grid turbulence. <i>Journal of Fluid Mechanics</i> , 2022, 930, .	1.4	1
126	Interaction Between Wakes Shed by Two Side-by-Side Square Cylinders. , 2005, , .		0

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127	Lattice Boltzmann Simulation of Pulsed Jet in $\hat{A}$ T-Shaped Micromixer. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2009, , 167-174.	0.1	0
128	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	0
129	CALCULATION OF A LOW-SHEAR TURBULENT BOUNDARY LAYER USING A SECOND-MOMENT ORDER CLOSURE. , 2002, , 413-422.		0
130	Effect of a 2-D Rough Wall on the Anisotropy of a Turbulent Channel Flow. , 2005, , 207-216.		0
131	Destruction coefficients for mean dissipation rates in grid turbulence. , 2012, , .		0
132	Turbulent crossbar wake with passive scalar. Symposium on Turbulence, Heat and Mass Transfer. , 2012, , .		0
133	Turbulent Kinetic Energy Budget in the Far Field of a Square Cylinder Wake. Lecture Notes in Mechanical Engineering, 2016, , 169-174.	0.3	0
134	Towards Local Isotropy of Higher Order Statistics in Wakes. Springer Proceedings in Physics, 2016, , 119-124.	0.1	0
135	Near-Wake Decaying Turbulence Behind a Cross-bar. , 2007, , 633-635.		0