

Lyazid

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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	Direct numerical simulations of turbulent channel flow with transverse square bars on one wall. <i>Journal of Fluid Mechanics</i> , 2003 , 491, 229-238	3.7	267
131	Effects of initial conditions in decaying turbulence generated by passive grids. <i>Journal of Fluid Mechanics</i> , 2007 , 585, 395-420	3.7	128
130	The turbulent boundary layer over transverse square cavities. <i>Journal of Fluid Mechanics</i> , 1999 , 395, 271-294	3.7	114
129	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	2.8	104
128	Structure of turbulent channel flow with square bars on one wall. <i>International Journal of Heat and Fluid Flow</i> , 2004 , 25, 384-392	2.4	90
127	Simulation of gas flow in microchannels with a sudden expansion or contraction. <i>Journal of Fluid Mechanics</i> , 2005 , 530, 135-144	3.7	62
126	Reynolds stress anisotropy of turbulent rough wall layers. <i>Experiments in Fluids</i> , 2002 , 33, 31-37	2.5	55
125	Lattice-Boltzmann simulation of grid-generated turbulence. <i>Journal of Fluid Mechanics</i> , 2006 , 552, 13	3.7	50
124	A turbulent boundary layer over a two-dimensional rough wall. <i>Experiments in Fluids</i> , 2007 , 44, 37-47	2.5	46
123	Low-Reynolds-number effects in a turbulent boundary layer. <i>Experiments in Fluids</i> , 1995 , 19, 61-68	2.5	39
122	Power law of decaying homogeneous isotropic turbulence at low Reynolds number. <i>Physical Review E</i> , 2006 , 73, 066304	2.4	37
121	Effect of initial conditions on decaying grid turbulence at low R \square <i>Experiments in Fluids</i> , 2005 , 39, 865-874	2.5	36
120	Consequences of self-preservation on the axis of a turbulent round jet. <i>Journal of Fluid Mechanics</i> , 2014 , 748,	3.7	31
119	Boundedness of the velocity derivative skewness in various turbulent flows. <i>Journal of Fluid Mechanics</i> , 2015 , 781, 727-744	3.7	31
118	Anisotropy of the dissipation tensor in a turbulent boundary layer. <i>Physics of Fluids</i> , 1994 , 6, 2475-2479	4.4	31
117	Combined influence of the Reynolds number and localised wall suction on a turbulent boundary layer. <i>Experiments in Fluids</i> , 2003 , 35, 199-206	2.5	28
116	Self-preservation of rough-wall turbulent boundary layers. <i>European Journal of Mechanics, B/Fluids</i> , 2001 , 20, 591-602	2.4	28

115	Collapse of the turbulent dissipative range on Kolmogorov scales. <i>Physics of Fluids</i> , 2014 , 26, 045105	4.4	26
114	LDA measurements in a turbulent boundary layer over a d-type rough wall. <i>Experiments in Fluids</i> , 1994 , 16, 323-329	2.5	26
113	Laminar boundary layer over riblets. <i>Physics of Fluids</i> , 1994 , 6, 2993-2999	4.4	25
112	Power-law exponent in the transition period of decay in grid turbulence. <i>Journal of Fluid Mechanics</i> , 2015 , 779, 544-555	3.7	24
111	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	2.5	24
110	LDA measurements in low Reynolds number turbulent boundary layer. <i>Experiments in Fluids</i> , 1993 , 14, 280-288	2.5	24
109	On the normalized dissipation parameter in decaying turbulence. <i>Journal of Fluid Mechanics</i> , 2017 , 817, 61-79	3.7	23
108	Simulation of gas flow in microchannels with a single bend. <i>Computers and Fluids</i> , 2009 , 38, 1629-1637	2.8	23
107	Small scale turbulence and the finite Reynolds number effect. <i>Physics of Fluids</i> , 2017 , 29, 020715	4.4	22
106	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	3.7	21
105	A spectral chart method for estimating the mean turbulent kinetic energy dissipation rate. <i>Experiments in Fluids</i> , 2012 , 53, 1005-1013	2.5	20
104	Microfluidic characteristics of a multi-holed baffle plate micro-reactor. <i>International Journal of Heat and Fluid Flow</i> , 2006 , 27, 1069-1077	2.4	20
103	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	2.5	19
102	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	3.7	17
101	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	3.7	17
100	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	3.7	17
99	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	3.7	16
98	A general self-preservation analysis for decaying homogeneous isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2015 , 773, 345-365	3.7	16

97	K ϵ m ϵ -Howarth closure equation on the basis of a universal eddy viscosity. <i>Physical Review E</i> , 2013 , 88, 011003	2.4	16
96	Complete self-preservation on the axis of a turbulent round jet. <i>Journal of Fluid Mechanics</i> , 2016 , 790, 57-70	3.7	16
95	Advantages of using a power law in a low Re turbulent boundary layer. <i>Experiments in Fluids</i> , 1997 , 22, 348-350	2.5	15
94	On the destruction coefficients for slightly heated decaying grid turbulence. <i>International Journal of Heat and Fluid Flow</i> , 2013 , 43, 129-136	2.4	14
93	On the anisotropy of a low-Reynolds-number grid turbulence. <i>Journal of Fluid Mechanics</i> , 2012 , 702, 332-353	3.7	14
92	Laser Doppler anemometer measurements of turbulent boundary layer over a riblet surface. <i>AIAA Journal</i> , 1996 , 34, 1007-1012	2.1	14
91	Reappraisal of the velocity derivative flatness factor in various turbulent flows. <i>Journal of Fluid Mechanics</i> , 2018 , 847, 244-265	3.7	14
90	Invariants for slightly heated decaying grid turbulence. <i>Journal of Fluid Mechanics</i> , 2013 , 727, 379-406	3.7	13
89	Drag of a turbulent boundary layer with transverse 2D circular rods on the wall. <i>Experiments in Fluids</i> , 2015 , 56, 1	2.5	12
88	Breakdown of Kolmogorov's first similarity hypothesis in grid turbulence. <i>Journal of Turbulence</i> , 2014 , 15, 596-610	2.1	12
87	Relationship between temporal and spatial averages in grid turbulence. <i>Journal of Fluid Mechanics</i> , 2013 , 730, 593-606	3.7	12
86	Numerical investigation of laminar mixing in a coaxial microreactor. <i>Journal of Fluid Mechanics</i> , 2006 , 568, 223	3.7	12
85	Finite Reynolds number effect and the 4/5 law. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	12
84	Effect of a small axisymmetric contraction on grid turbulence. <i>Experiments in Fluids</i> , 2010 , 49, 3-10	2.5	11
83	Skewness and flatness factors of the longitudinal velocity derivative in wall-bounded flows. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	11
82	Complete self-preservation along the axis of a circular cylinder far wake. <i>Journal of Fluid Mechanics</i> , 2016 , 786, 253-274	3.7	11
81	Self-preservation in a zero pressure gradient rough-wall turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2016 , 788, 57-69	3.7	11
80	Experimental study of flow characteristics of an oblique impinging jet. <i>Experiments in Fluids</i> , 2020 , 61, 1	2.5	10

79	Structure of a turbulent crossbar near-wake studied by means of lattice Boltzmann simulation. <i>Physical Review E</i> , 2008 , 77, 036310	2.4	10
78	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	2.4	10
77	Scale invariance in finite Reynolds number homogeneous isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2019 , 864, 244-272	3.7	9
76	Comparison between velocity- and vorticity-based POD methods in a turbulent wake. <i>Experiments in Fluids</i> , 2015 , 56, 1	2.5	9
75	Transport equation for the mean turbulent energy dissipation rate in low- grid turbulence. <i>Journal of Fluid Mechanics</i> , 2014 , 747, 288-315	3.7	9
74	Scaling range of velocity and passive scalar spectra in grid turbulence. <i>Physics of Fluids</i> , 2012 , 24, 075101	4.4	9
73	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	0.2	9
72	Statistics of the turbulent kinetic energy dissipation rate and its surrogates in a square cylinder wake flow. <i>Physics of Fluids</i> , 2014 , 26, 095104	4.4	8
71	Guidelines for Modeling a 2D Rough Wall Channel Flow. <i>Flow, Turbulence and Combustion</i> , 2006 , 77, 41-57	5.5	8
70	Self-preservation relation to the Kolmogorov similarity hypotheses. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	8
69	Can a turbulent boundary layer become independent of the Reynolds number?. <i>Journal of Fluid Mechanics</i> , 2018 , 851, 1-22	3.7	7
68	Numerical and experimental investigation of the laminar boundary layer over riblets. <i>Flow, Turbulence and Combustion</i> , 1989 , 46, 263-270		7
67	Anisotropy measurements in the boundary layer over a flat plate with suction. <i>Experimental Thermal and Fluid Science</i> , 2009 , 33, 1106-1111	3	6
66	Modeling of the Reynolds Stress Transport Equation. <i>AIAA Journal</i> , 1997 , 35, 450-455	2.1	6
65	Influence of localised double suction on a turbulent boundary layer. <i>Journal of Fluids and Structures</i> , 2007 , 23, 787-798	3.1	6
64	Streamwise evolution of a high-Schmidt-number passive scalar in a turbulent plane wake. <i>Experiments in Fluids</i> , 2001 , 31, 186-192	2.5	6
63	A note on the velocity derivative flatness factor in decaying HIT. <i>Physics of Fluids</i> , 2017 , 29, 051702	4.4	5
62	A velocity defect chart method for estimating the friction velocity in turbulent boundary layers. <i>Fluid Dynamics Research</i> , 2019 , 51, 045502	1.2	5

61	Decay of passive-scalar fluctuations in slightly stretched grid turbulence. <i>Experiments in Fluids</i> , 2012 , 53, 909-923	2.5	5
60	Riblet modelling using a second-moment closure. <i>Flow, Turbulence and Combustion</i> , 1995 , 54, 249-266		5
59	Behaviour of the energy dissipation coefficient in a rough wall turbulent boundary layer. <i>Experiments in Fluids</i> , 2018 , 59, 1	2.5	5
58	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	2.4	4
57	Scaling of the turbulent energy dissipation correlation function. <i>Journal of Fluid Mechanics</i> , 2020 , 891,	3.7	4
56	Roughness effect in an initially laminar channel flow. <i>Journal of Fluid Mechanics</i> , 2020 , 892,	3.7	4
55	On self-preservation and log-similarity in a slightly heated axisymmetric mixing layer. <i>Physics of Fluids</i> , 2014 , 26, 075106	4.4	4
54	Effect of Mesh Grids on the Turbulent Mixing Layer of an Axisymmetric Jet. <i>Heat Transfer Engineering</i> , 2013 , 34, 1216-1225	1.7	4
53	On the Outer Layer Controversy for a Turbulent Boundary Layer over a Rough Wall. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2010 , 77-86	0.3	4
52	LIF based detection of low-speed streaks. <i>Experiments in Fluids</i> , 2004 , 36, 600-603	2.5	4
51	Riblet flow calculation with a low Reynolds number ϵ model. <i>Flow, Turbulence and Combustion</i> , 1993 , 50, 267-282		4
50	Can small-scale turbulence approach a quasi-universal state?. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	4
49	Effects of wall suction on a 2D rough wall turbulent boundary layer. <i>Experiments in Fluids</i> , 2019 , 60, 1	2.5	4
48	Mathematical constraints on the scaling exponents in the inertial range of fluid turbulence. <i>Physics of Fluids</i> , 2021 , 33, 031703	4.4	4
47	Reynolds number effect on the velocity derivative flatness factor. <i>Journal of Fluid Mechanics</i> , 2018 , 856, 426-443	3.7	4
46	Study of the interaction of two decaying grid-generated turbulent flows. <i>Physics of Fluids</i> , 2021 , 33, 095122	4.4	4
45	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	2.5	3
44	Response of mean turbulent energy dissipation rate and spectra to concentrated wall suction. <i>Experiments in Fluids</i> , 2007 , 44, 159-165	2.5	3

43	Characteristics of fluorescein dye and temperature fluctuations in a turbulent near-wake. <i>Experiments in Fluids</i> , 2000 , 28, 462-470	2.5	3
42	Bypass transition mechanism in a rough wall channel flow. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	3
41	Spatial resolution effects on measurements in a rough wall turbulent boundary layer. <i>Experiments in Fluids</i> , 2021 , 62, 1	2.5	3
40	Assessment of large-scale forcing in isotropic turbulence using a closed K ϵ - ϵ flow equation. <i>Physics of Fluids</i> , 2020 , 32, 055104	4.4	2
39	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	2.5	2
38	Low Reynolds Number Effects on the Inner Region of a Turbulent Boundary Layer 1996 , 3-15		2
37	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	0.2	2
36	Riblet flow calculation with a low Reynolds number $k - \epsilon$ model. <i>Fluid Mechanics and Its Applications</i> , 1993 , 267-282	0.2	2
35	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,	3.7	2
34	Boundedness of the mixed velocity-temperature derivative skewness in homogeneous isotropic turbulence. <i>Physics of Fluids</i> , 2016 , 28, 095102	4.4	2
33	Effect of pulsation on the wall jet flow in the near region of an impinging jet. <i>Experiments in Fluids</i> , 2021 , 62, 1	2.5	2
32	An empirical expression for on the axis of a slightly heated turbulent round jet. <i>Journal of Fluid Mechanics</i> , 2019 , 867, 392-413	3.7	1
31	The lattice Boltzmann method and the problem of turbulence 2015 ,		1
30	Estimation of mean turbulent kinetic energy and temperature variance dissipation rates using a spectral chart method. <i>Physics of Fluids</i> , 2020 , 32, 055109	4.4	1
29	Towards local isotropy of higher-order statistics in the intermediate wake. <i>Experiments in Fluids</i> , 2016 , 57, 1	2.5	1
28	K41 Versus K62: Recent Developments. <i>Lecture Notes in Mechanical Engineering</i> , 2019 , 3-14	0.4	1
27	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
26	Effects of Low Reynolds Number on Decay Exponent in Grid Turbulence. <i>Procedia Engineering</i> , 2014 , 90, 327-332		1

25	Empirical Correlations for Slightly Heated Decaying Passive-Grid Turbulence. <i>Heat Transfer Engineering</i> , 2014 , 35, 1482-1490	1.7	1
24	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
23	The measurement of $\overline{u'v'}$ in a turbulent boundary layer over a riblet surface. <i>International Journal of Heat and Fluid Flow</i> , 1997 , 18, 183-187	2.4	1
22	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	3	1
21	Spanwise vorticity measurements in a perturbed boundary layer. <i>Experiments in Fluids</i> , 2005 , 39, 152-155	2.5	1
20	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	2.4	1
19	Secondary vortex street in the intermediate wake of a circular cylinder. <i>Experiments in Fluids</i> , 2018 , 59, 1	2.5	1
18	Dynamics of wall jet flow under external pulsation. <i>Physics of Fluids</i> , 2021 , 33, 095103	4.4	1
17	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	0.3	0
16	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	2.4	0
15	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	5.8	0
14	Modeling the third-order velocity structure function in the scaling range at finite Reynolds numbers. <i>Journal of Mathematical Physics</i> , 2021 , 62, 083102	1.2	0
13	Momentum and scalar transport in a localised synthetic turbulence in a channel flow with a short contraction. <i>Journal of Physics: Conference Series</i> , 2011 , 318, 052047	0.3	
12	Lattice Boltzmann Simulation of Pulsed Jet in T-Shaped Micromixer. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2009 , 167-174	0.3	
11	Measurements Over a Flat Plate With and Without Suction 2005 , 121-124		
10	Near-Wake Decaying Turbulence Behind a Cross-bar 2007 , 633-635		
9	CALCULATION OF A LOW-SHEAR TURBULENT BOUNDARY LAYER USING A SECOND-MOMENT ORDER CLOSURE 2002 , 413-422		
8	Effect of a 2-D Rough Wall on the Anisotropy of a Turbulent Channel Flow 2005 , 207-216		

- 7 Electroosmotic Effects on Rough Wall Micro-channel Flow. *Advances in Intelligent Systems and Computing*, **2019**, 623-630 0.4
- 6 High Schmidt Number Passive Scalar in a Turbulent Near-Wake. *Fluid Mechanics and Its Applications*, **1998**, 585-588 0.2
- 5 Turbulent Kinetic Energy Budget in the Far Field of a Square Cylinder Wake. *Lecture Notes in Mechanical Engineering*, **2016**, 169-174 0.4
- 4 Turbulent Sheared Mixing Layer Generated with a Composite Grid. *Lecture Notes in Mechanical Engineering*, **2016**, 283-288 0.4
- 3 Towards Local Isotropy of Higher Order Statistics in Wakes. *Springer Proceedings in Physics*, **2016**, 119-124.2
- 2 Wake Manipulation Using Control Cylinders in a Tandem Arrangement. *Lecture Notes in Mechanical Engineering*, **2014**, 161-166 0.4
- 1 Flow characterization in the uphill region of pulsed oblique round jet. *Physics of Fluids*, **2022**, 34, 035113.4.4