

Hiroyuki Abe

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5031586/publications.pdf>

Version: 2024-02-01

19
papers

1,608
citations

623188

14
h-index

839053

18
g-index

19
all docs

19
docs citations

19
times ranked

816
citing authors

#	ARTICLE	IF	CITATIONS
1	Empirical scaling laws for wall-bounded turbulence deduced from direct numerical simulations. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	8
2	Direct numerical simulation of a non-equilibrium three-dimensional turbulent boundary layer over a flat plate. <i>Journal of Fluid Mechanics</i> , 2020, 902, .	1.4	10
3	Effect of a Quadratic Constitutive Relation on Juncture Flow Computations. , 2020, , .		8
4	Direct numerical simulation of a turbulent boundary layer with separation and reattachment over a range of Reynolds numbers. <i>Fluid Dynamics Research</i> , 2019, 51, 011409.	0.6	10
5	Mean temperature calculations in a turbulent channel flow for air and mercury. <i>International Journal of Heat and Mass Transfer</i> , 2019, 132, 1152-1165.	2.5	16
6	Large-scale structures in a turbulent channel flow with a minimal streamwise flow unit. <i>Journal of Fluid Mechanics</i> , 2018, 850, 733-768.	1.4	26
7	Relationship between the heat transfer law and the scalar dissipation function in a turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2017, 830, 300-325.	1.4	27
8	Reynolds-number dependence of wall-pressure fluctuations in a pressure-induced turbulent separation bubble. <i>Journal of Fluid Mechanics</i> , 2017, 833, 563-598.	1.4	40
9	Relationship between the energy dissipation function and the skin friction law in a turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2016, 798, 140-164.	1.4	32
10	Scaling of normalized mean energy and scalar dissipation rates in a turbulent channel flow. <i>Physics of Fluids</i> , 2011, 23, .	1.6	17
11	Near-wall similarity between velocity and scalar fluctuations in a turbulent channel flow. <i>Physics of Fluids</i> , 2009, 21, .	1.6	32
12	Correlation between small-scale velocity and scalar fluctuations in a turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2009, 627, 1-32.	1.4	74
13	Analogy between velocity and scalar fields in a turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2009, 628, 241-268.	1.4	80
14	Effects of the Streamwise Computational Domain Size on DNS of a Turbulent Channel Flow at High Reynolds Number. <i>Springer Proceedings in Physics</i> , 2007, , 233-235.	0.1	3
15	Very Large-Scale Structures and Their Effects on the Wall Shear-Stress Fluctuations in a Turbulent Channel Flow up to $Re_{\tau}^* = 640$. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2004, 126, 835-843.	0.8	149
16	Surface heat-flux fluctuations in a turbulent channel flow up to $Re_{\tau}^* = 1020$ with $Pr = 0.025$ and 0.71 . <i>International Journal of Heat and Fluid Flow</i> , 2004, 25, 404-419.	1.1	270
17	Direct Numerical Simulation of a Fully Developed Turbulent Channel Flow With Respect to the Reynolds Number Dependence. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2001, 123, 382-393.	0.8	224
18	DNS of turbulent heat transfer in channel flow with respect to Reynolds and Prandtl number effects. <i>International Journal of Heat and Fluid Flow</i> , 1999, 20, 196-207.	1.1	285

#	ARTICLE	IF	CITATIONS
19	DNS of turbulent heat transfer in channel flow with low to medium-high Prandtl number fluid. International Journal of Heat and Fluid Flow, 1998, 19, 482-491.	1.1	297