

Giles Brereton

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

209
citations

1163117

8
h-index

996975

15
g-index

19
all docs

19
docs citations

19
times ranked

139
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of Recent Advances in the Study of Unsteady Turbulent Internal Flows. Applied Mechanics Reviews, 1995, 48, 189-212.	10.1	31
2	Data-driven prediction of the equivalent sand-grain height in rough-wall turbulent flows. Journal of Fluid Mechanics, 2021, 912, .	3.4	30
3	Prospects for Implementation of Thermoelectric Generators as Waste Heat Recovery Systems in Class 8 Truck Applications. Journal of Energy Resources Technology, Transactions of the ASME, 2013, 135, .	2.3	25
4	The interdependence of friction, pressure gradient, and flow rate in unsteady laminar parallel flows. Physics of Fluids, 2000, 12, 518-530.	4.0	20
5	Exact solutions for some fully developed laminar pipe flows undergoing arbitrary unsteadiness. Physics of Fluids, 2005, 17, 118104.	4.0	19
6	Convective heat transfer in unsteady laminar parallel flows. Physics of Fluids, 2006, 18, 103602.	4.0	17
7	Turbulence structures over realistic and synthetic wall roughness in open channel flow at $Re_{\tau} = 1000$. Journal of Turbulence, 2019, 20, 723-749.	1.4	15
8	Diffusive heat and mass transfer in oscillatory pipe flow. Physics of Fluids, 2017, 29, .	4.0	12
9	Single-point structure tensors in turbulent channel flows with smooth and wavy walls. Physics of Fluids, 2019, 31, .	4.0	7
10	Toward modeling of turbulent flow over surfaces of arbitrary roughness. Physics of Fluids, 2021, 33, 065121.	4.0	7
11	Axial conduction and dissipation in oscillatory laminar pipe flow at low and high frequencies. Physics of Fluids, 2019, 31, .	4.0	6
12	Effects of surface roughness topography in transient channel flows. Journal of Turbulence, 2021, 22, 434-460.	1.4	5
13	An indirect pressure-gradient technique for measuring instantaneous flow rates in unsteady duct flows. Experiments in Fluids, 2006, 40, 238-244.	2.4	4
14	Eulerian Model for Prediction of Particle Transport and Deposition in Turbulent Duct Flows with Thermophoresis. Aerosol Science and Technology, 2015, 49, 802-815.	3.1	4
15	Approximate behavior of arbitrarily unsteady laminar flow in long, straight, flexible tubes. Physics of Fluids, 2009, 21, .	4.0	3
16	A Thermophoretic Sherwood Number for Characterizing Submicron-Particle Mass Transfer in Laminar Wall-Bounded Flows. Aerosol Science and Technology, 2013, 47, 634-644.	3.1	2
17	Accuracy in Numerical Solution of the Particle Concentration Field in Laminar Wall-Bounded Flows with Thermophoresis and Diffusion. Aerosol Science and Technology, 2014, 48, 957-968.	3.1	2
18	Effects of transients on pulsatile flow in arteries. Biorheology, 2011, 48, 199-217.	0.4	0

#	ARTICLE	IF	CITATIONS
19	Axial heat-transfer enhancement by flow oscillation for high heat-flux applications. Experiments in Fluids, 2022, 63, .	2.4	0