

Sean C C Bailey

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,792
citations

279798

23
h-index

265206

42
g-index

63
all docs

63
docs citations

63
times ranked

1220
citing authors

#	ARTICLE	IF	CITATIONS
1	Turbulence measurements using a nanoscale thermal anemometry probe. <i>Journal of Fluid Mechanics</i> , 2010, 663, 160-179.	3.4	129
2	Logarithmic scaling of turbulence in smooth- and rough-wall pipe flow. <i>Journal of Fluid Mechanics</i> , 2013, 728, 376-395.	3.4	108
3	Spatial resolution correction for wall-bounded turbulence measurements. <i>Journal of Fluid Mechanics</i> , 2011, 676, 41-53.	3.4	95
4	Intercomparison of Small Unmanned Aircraft System (sUAS) Measurements for Atmospheric Science during the LAPSE-RATE Campaign. <i>Sensors</i> , 2019, 19, 2179.	3.8	88
5	Turbulence spectra in smooth- and rough-wall pipe flow at extreme Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2013, 731, 46-63.	3.4	86
6	Estimating the value of von Kármán's constant in turbulent pipe flow. <i>Journal of Fluid Mechanics</i> , 2014, 749, 79-98.	3.4	84
7	Turbulence measurements in pipe flow using a nano-scale thermal anemometry probe. <i>Experiments in Fluids</i> , 2011, 51, 1521-1527.	2.4	82
8	Measurements of the velocity field of a wing-tip vortex, wandering in grid turbulence. <i>Journal of Fluid Mechanics</i> , 2008, 601, 281-315.	3.4	79
9	Influence of wall proximity on vortex shedding from a square cylinder. <i>Experiments in Fluids</i> , 2003, 34, 585-596.	2.4	78
10	Scaling of near-wall turbulence in pipe flow. <i>Journal of Fluid Mechanics</i> , 2010, 649, 103-113.	3.4	74
11	Obtaining accurate mean velocity measurements in high Reynolds number turbulent boundary layers using Pitot tubes. <i>Journal of Fluid Mechanics</i> , 2013, 715, 642-670.	3.4	71
12	Numerical study of iso-Q sample geometric effects on charring ablative materials. <i>International Journal of Heat and Mass Transfer</i> , 2015, 80, 570-596.	4.8	68
13	Experimental investigation of the structure of large- and very-large-scale motions in turbulent pipe flow. <i>Journal of Fluid Mechanics</i> , 2010, 651, 339-356.	3.4	67
14	Azimuthal structure of turbulence in high Reynolds number pipe flow. <i>Journal of Fluid Mechanics</i> , 2008, 615, 121-138.	3.4	63
15	A data-driven adaptive Reynolds-averaged Navier-Stokes model for turbulent flow. <i>Journal of Computational Physics</i> , 2017, 345, 111-131.	3.8	55
16	Development of an Unmanned Aerial Vehicle for the Measurement of Turbulence in the Atmospheric Boundary Layer. <i>Atmosphere</i> , 2017, 8, 195.	2.3	51
17	Coordinated Unmanned Aircraft System (UAS) and Ground-Based Weather Measurements to Predict Lagrangian Coherent Structures (LCSs). <i>Sensors</i> , 2018, 18, 4448.	3.8	43
18	Measurements of frequencies and spatial correlations of coherent structures in rod bundle flows. <i>Nuclear Engineering and Design</i> , 2006, 236, 1830-1837.	1.7	42

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19	Effects of Free-Stream Turbulence on Wing-Tip Vortex Formation and Near Field. <i>Journal of Aircraft</i> , 2006, 43, 1282-1291.	2.4	39
20	Development of Community, Capabilities, and Understanding through Unmanned Aircraft-Based Atmospheric Research: The LAPSE-RATE Campaign. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E684-E699.	3.3	38
21	Hot-wire spatial resolution effects in measurements of grid-generated turbulence. <i>Experiments in Fluids</i> , 2012, 53, 1713-1722.	2.4	31
22	Scaling of global properties of turbulence and skin friction in pipe and channel flows. <i>Journal of Fluid Mechanics</i> , 2010, 652, 65-73.	3.4	30
23	Numerical and experimental analysis of spallation phenomena. <i>CEAS Space Journal</i> , 2016, 8, 229-236.	2.3	30
24	Experimental analysis of spallation particle trajectories in an arc-jet environment. <i>Experimental Thermal and Fluid Science</i> , 2018, 93, 319-325.	2.7	23
25	An experimental investigation of wing-tip vortex decay in turbulence. <i>Physics of Fluids</i> , 2017, 29, .	4.0	18
26	Data generated during the 2018 LAPSE-RATE campaign: an introduction and overview. <i>Earth System Science Data</i> , 2020, 12, 3357-3366.	9.9	18
27	Effects of hot-wire length on the measurement of turbulent spectra in anisotropic flows. <i>Measurement Science and Technology</i> , 2010, 21, 105407.	2.6	16
28	Monitoring Tropospheric Gases with Small Unmanned Aerial Systems (sUAS) during the Second CLOUDMAP Flight Campaign. <i>Atmosphere</i> , 2019, 10, 434.	2.3	16
29	Filtered dynamic inversion for altitude control of fixed-wing unmanned air vehicles. <i>Aerospace Science and Technology</i> , 2016, 54, 241-252.	4.8	15
30	Experimental investigation of the scaling of vortex wandering in turbulent surroundings. <i>Journal of Fluid Mechanics</i> , 2018, 843, 722-747.	3.4	14
31	University of Kentucky measurements of wind, temperature, pressure and humidity in support of LAPSE-RATE using multisite fixed-wing and rotorcraft unmanned aerial systems. <i>Earth System Science Data</i> , 2020, 12, 1759-1773.	9.9	14
32	Arc-jet measurements of low-density ablator spallation. <i>Experimental Thermal and Fluid Science</i> , 2022, 133, 110544.	2.7	14
33	Investigation of the scaling of roughness and blowing effects on turbulent channel flow. <i>Experiments in Fluids</i> , 2014, 55, 1.	2.4	12
34	A drag coefficient model for Lagrangian particle dynamics relevant to high-speed flows. <i>International Journal of Heat and Fluid Flow</i> , 2021, 87, 108706.	2.4	12
35	Retrospective cost adaptive Reynolds-averaged Navier–Stokes model for data-driven unsteady turbulent simulations. <i>Journal of Computational Physics</i> , 2018, 357, 353-374.	3.8	11
36	Evaluation of hot-wire spatial filtering corrections for wall turbulence and correction for end-conduction effects. <i>Experiments in Fluids</i> , 2014, 55, 1.	2.4	9

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37	Universality of local dissipation scales in turbulent boundary layer flows with and without free-stream turbulence. <i>Physics of Fluids</i> , 2017, 29, .	4.0	9
38	On the universality of local dissipation scales in turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2016, 786, 234-252.	3.4	8
39	Unmanned aerial vehicles reveal the impact of a total solar eclipse on the atmospheric surface layer. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190212.	2.1	7
40	Numerical reconstruction of spalled particle trajectories in an arc-jet environment. , 2021, , .		7
41	An approach to minimize aircraft motion bias in multi-hole probe wind measurements made by small unmanned aerial systems. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 173-184.	3.1	6
42	Amplitude and wavelength scaling of sinusoidal roughness effects in turbulent channel flow at fixed. <i>Journal of Fluid Mechanics</i> , 2022, 937, .	3.4	5
43	Fundamental Turbulence Measurement with Unmanned Aerial Vehicles (Invited). , 2016, , .		4
44	Characterization of Ablation Product Radiation Signatures of PICA and FiberForm. , 2016, , .		4
45	Experimental examination of vorticity stripping from a wing-tip vortex in free-stream turbulence. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	3
46	External intermittency compensation of dissipation scale distributions in a turbulent boundary layer. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	3
47	Introducing Perturbations into Turbulent Wall-Bounded Flow With Arrays of Long TiO ₂ Nanowires. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2015, 137, .	1.5	2
48	Modeling and flight testing of wing shaping for roll control of an unmanned aerial vehicle. <i>Journal of Unmanned Vehicle Systems</i> , 2015, 3, 192-204.	1.2	2
49	Structure of Large- and Very Large-Scale Motions in Turbulent Pipe Flow. , 2009, , .		1
50	An Aircraft Design Competition for High School STEM Improvement. , 2014, , .		1
51	Spallation particle size analysis resulting from arc-jet experiments. , 2020, , .		1
52	Modeling of spalled particles for arc-jet test planning. , 2022, , .		1
53	Modeling Dissipation Scale Distributions at High Reynolds Number. , 2022, , .		1
54	Investigation of Turbulent Structure Modification by Momentum Injection Into Turbulent Flow Over a Rough Surface. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
55	Turbulence in Pipe Flows with Small Relative Roughness. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 33-42.	0.2	0