Sean C C Bailey

List of Publications by Year
in descending order

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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	Arc-jet measurements of low-density ablator spallation. Experimental Thermal and Fluid Science, 2022, 133, 110544.	2.7	14
2	Amplitude and wavelength scaling of sinusoidal roughness effects in turbulent channel flow at fixed. Journal of Fluid Mechanics, 2022, 937, .	3.4	5
3	Modeling of spalled particles for arc-jet test planning. , 2022, , .		1
4	Modeling Dissipation Scale Distributions at High Reynolds Number. , 2022, , .		1
5	A drag coefficient model for Lagrangian particle dynamics relevant to high-speed flows. International Journal of Heat and Fluid Flow, 2021, 87, 108706.	2.4	12
6	An approach to minimize aircraft motion bias in multi-hole probe wind measurements made by small unmanned aerial systems. Atmospheric Measurement Techniques, 2021, 14, 173-184.	3.1	6
7	Numerical reconstruction of spalled particle trajectories in an arc-jet environment. , 2021, , .		7
8	Development of Community, Capabilities, and Understanding through Unmanned Aircraft-Based Atmospheric Research: The LAPSE-RATE Campaign. Bulletin of the American Meteorological Society, 2020, 101, E684-E699.	3.3	38
9	Spallation particle size analysis resulting from arc-jet experiments. , 2020, , .		1
10	University of Kentucky measurements of wind, temperature, pressure and humidity in support of LAPSE-RATE using multisite fixed-wing and rotorcraft unmanned aerial systems. Earth System Science Data, 2020, 12, 1759-1773.	9.9	14
11	Data generated during the 2018 LAPSE-RATE campaign: an introduction and overview. Earth System Science Data, 2020, 12, 3357-3366.	9.9	18
12	Monitoring Tropospheric Gases with Small Unmanned Aerial Systems (sUAS) during the Second CLOUDMAP Flight Campaign. Atmosphere, 2019, 10, 434.	2.3	16
13	Unmanned aerial vehicles reveal the impact of a total solar eclipse on the atmospheric surface layer. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190212.	2.1	7
14	Intercomparison of Small Unmanned Aircraft System (sUAS) Measurements for Atmospheric Science during the LAPSE-RATE Campaign. Sensors, 2019, 19, 2179.	3.8	88
15	Experimental analysis of spallation particle trajectories in an arc-jet environment. Experimental Thermal and Fluid Science, 2018, 93, 319-325.	2.7	23
16	Experimental investigation of the scaling of vortex wandering in turbulent surroundings. Journal of Fluid Mechanics, 2018, 843, 722-747.	3.4	14
17	Retrospective cost adaptive Reynolds-averaged Navierâ€“Stokes kâ€“ï‰ model for data-driven unsteady turbulent simulations. Journal of Computational Physics, 2018, 357, 353-374.	3.8	11
18	Coordinated Unmanned Aircraft System (UAS) and Ground-Based Weather Measurements to Predict Lagrangian Coherent Structures (LCSs). Sensors, 2018, 18, 4448.	3.8	43

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19	Experimental examination of vorticity stripping from a wing-tip vortex in free-stream turbulence. Physical Review Fluids, 2018, 3, .	2.5	3
20	External intermittency compensation of dissipation scale distributions in a turbulent boundary layer. Physical Review Fluids, 2018, 3, .	2.5	3
21	A data-driven adaptive Reynolds-averaged Navierâ€“Stokes kâ€“Ï‰ model for turbulent flow. Journal of Computational Physics, 2017, 345, 111-131.	3.8	55
22	An experimental investigation of wing-tip vortex decay in turbulence. Physics of Fluids, 2017, 29, .	4.0	18
23	Universality of local dissipation scales in turbulent boundary layer flows with and without free-stream turbulence. Physics of Fluids, 2017, 29, .	4.0	9
24	Development of an Unmanned Aerial Vehicle for the Measurement of Turbulence in the Atmospheric Boundary Layer. Atmosphere, 2017, 8, 195.	2.3	51
25	On the universality of local dissipation scales in turbulent channel flow. Journal of Fluid Mechanics, 2016, 786, 234-252.	3.4	8
26	Numerical and experimental analysis of spallation phenomena. CEAS Space Journal, 2016, 8, 229-236.	2.3	30
27	Filtered dynamic inversion for altitude control of fixed-wing unmanned air vehicles. Aerospace Science and Technology, 2016, 54, 241-252.	4.8	15
28	Fundamental Turbulence Measurement with Unmanned Aerial Vehicles (Invited). , 2016, , .		4
29	Characterization of Ablation Product Radiation Signatures of PICA and FiberForm. , 2016, , .		4
30	Introducing Perturbations into Turbulent Wall-Bounded Flow With Arrays of Long TiO2 Nanowires. Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	1.5	2
31	Modeling and flight testing of wing shaping for roll control of an unmanned aerial vehicle. Journal of Unmanned Vehicle Systems, 2015, 3, 192-204.	1.2	2
32	Numerical study of iso-Q sample geometric effects on charring ablative materials. International Journal of Heat and Mass Transfer, 2015, 80, 570-596.	4.8	68
33	An Aircraft Design Competition for High School STEM Improvement. , 2014, , .		1
34	Investigation of the scaling of roughness and blowing effects on turbulent channel flow. Experiments in Fluids, 2014, 55, 1.	2.4	12
35	Estimating the value of von KÃ¡rmÃ¡nâ€™s constant in turbulent pipe flow. Journal of Fluid Mechanics, 2014, 749, 79-98.	3.4	84
36	Evaluation of hot-wire spatial filtering corrections for wall turbulence and correction for end-conduction effects. Experiments in Fluids, 2014, 55, 1.	2.4	9

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37	Logarithmic scaling of turbulence in smooth- and rough-wall pipe flow. Journal of Fluid Mechanics, 2013, 728, 376-395.	3.4	108
38	Turbulence spectra in smooth- and rough-wall pipe flow at extreme Reynolds numbers. Journal of Fluid Mechanics, 2013, 731, 46-63.	3.4	86
39	Obtaining accurate mean velocity measurements in high Reynolds number turbulent boundary layers using Pitot tubes. Journal of Fluid Mechanics, 2013, 715, 642-670.	3.4	71
40	Investigation of Turbulent Structure Modification by Momentum Injection Into Turbulent Flow Over a Rough Surface. , 2013, , .		0
41	Hot-wire spatial resolution effects in measurements of grid-generated turbulence. Experiments in Fluids, 2012, 53, 1713-1722.	2.4	31
42	Spatial resolution correction for wall-bounded turbulence measurements. Journal of Fluid Mechanics, 2011, 676, 41-53.	3.4	95
43	Turbulence measurements in pipe flow using a nano-scale thermal anemometry probe. Experiments in Fluids, 2011, 51, 1521-1527.	2.4	82
44	Experimental investigation of the structure of large- and very-large-scale motions in turbulent pipe flow. Journal of Fluid Mechanics, 2010, 651, 339-356.	3.4	67
45	Scaling of near-wall turbulence in pipe flow. Journal of Fluid Mechanics, 2010, 649, 103-113.	3.4	74
46	Scaling of global properties of turbulence and skin friction in pipe and channel flows. Journal of Fluid Mechanics, 2010, 652, 65-73.	3.4	30
47	Turbulence measurements using a nanoscale thermal anemometry probe. Journal of Fluid Mechanics, 2010, 663, 160-179.	3.4	129
48	Effects of hot-wire length on the measurement of turbulent spectra in anisotropic flows. Measurement Science and Technology, 2010, 21, 105407.	2.6	16
49	Turbulence in Pipe Flows with Small Relative Roughness. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 33-42.	0.2	0
50	Structure of Large- and Very Large-Scale Motions in Turbulent Pipe Flow. , 2009, , .		1
51	Measurements of the velocity field of a wing-tip vortex, wandering in grid turbulence. Journal of Fluid Mechanics, 2008, 601, 281-315.	3.4	79
52	Azimuthal structure of turbulence in high Reynolds number pipe flow. Journal of Fluid Mechanics, 2008, 615, 121-138.	3.4	63
53	Measurements of frequencies and spatial correlations of coherent structures in rod bundle flows. Nuclear Engineering and Design, 2006, 236, 1830-1837.	1.7	42
54	Effects of Free-Stream Turbulence on Wing-Tip Vortex Formation and Near Field. Journal of Aircraft, 2006, 43, 1282-1291.	2.4	39

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55	Influence of wall proximity on vortex shedding from a square cylinder. Experiments in Fluids, 2003, 34, 585-596.	2.4	78