

Jonathan F Morrison

List of Publications by Year in descending order

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48
papers

1,284
citations

516710

16
h-index

361022

35
g-index

49
all docs

49
docs citations

49
times ranked

943
citing authors

#	ARTICLE	IF	CITATIONS
1	Further observations on the mean velocity distribution in fully developed pipe flow. Journal of Fluid Mechanics, 2004, 501, 135-147.	3.4	257
2	Eddy structure in turbulent boundary layers. European Journal of Mechanics, B/Fluids, 2000, 19, 673-694.	2.5	196
3	Scaling of the streamwise velocity component in turbulent pipe flow. Journal of Fluid Mechanics, 2004, 508, 99-131.	3.4	190
4	Stochastic modelling and feedback control of bistability in a turbulent bluff body wake. Journal of Fluid Mechanics, 2016, 802, 726-749.	3.4	79
5	Transient growth instability cancelation by a plasma actuator array. Experiments in Fluids, 2010, 49, 1339-1348.	2.4	67
6	The interaction between inner and outer regions of turbulent wall-bounded flow. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 683-698.	3.4	54
7	Pitot probe corrections in fully developed turbulent pipe flow. Measurement Science and Technology, 2003, 14, 1449-1458.	2.6	53
8	Anisotropy and energy flux in wall turbulence. Journal of Fluid Mechanics, 2003, 491, 353-378.	3.4	33
9	High-frequency forcing of a turbulent axisymmetric wake. Journal of Fluid Mechanics, 2015, 770, 305-318.	3.4	33
10	Turbulent friction drag reduction using electroactive polymer and electromagnetically driven surfaces. Experiments in Fluids, 2013, 54, 1.	2.4	29
11	Experimental Control of Turbulent Boundary Layers with In-plane Travelling Waves. Flow, Turbulence and Combustion, 2018, 100, 1015-1035.	2.6	28
12	Flow control with active dimples. Aeronautical Journal, 2007, 111, 705-714.	1.6	24
13	Passive control of backstep flow. Experimental Thermal and Fluid Science, 1998, 16, 122-132.	2.7	23
14	Analysis of the energy budget in turbulent channel flow using orthogonal wavelets. Computers and Fluids, 2005, 34, 199-224.	2.5	19
15	Electro-active polymer (EAP) "dimple" actuators for flow control: Design and characterisation.. Sensors and Actuators A: Physical, 2010, 157, 210-218.	4.1	19
16	Similarity of the streamwise velocity component in very-rough-wall channel flow. Journal of Fluid Mechanics, 2011, 668, 174-201.	3.4	18
17	The Interaction of a Swept-Wing Boundary Layer with Surface Excrescences. , 2016, , .		18
18	Weakly nonlinear modelling of a forced turbulent axisymmetric wake. Journal of Fluid Mechanics, 2017, 814, 570-591.	3.4	15

#	ARTICLE	IF	CITATIONS
19	Passive control of base pressure on an axisymmetric blunt body using a perimetric slit. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	15
20	Flow estimation of boundary layers using DNS-based wall shear information. <i>International Journal of Control</i> , 2011, 84, 1310-1325.	1.9	12
21	Extremum seeking to control the amplitude and frequency of a pulsed jet for bluff body drag reduction. <i>Experiments in Fluids</i> , 2016, 57, 1.	2.4	12
22	Modelling and feedback control of vortex shedding for drag reduction of a turbulent bluff body wake. <i>International Journal of Heat and Fluid Flow</i> , 2018, 71, 127-136.	2.4	9
23	Analysis of a stochastic backscatter model for the large-eddy simulation of wall-bounded flow. <i>European Journal of Mechanics, B/Fluids</i> , 2004, 23, 737-758.	2.5	8
24	Stabilising Control Laws for the Incompressible Navier-Stokes Equations Using Sector Stability Theory. , 2006, , .		8
25	A numerical model for electro-active polymer actuators with experimental validation. <i>Sensors and Actuators A: Physical</i> , 2011, 170, 121-130.	4.1	7
26	Spectral structure and linear mechanisms in a rapidly distorted boundary layer. <i>International Journal of Heat and Fluid Flow</i> , 2017, 67, 63-73.	2.4	7
27	Compliant kagome lattice structures for generating in-plane waveforms. <i>International Journal of Solids and Structures</i> , 2018, 141-142, 86-101.	2.7	7
28	Adaptive Base-Flaps Under Variable Cross-Wind. , 0, , .		6
29	Simulation of the turbulent axisymmetric bluff body wake with pulsed jet forcing. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	5
30	A modeling and filtering framework for the semi-discretised Navier-Stokes equations. , 2009, , .		4
31	An innovative low-profile monolithic constant-temperature anemometer. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2012, 100, 38-45.	3.9	4
32	Fictitious domain for stabilization of fluid-structure interaction. <i>IFAC-PapersOnLine</i> , 2017, 50, 12301-12306.	0.9	3
33	The determination and enhancement of compliant modes for actuation in structural assemblies. <i>International Journal of Solids and Structures</i> , 2017, 106-107, 264-273.	2.7	3
34	Control of cellular separation using adaptive surfaces. <i>Journal of Fluids and Structures</i> , 2019, 91, 102609.	3.4	3
35	Intermediate scaling and logarithmic invariance in turbulent pipe flow. <i>Journal of Fluid Mechanics</i> , 2021, 913, .	3.4	3
36	Control of transient growth induced boundary layer transition using plasma actuators. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2010, , 183-188.	0.2	3

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37	Real-time feedback control of three-dimensional Tollmien-Schlichting waves using a dual-slot actuator geometry. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	3
38	Adaptive Vortex Generator Structures for the Reduction of Turbulent Separation. , 2015, , .		2
39	Optimal aero-structural design of an adaptive surface for boundary layer motivation using an auxetic lattice skin. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 2414-2427.	2.5	2
40	Adaptive Kagome Lattices for Near Wall Turbulence Suppression. , 2015, , .		1
41	Introduction to Topical Issue on Extreme Flows. <i>Experiments in Fluids</i> , 2016, 57, 1.	2.4	1
42	Stability and Coherent Structures in the Wake of Axisymmetric Bluff Bodies. <i>Fluid Mechanics and Its Applications</i> , 2015, , 143-148.	0.2	1
43	Low-Order Flow-Field Estimation Using Surface-Shear-Stress Information in a Transitional Boundary Layer. , 2008, , .		0
44	Scaling of Turbulence Structures in Very-Rough-Wall Channel Flow. <i>ERCOFTAC Series</i> , 2011, , 405-412.	0.1	0
45	Flow Estimation of Boundary Layers Using Wall Shear Information. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011, 44, 13813-13818.	0.4	0
46	Control of Cellular Separation Using Adaptive Surface Structures. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2021, , 73-80.	0.3	0
47	Large Roughness Effects in Channel Flow. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2010, , 167-173.	0.2	0
48	Open-Loop Control of a Turbulent Axisymmetric Wake. <i>Fluid Mechanics and Its Applications</i> , 2015, , 137-142.	0.2	0