

Flint O Thomas

List of Publications by Year in descending order

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50
papers

2,706
citations

218677

26
h-index

254184

43
g-index

52
all docs

52
docs citations

52
times ranked

1282
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of Dielectric Barrier Discharge Plasma Actuators for Active Aerodynamic Flow Control. AIAA Journal, 2009, 47, 2169-2178.	2.6	427
2	Plasma Actuators for Cylinder Flow Control and Noise Reduction. AIAA Journal, 2008, 46, 1921-1931.	2.6	261
3	Plasma Actuators for Separation Control of Low-Pressure Turbine Blades. AIAA Journal, 2006, 44, 51-57.	2.6	257
4	Dynamic Stall in Pitching Airfoils: Aerodynamic Damping and Compressibility Effects. Annual Review of Fluid Mechanics, 2015, 47, 479-505.	25.0	154
5	Unsteady Plasma Actuators for Separation Control of Low-Pressure Turbine Blades. AIAA Journal, 2006, 44, 1477-1487.	2.6	151
6	Coherent structure in the turbulent planar jet. Part 1. Extraction of proper orthogonal decomposition eigenmodes and their self-similarity. Journal of Fluid Mechanics, 2000, 414, 145-194.	3.4	128
7	Structural characteristics of a developing turbulent planar jet. Journal of Fluid Mechanics, 1986, 163, 227-256.	3.4	114
8	Active and Passive Turbulent Boundary-Layer Drag Reduction. AIAA Journal, 2018, 56, 3835-3847.	2.6	108
9	Coherent structure in a turbulent jet via a vector implementation of the proper orthogonal decomposition. Journal of Fluid Mechanics, 2007, 571, 281-326.	3.4	75
10	An experimental investigation of a highly accelerated turbulent boundary layer. Journal of Fluid Mechanics, 2009, 634, 359.	3.4	72
11	Structure of Mixing Layers and Jets. Applied Mechanics Reviews, 1991, 44, 119-153.	10.1	58
12	An experimental investigation of symmetric and asymmetric turbulent wake development in pressure gradient. Physics of Fluids, 2004, 16, 1725-1745.	4.0	55
13	Coherent structure in the turbulent planar jet. Part 2. Structural topology via POD eigenmode projection. Journal of Fluid Mechanics, 2002, 460, 349-380.	3.4	54
14	Turbulent Boundary-Layer Separation Control with Single Dielectric Barrier Discharge Plasma Actuators. AIAA Journal, 2010, 48, 1620-1634.	2.6	52
15	An experimental investigation of the transition of a planar jet: Subharmonic suppression and upstream feedback. Physics of Fluids A, Fluid Dynamics, 1989, 1, 1566-1587.	1.6	51
16	An experimental investigation of the natural transition of an untuned planar jet. Physics of Fluids A, Fluid Dynamics, 1991, 3, 90-105.	1.6	49
17	Bluff-Body Flow Control via Two Types of Dielectric Barrier Discharge Plasma Actuation. AIAA Journal, 2011, 49, 1919-1931.	2.6	49
18	Experiments characterizing nonlinear shear layer dynamics in a supersonic rectangular jet undergoing screech. Physics of Fluids, 1997, 9, 2562-2579.	4.0	43

#	ARTICLE	IF	CITATIONS
19	An experimental investigation of an unsteady adverse pressure gradient turbulent boundary layer: embedded shear layer scaling. <i>Journal of Fluid Mechanics</i> , 2017, 815, 592-642.	3.4	42
20	Turbulent drag reduction using pulsed-DC plasma actuation. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 434001.	2.8	41
21	Plasma Flow Control of Cylinders in a Tandem Configuration. <i>AIAA Journal</i> , 2011, 49, 2183-2193.	2.6	32
22	A wavelet transform analysis applied to unsteady aspects of supersonic jet screech resonance. <i>Experiments in Fluids</i> , 1997, 22, 229-238.	2.4	31
23	Measurement of the turbulent kinetic energy budget of a planar wake flow in pressure gradients. <i>Experiments in Fluids</i> , 2004, 37, 469-482.	2.4	30
24	An investigation of large-scale structure in the similarity region of a two-dimensional turbulent jet. <i>Physics of Fluids</i> , 1986, 29, 1788.	1.4	29
25	Mechanism of Vorticity Generation in Plasma Streamwise Vortex Generators. <i>AIAA Journal</i> , 2015, 53, 3404-3413.	2.6	29
26	Experimental characterization of aviation-fuel cavitation. <i>Physics of Fluids</i> , 2010, 22, .	4.0	26
27	Large-scale control strategy for drag reduction in turbulent channel flows. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	26
28	Characteristics of drag-reduced turbulent boundary layers with pulsed-direct-current plasma actuation. <i>Journal of Fluid Mechanics</i> , 2021, 915, .	3.4	24
29	Numerical investigation of tandem-cylinder noise reduction using plasma-based flow control. <i>Journal of Fluid Mechanics</i> , 2014, 756, 422-451.	3.4	23
30	A temporal proper decomposition (TPOD) for closed-loop flow control. <i>Experiments in Fluids</i> , 2013, 54, 1.	2.4	22
31	Effect of Relative Humidity on Dielectric Barrier Discharge Plasma Actuator Body Force. <i>AIAA Journal</i> , 2015, 53, 2801-2805.	2.6	20
32	Nonlinear wave coupling and subharmonic resonance in planar jet shear layer transition. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 630-646.	1.6	19
33	Improved Understanding of Aerodynamic Damping Through the Hilbert Transform. <i>AIAA Journal</i> , 2014, 52, 2384-2394.	2.6	17
34	Experimental investigation of the nonlinear spectral dynamics of planar jet transition. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991, 3, 1544-1559.	1.6	16
35	Design and Scaling of Plasma Streamwise Vortex Generators for Flow Separation Control. <i>AIAA Journal</i> , 2016, 54, 3397-3408.	2.6	15
36	Temporal subharmonic amplitude and phase behaviour in a jet shear layer: wavelet analysis and Hamiltonian formulation. <i>Journal of Fluid Mechanics</i> , 1999, 394, 205-240.	3.4	14

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37	Benchmark Smooth Body Flow Separation Experiments. , 2017, , .		12
38	An experimental investigation into the role of simultaneous amplitude and phase modulation in the transition of a planar jet. Physics of Fluids A, Fluid Dynamics, 1990, 2, 553-574.	1.6	10
39	Quantitative detection of turbulent reattachment using a surface mounted hot-film array. Experiments in Fluids, 2004, 37, 75-79.	2.4	10
40	The possibility of a resonance mechanism in the developing two-dimensional jet. Physics of Fluids, 1985, 28, 3510.	1.4	8
41	Determination of Henry's law constant and the diffusion and polytropic coefficients of air in aviation fuel. Fuel, 2011, 90, 1257-1263.	6.4	8
42	Parametric Modal Decomposition of Dynamic Stall. AIAA Journal, 2019, 57, 176-190.	2.6	8
43	Evidence of Surface Curvature Effects in Smooth Body Flow Separation Experiments. , 2019, , .		7
44	A Smooth Body, Large-Scale Flow Separation Experiment. , 2018, , .		6
45	Streamwise Evolution of Turbulent Boundary Layer Response to Active Control Actuator. , 2020, , .		6
46	Smooth Body Flow Separation Experiments and Their Surface Flow Topology Characterization. , 2019, , .		5
47	Experiments on the nonlinear stages of excited and natural planar jet shear layer transition. Experiments in Fluids, 1993, 14, 451-467.	2.4	4
48	Benchmark Characterization of Separated Flow Over Smooth Gaussian Bump. , 2022, , .		3
49	Turbulent Boundary Layer Response to Active Control Actuator. , 2021, , .		2
50	Experimental investigation of the confluent boundary layer of a high-lift system. AIAA Journal, 2000, 38, 978-988.	2.6	2