

Joseph S Jewell

List of Publications by Year in descending order

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63
papers

887
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623734

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g-index

65
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65
docs citations

65
times ranked

233
citing authors

#	ARTICLE	IF	CITATIONS
1	Nose-Tip Bluntness Effects on Transition at Hypersonic Speeds. Journal of Spacecraft and Rockets, 2019, 56, 369-387.	1.9	70
2	Boundary-Layer Stability Analysis for Stetson's Mach 6 Blunt-Cone Experiments. Journal of Spacecraft and Rockets, 2017, 54, 258-265.	1.9	69
3	Disturbance Speed Measurements in a Circular Jet via Double Focused Laser Differential Interferometry. , 2019, , .		43
4	Nonmodal Growth of Traveling Waves on Blunt Cones at Hypersonic Speeds. AIAA Journal, 2019, 57, 4738-4749.	2.6	39
5	AFRL Ludwig Tube Initial Performance. , 2017, , .		37
6	Carbon Dioxide Injection for Hypervelocity Boundary Layer Stability. , 2010, , .		33
7	100 kHz PLEET velocimetry in a Mach-6 Ludwig tube. Optics Express, 2020, 28, 21982.	3.4	33
8	Disturbance and Phase Speed Measurements for Shock Tubes and Hypersonic Boundary-Layer Instability. , 2016, , .		32
9	Instability Measurements on an Axisymmetric Separation Bubble at Mach 6. , 2020, , .		32
10	Effects of Shock-Tube Cleanliness on Hypersonic Boundary Layer Transition at High Enthalpy. AIAA Journal, 2017, 55, 332-338.	2.6	29
11	Focused Laser Differential Interferometry with Contoured Tunnel Windows. AIAA Journal, 2021, 59, 419-429.	2.6	26
12	Hypersonic shock-wave/boundary-layer interactions on a cone/flare. Experimental Thermal and Fluid Science, 2019, 109, 109911.	2.7	24
13	Transition Within a Hypervelocity Boundary Layer on a 5-Degree Half-Angle Cone in Air/CO2 Mixtures. , 2013, , .		22
14	Focused Laser Differential Interferometry for Hypersonic Flow Instability Measurements with Contoured Tunnel Windows. , 2020, , .		22
15	Characterization of instability mechanisms on sharp and blunt slender cones at Mach 6. Journal of Fluid Mechanics, 2022, 936, .	3.4	22
16	HIFIRE-5b Heat Flux and Boundary-Layer Transition. , 2017, , .		21
17	Transition on a Variable Bluntness 7-Degree Cone at High Reynolds Number. , 2018, , .		19
18	HIFIRE-5b Heat Flux and Boundary-Layer Transition. Journal of Spacecraft and Rockets, 2018, 55, 1315-1328.	1.9	19

#	ARTICLE	IF	CITATIONS
19	Turbulent Spot Observations within a Hypervelocity Boundary Layer on a 5-degree Half-Angle Cone. , 2012, , .		18
20	First and Fifth Hypersonic International Flight Research Experimentationâ€™s Flight and Ground Tests. Journal of Spacecraft and Rockets, 2019, 56, 421-431.	1.9	17
21	Bubbles emerging from a submerged granular bed. Journal of Fluid Mechanics, 2011, 666, 189-203.	3.4	16
22	Turbulent spots in hypervelocity flow. Experiments in Fluids, 2017, 58, 1.	2.4	16
23	Effect of surface cooling on second-mode dominated hypersonic boundary layer transition. Experiments in Fluids, 2021, 62, 1.	2.4	15
24	Experimental Measurements of Hypersonic Instabilities over Ogive-Cylinders at Mach 6. AIAA Journal, 2022, 60, 4492-4508.	2.6	14
25	Correlation of HIFiRE-5a Flight Data with Computed Pressure and Heat Transfer. Journal of Spacecraft and Rockets, 2017, 54, 1142-1152.	1.9	13
26	Nosetip bluntness effects on transition at hypersonic speeds: experimental and numerical analysis under NATO STO AVT-240. , 2018, , .		13
27	Visualizations of Hypersonic Boundary-Layer Transition on a Variable Bluntness Cone. , 2019, , .		13
28	Femtosecond Laser Electronic Excitation Tagging Velocimetry in a Mach Six Quiet Tunnel. AIAA Journal, 2021, 59, 768-772.	2.6	12
29	Boundary Layer Stability Analysis for Stetsonâ€™s Mach 6 Blunt Cone Experiments. , 2016, , .		10
30	Correlation of HIFiRE-5b Flight Data With Computed Pressure and Heat Transfer for Attitude Determination. , 2017, , .		10
31	HIFiRE-5b Flow Computations and Attitude Determination via Comparison with Flight Data. Journal of Spacecraft and Rockets, 2018, 55, 1356-1368.	1.9	9
32	High-Speed Schlieren Visualization in Mach-6 Quiet Tunnel. , 2022, , .		9
33	Linear Instabilities over Ogive-Cylinder Models at Mach 6. AIAA Journal, 2022, 60, 4478-4491.	2.6	9
34	HIFiRE-1 and -5 Flight and Ground Tests. , 2018, , .		8
35	Hypersonic Shock-Wave/Boundary-Layer Interactions on a Cone/Flare Model. , 2018, , .		8
36	Correlation of HIFiRE-5 Flight Data With Computed Pressure and Heat Transfer. , 2015, , .		5

#	ARTICLE	IF	CITATIONS
37	Separation Bubble Variation Due to Small Angles of Attack for an Axisymmetric Model at Mach 6. , 2021, , .		5
38	HIFiRE-5b Boundary-Layer Transition Length and Turbulent Overshoot. Journal of Spacecraft and Rockets, 2021, 58, 265-283.	1.9	5
39	Propagation of Controlled Disturbances through an Axisymmetric Separation Bubble at Mach 6. , 2021, , .		5
40	Hypersonic Boundary-Layer Instabilities over Ogive-Cylinder Models. , 2022, , .		5
41	Effects of Shock-Tube Cleanliness on Slender-Body Hypersonic Instability and Transition Studies at High-Enthalpy. , 2015, , .		4
42	Experimental Investigation of Image Distortion in a Mach 6 Hypersonic Flow. , 2018, , .		4
43	Turbulent Hypersonic Flow Effects on Optical Sensor Performance. , 2018, , .		4
44	Effects of Attitude on HIFiRE-5b Boundary-Layer Transition. Journal of Spacecraft and Rockets, 2019, 56, 1045-1059.	1.9	4
45	Experimental Measurements of Hypersonic Instabilities over Ogive-Cylinders at Mach 6. , 2021, , .		4
46	Boundary-Layer Instabilities Over a Cone-Cylinder-Flare Model at Mach 6. , 2022, , .		4
47	Investigation of Second-Mode Instability Attenuation Over Porous Materials in Mach-6 Quiet Flow. , 2022, , .		4
48	HIFiRE-5b Boundary-Layer Transition --- With Attitude. , 2018, , .		3
49	Nonmodal Growth of Traveling Waves on Blunt Cones at Hypersonic Speeds. , 2019, , .		3
50	Simulated Focused Laser Differential Interferometry of Time-Varying Signals. , 2022, , .		3
51	The Effect of a Porous Thrust Surface on Detonation Tube Impulse. , 2003, , .		2
52	Transient Startup Simulations for a Large Mach 6 Quiet Ludwig Tube. , 2017, , .		2
53	HIFiRE-5b Boundary-Layer Transition Length and Turbulent Overshoot. , 2019, , .		2
54	Roughness Effects on the Crossflow Instability on the HIFiRE-5 Geometry. , 2022, , .		2

#	ARTICLE	IF	CITATIONS
55	Combined Bluntness and Roughness Effects on Cones at Hypersonic Speeds. , 2022, , .		2
56	Visualizations of Boundary-Layer Transition on a Sharp Cone at Mach 6. , 2019, , .		1
57	Effect of Carbon-based Ablation Products on Boundary Layer Stability. , 2019, , .		1
58	Effect of CO2 Concentration in the Hypersonic Boundary Layer on Second Mode Disturbances. , 2019, , .		1
59	High-Speed Schlieren Visualization of Mach 6 Flow Past a Cone with Varied Parameters. , 2020, , .		1
60	Experimental Investigation of Optical Distortion in Hypersonic Flows at Mach 6. , 2020, , .		1
61	Focused Laser Differential Interferometry Performance Through Wind Tunnel Boundary Layers. , 2022, , .		1
62	100-kHz PLEET for hypersonic flow velocity measurements in a Mach 6 Ludwig Tube. , 2020, , .		0
63	Boundary-Layer Analysis in Mach-6 Quiet Tunnel Using Schlieren Methods. , 2022, , .		0