

Dennis K Mclaughlin

List of Publications by Year in descending order

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65
papers

1,309
citations

430874

18
h-index

477307

29
g-index

65
all docs

65
docs citations

65
times ranked

250
citing authors

#	ARTICLE	IF	CITATIONS
1	Experiments on the instability waves in a supersonic jet and their acoustic radiation. <i>Journal of Fluid Mechanics</i> , 1975, 69, 73-95.	3.4	170
2	Acoustic and Mean Flow Measurements of High-Speed, Helium-Air Mixture Jets. <i>International Journal of Aeroacoustics</i> , 2003, 2, 293-333.	1.3	89
3	Instability process in low Reynolds number supersonic jets. <i>AIAA Journal</i> , 1980, 18, 793-800.	2.6	83
4	Measurements of Supersonic Helium/Air Mixture Jets. <i>AIAA Journal</i> , 1999, 37, 1363-1369.	2.6	81
5	Noise reduction in supersonic jets by nozzle fluidic inserts. <i>Journal of Sound and Vibration</i> , 2013, 332, 3992-4003.	3.9	68
6	Acoustic Pressure Waveforms Measured in High Speed Jet Noise Experiencing Nonlinear Propagation. <i>International Journal of Aeroacoustics</i> , 2006, 5, 193-215.	1.3	64
7	On the Scaling of Small, Heat Simulated Jet Noise Measurements to Moderate Size Exhaust Jets. <i>International Journal of Aeroacoustics</i> , 2010, 9, 627-654.	1.3	57
8	Reynolds Number Dependence in Supersonic Jet Noise. <i>AIAA Journal</i> , 1977, 15, 526-532.	2.6	55
9	Space-time correlation measurements of high-speed axisymmetric jets using optical deflectometry. <i>Experiments in Fluids</i> , 2005, 38, 415-425.	2.4	48
10	Experimental Comparison of Supersonic Jets Exhausting from Military Style Nozzles with Interior Corrugations and Fluidic Inserts. , 2013, , .		37
11	Aeroacoustic properties of supersonic elliptic jets. <i>Journal of Fluid Mechanics</i> , 1999, 395, 1-28.	3.4	35
12	Beamformed Flow-Acoustic Correlations in a Supersonic Jet. <i>AIAA Journal</i> , 2010, 48, 2445-2453.	2.6	34
13	Effects of Jet Temperature on Broadband Shock-Associated Noise. <i>AIAA Journal</i> , 2015, 53, 1515-1530.	2.6	30
14	Correlation of Flowfield and Acoustic field Measurements in High-Speed Jets. <i>AIAA Journal</i> , 2011, 49, 150-163.	2.6	29
15	Acoustic Measurements of High-Speed Jets from Rectangular Nozzle with Thrust Vectoring. <i>AIAA Journal</i> , 2009, 47, 1482-1490.	2.6	27
16	Experimental Investigation of Near-Field Pressure Fluctuations Generated by Supersonic Jets. , 2013, , .		25
17	Effects of Jet Noise Source Distribution on Acoustic Far-Field Measurements. <i>International Journal of Aeroacoustics</i> , 2012, 11, 885-915.	1.3	24
18	Acoustic assessment of small-scale military-style nozzles with chevrons. <i>Noise Control Engineering Journal</i> , 2012, 60, 559-576.	0.3	24

#	ARTICLE	IF	CITATIONS
19	Measurements of Kelvin-Helmholtz instabilities in a supersonic shear layer. AIAA Journal, 1994, 32, 1633-1639.	2.6	22
20	Supersonic Jet Noise Reduction by Nozzle Fluidic Inserts with Simulated Forward Flight. , 2014, , .		21
21	Azimuthal mode measurements of elliptic jets. Physics of Fluids, 1997, 9, 2000-2008.	4.0	18
22	Experiments on Mach-Wave Interactions in a Compressible Shear Layer. AIAA Journal, 2000, 38, 1871-1878.	2.6	15
23	Assessment of Computational Fluid Dynamics for Supersonic Shock Containing Jets. AIAA Journal, 2009, 47, 2738-2746.	2.6	15
24	Noise Reduction with Fluidic Inserts in Supersonic Jets Exhausting Over a Simulated Aircraft Carrier Deck. , 2015, , .		14
25	Further Development of Supersonic Jet Noise Reduction Using Nozzle Fluidic Inserts. , 2017, , .		14
26	Structure of coherent instabilities in a supersonic shear layer. AIAA Journal, 1996, 34, 1555-1561.	2.6	13
27	Numerical Simulations for Supersonic Jet Noise Reduction Using Fluidic Inserts. , 2016, , .		13
28	Experimental Results for Supersonic Jet Noise Reduction using Nozzle Fluidic Inserts. , 2017, , .		13
29	Experimental investigation of the mean flow of the laminar supersonic cone wake. AIAA Journal, 1971, 9, 479-484.	2.6	12
30	Prediction, Experiments and Optimization of High-Speed Jet Noise Reduction Using Fluidic Inserts. , 2014, , .		12
31	Acoustic measurements of models of military style supersonic nozzle jets. Chinese Journal of Aeronautics, 2014, 27, 23-33.	5.3	12
32	Mean Velocity and Turbulence Measurements of Supersonic Jets with Fluidic Inserts. , 2016, , .		12
33	Noise Reduction in Supersonic Jets Exhausting over a Simulated Aircraft Carrier Deck. Journal of Aircraft, 2018, 55, 310-324.	2.4	12
34	Noise Reduction in Supersonic Jets from Rectangular Convergent-Divergent Nozzles. , 2015, , .		11
35	Investigation on the Flow-Field of Two Parallel Round Jets Impinging Normal to a Flat Surface. , 2016, , .		11
36	Experimental investigation of the stability of the laminar supersonic cone wake. AIAA Journal, 1971, 9, 696-702.	2.6	10

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37	Far-Field Acoustic Measurements of Dual Impinging Scale Model Jets. , 2014, , .		10
38	Experimental and Numerical Study of Injector Design and Operation on Supersonic Jet Noise Reduction Using Fluidic Corrugations. , 2016, , .		9
39	Scaled Demonstration of Fluid Insert Noise Reduction for Tactical Fighter Aircraft Engines. Journal of Aircraft, 2019, 56, 1935-1941.	2.4	7
40	Extending On-Demand Noise Reduction to Industry Scale for Tactical Aircraft. , 2016, , .		6
41	Outwash Measurements of a Dual Impinging Jet Scale Model. , 2015, , .		5
42	Laser Doppler Velocimetry in Supersonic Round Jets. , 2015, , .		5
43	Acoustics measurements of military-style supersonic beveled nozzle jets with interior corrugations. International Journal of Aeroacoustics, 2017, 16, 21-43.	1.3	5
44	Hot-wire Measurements in a Supersonic Jet at Low Reynolds Numbers. AIAA Journal, 1974, 12, 1279-1281.	2.6	4
45	The Near-Field Acoustics of Supersonic Single and Dual Impinging Jets with Correlations to Far-Field Noise. , 2017, , .		4
46	Experimental Investigation of Two Impinging Model Scale Jets. , 2014, , .		3
47	Design and Analysis of a Supersonic Jet Noise Reduction Concept. , 2014, , .		3
48	Design and Analysis of a Supersonic Jet Noise Reduction Concept. Journal of Aircraft, 2017, 54, 1705-1717.	2.4	3
49	Experimental and Numerical Investigation of Jet Noise Reduction Using Fluid Inserts for Rectangular Nozzle with Aspect Ratio of 2. , 2019, , .		3
50	Thermal Characterization of a Dual Impinging Jet Flow Field with a Heated Jet. , 2016, , .		2
51	Analysis of Fluid Insert Noise Reduction Method with PIV. , 2018, , .		2
52	Mean Flow Measurements in Supersonic Jets with Noise Reduction Devices. , 2019, , .		2
53	Aeroacoustics of a Dual Stream Rectangular Supersonic Jet with Three-Sided Fluid Shield. , 2020, , .		2
54	Nozzle Length and Aft Deck Effects on the Aeroacoustics of Dual Stream Supersonic Jets. , 2020, , .		2

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55	A Comparison of the Aeroacoustic Characteristics of Free and Impinging Jets with Deflected Seals Noise Reduction Technique. , 2016, , .		1
56	Noise and Noise Reduction in Supersonic Jets. , 2019, , 85-96.		1
57	Simulations and Measurements of the Flow and Noise in Hot Supersonic Jets. , 2011, , .		0
58	Unsteady Velocity Measurements of Model-Scale Supersonic Exhaust Jets in Military-Relevant Configurations. , 2016, , .		0
59	Experimental and Numerical Study of Hard-wall Corrugations for Supersonic Jet Noise Reduction. , 2017, , .		0
60	Supersonic Active Noise Reduction in Small- and Moderate-Scale Nozzles. , 2018, , .		0
61	Philip J Morris: Some history and professional achievements. International Journal of Aeroacoustics, 2018, 17, 326-338.	1.3	0
62	Nozzle Configuration Effects on the Aeroacoustics of Dual Stream Supersonic Jets. , 2019, , .		0
63	Aeroacoustic and Flow Field Characterization of Dual Stream Rectangular Supersonic Jets. , 2019, , .		0
64	Acoustic Measurements of Co-annular Jets at High Subsonic-Low Supersonic Jet Velocities. , 2020, , .		0
65	Development of a Dual-Stream Rectangular Supersonic Jet with a Three-Sided Fluid Shield for Acoustic Benefits. , 2021, , .		0