

Philip J Morris

List of Publications by Year in descending order

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155
papers

4,010
citations

147566

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h-index

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158
all docs

158
docs citations

158
times ranked

1110
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurements in subsonic and supersonic free jets using a laser velocimeter. Journal of Fluid Mechanics, 1979, 93, 1-27.	1.4	328
2	The radiation of sound by the instability waves of a compressible plane turbulent shear layer. Journal of Fluid Mechanics, 1980, 98, 349-381.	1.4	255
3	Differential eigenvalue problems in which the parameter appears nonlinearly. Journal of Computational Physics, 1984, 55, 437-460.	1.9	195
4	The spatial viscous instability of axisymmetric jets. Journal of Fluid Mechanics, 1976, 77, 511-529.	1.4	183
5	Acoustic Analogy and Alternative Theories for Jet Noise Prediction. AIAA Journal, 2002, 40, 671-680.	1.5	182
6	A Parallel Three-Dimensional Computational Aeroacoustics Method Using Nonlinear Disturbance Equations. Journal of Computational Physics, 1997, 133, 56-74.	1.9	120
7	The effect of anisotropic wall compliance on boundary-layer stability and transition. Journal of Fluid Mechanics, 1990, 218, 171.	1.4	114
8	Velocity measurements in jets with application to noise source modeling. Journal of Sound and Vibration, 2010, 329, 394-414.	2.1	109
9	Calculation of Sound Propagation in Nonuniform Flows: Suppression of Instability Waves. AIAA Journal, 2004, 42, 80-88.	1.5	100
10	Radiated Noise from Airfoils in Realistic Mean Flows. AIAA Journal, 1998, 36, 907-914.	1.5	95
11	A Note on Noise Generation by Large Scale Turbulent Structures in Subsonic and Supersonic Jets. International Journal of Aeroacoustics, 2009, 8, 301-315.	0.8	87
12	OpenFOAM for Computational Fluid Dynamics. Notices of the American Mathematical Society, 2014, 61, 354.	0.1	83
13	Analytic formulation and numerical implementation of an acoustic pressure gradient prediction. Journal of Sound and Vibration, 2009, 319, 1200-1221.	2.1	75
14	The Instability of High Speed Jets. International Journal of Aeroacoustics, 2010, 9, 1-50.	0.8	68
15	Noise reduction in supersonic jets by nozzle fluidic inserts. Journal of Sound and Vibration, 2013, 332, 3992-4003.	2.1	68
16	Tone excited jets, part V: A theoretical model and comparison with experiment. Journal of Sound and Vibration, 1985, 102, 119-151.	2.1	66
17	Prediction of Broadband Shock-Associated Noise Using Reynolds-Averaged Navier-Stokes Computational Fluid Dynamics. AIAA Journal, 2010, 48, 2931-2944.	1.5	60
18	Use of Finite Element Methods in Frequency Domain Aeroacoustics. AIAA Journal, 2006, 44, 1643-1652.	1.5	56

#	ARTICLE	IF	CITATIONS
19	Acoustic Scattering in the Time Domain Using an Equivalent Source Method. AIAA Journal, 2010, 48, 2772-2780.	1.5	55
20	Turbulence Measurements in Subsonic and Supersonic Axisymmetric Jets in a Parallel Stream. AIAA Journal, 1976, 14, 1468-1475.	1.5	51
21	CFD Analysis of Gear Windage Losses: Validation and Parametric Aerodynamic Studies. Journal of Fluids Engineering, Transactions of the ASME, 2011, 133, .	0.8	51
22	A linear shock cell model for jets of arbitrary exit geometry. Journal of Sound and Vibration, 1989, 132, 199-211.	2.1	50
23	The Prediction of Jet Noise from CFD Data. , 2004, , .		46
24	Role of three-dimensional instabilities in compliant wall boundary-layer transition. AIAA Journal, 1991, 29, 1603-1610.	1.5	44
25	Instability waves in twin supersonic jets. Journal of Fluid Mechanics, 1990, 220, 293-307.	1.4	43
26	A Higher-Order Compact Method in Space and Time Based on Parallel Implementation of the Thomas Algorithm. Journal of Computational Physics, 2000, 161, 182-203.	1.9	42
27	Flow characteristics of the large scale wave-like structure of a supersonic round jet. Journal of Sound and Vibration, 1977, 53, 223-244.	2.1	41
28	Effect of compliant walls on secondary instabilities in boundary-layer transition. AIAA Journal, 1992, 30, 332-339.	1.5	41
29	Assessment of Time-Domain Equivalent Source Method for Acoustic Scattering. AIAA Journal, 2011, 49, 1897-1906.	1.5	41
30	Simulations of Supersonic Jet Noise. International Journal of Aeroacoustics, 2002, 1, 17-41.	0.8	39
31	The noise from normal-velocity-profile coannular jets. Journal of Sound and Vibration, 1985, 98, 213-234.	2.1	38
32	Comparison of two- and three-dimensional turbulent cavity flows. , 2001, , .		38
33	In-flight simulation experiments on turbulent jet mixing noise. Journal of Sound and Vibration, 1977, 53, 389-405.	2.1	36
34	Beamformed Flow-Acoustic Correlations in a Supersonic Jet. AIAA Journal, 2010, 48, 2445-2453.	1.5	34
35	Instability of elliptic jets. AIAA Journal, 1988, 26, 172-178.	1.5	33
36	Algorithm for the Nonlinear Propagation of Broadband Jet Noise. AIAA Journal, 2009, 47, 186-194.	1.5	32

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37	A study of noise reduction mechanisms of jets with fluid inserts. Journal of Sound and Vibration, 2020, 476, 115331.	2.1	31
38	Effects of Jet Temperature on Broadband Shock-Associated Noise. AIAA Journal, 2015, 53, 1515-1530.	1.5	30
39	Viscous stability of compressible axisymmetric jets. AIAA Journal, 1983, 21, 481-482.	1.5	29
40	Time-Domain Approach for Acoustic Scattering of Rotorcraft Noise. Journal of the American Helicopter Society, 2012, 57, 1-12.	0.5	26
41	The spatial stability of compressible elliptic jets. Physics of Fluids, 1995, 7, 185-194.	1.6	25
42	Scattering of sound from a spatially distributed, spherically symmetric source by a sphere. Journal of the Acoustical Society of America, 1995, 98, 3536-3539.	0.5	25
43	Experimental Investigation of Near-Field Pressure Fluctuations Generated by Supersonic Jets. , 2013, , .		25
44	Prediction Method for Broadband Noise from Unsteady Flow in a Slat Cove. AIAA Journal, 2006, 44, 301-310.	1.5	23
45	The scattering of sound from a spatially distributed axisymmetric cylindrical source by a circular cylinder. Journal of the Acoustical Society of America, 1995, 97, 2651-2656.	0.5	21
46	Numerical predictions of high speed jet noise. , 1997, , .		21
47	The Prediction of Broadband Shock-Associated Noise Including Propagation Effects. International Journal of Aeroacoustics, 2012, 11, 755-781.	0.8	21
48	Supersonic Jet Noise Reduction by Nozzle Fluidic Inserts with Simulated Forward Flight. , 2014, , .		21
49	Steady active control of noise radiation from highly heated supersonic jets. Journal of the Acoustical Society of America, 2021, 149, 1306-1317.	0.5	20
50	Acoustic Scattering from Two- and Three-Dimensional Bodies. Journal of Computational Acoustics, 1998, 06, 357-375.	1.0	19
51	Effect of fluid injection on turbulence and noise reduction of a supersonic jet. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190082.	1.6	19
52	Boundary layer stability calculations. Physics of Fluids, 1987, 30, 3351.	1.4	17
53	Direct Simulation of Acoustic Scattering by Two- and Three-Dimensional Bodies. Journal of Aircraft, 2000, 37, 68-75.	1.7	17
54	An Aeroacoustic Analysis of Wind Turbines. , 2004, , .		17

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55	A note on the effect of forward flight on shock spacing in circular jets. <i>Journal of Sound and Vibration</i> , 1988, 122, 175-177.	2.1	16
56	The eigenvalue spectrum of the Rayleigh equation for a plane shear layer. <i>International Journal for Numerical Methods in Fluids</i> , 1992, 15, 1407-1415.	0.9	16
57	A Parallel Implementation of a Computational Aeroacoustic Algorithm for Airfoil Noise. <i>Journal of Computational Acoustics</i> , 1997, 05, 337-353.	1.0	15
58	Jet noise simulations for circular nozzles. , 2000, , .		15
59	Assessment of Computational Fluid Dynamics for Supersonic Shock Containing Jets. <i>AIAA Journal</i> , 2009, 47, 2738-2746.	1.5	15
60	The separation of radiating and non-radiating near-field pressure fluctuations in supersonic jets. <i>Journal of Sound and Vibration</i> , 2015, 355, 172-187.	2.1	15
61	Weakly nonlinear models for turbulent mixing in a plane mixing layer. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992, 4, 2798-2808.	1.6	14
62	Large-eddy simulation of wall bounded shear flow using the nonlinear disturbance equations. , 2000, , .		14
63	Effects of Supersonic Jet Conditions on Broadband Shock-Associated Noise. , 2011, , .		14
64	Noise Reduction with Fluidic Inserts in Supersonic Jets Exhausting Over a Simulated Aircraft Carrier Deck. , 2015, , .		14
65	Further Development of Supersonic Jet Noise Reduction Using Nozzle Fluidic Inserts. , 2017, , .		14
66	High speed jet noise simulations. , 1998, , .		13
67	Numerical Simulations for Supersonic Jet Noise Reduction Using Fluidic Inserts. , 2016, , .		13
68	Experimental Results for Supersonic Jet Noise Reduction using Nozzle Fluidic Inserts. , 2017, , .		13
69	Framework for a Landing-Gear Model and Acoustic Prediction. <i>Journal of Aircraft</i> , 2010, 47, 763-774.	1.7	12
70	Axisymmetry and azimuthal modes in jet noise. , 2012, , .		12
71	Prediction, Experiments and Optimization of High-Speed Jet Noise Reduction Using Fluidic Inserts. , 2014, , .		12
72	Mean Velocity and Turbulence Measurements of Supersonic Jets with Fluidic Inserts. , 2016, , .		12

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73	Noise Reduction in Supersonic Jets Exhausting over a Simulated Aircraft Carrier Deck. Journal of Aircraft, 2018, 55, 310-324.	1.7	12
74	A three dimensional parabolic equation method for sound propagation in moving inhomogeneous media. Journal of the Acoustical Society of America, 2009, 126, 1700.	0.5	11
75	Noise Reduction in Supersonic Jets from Rectangular Convergent-Divergent Nozzles. , 2015, , .		11
76	Parallel computations of high speed jet noise. , 1999, , .		10
77	Stability of a two-dimensional jet. AIAA Journal, 1981, 19, 857-862.	1.5	9
78	The sensitivity of flow and surface instabilities to changes in compliant wall properties. Journal of Fluids and Structures, 1989, 3, 423-437.	1.5	9
79	Turbulent mixing in plane and axisymmetric shear layers. , 1990, , .		9
80	A Review of Parallel Computing in Computational Aeroacoustics. International Journal of Computational Fluid Dynamics, 2004, 18, 493-502.	0.5	9
81	Beamformed Flow-Acoustic Correlations in High-Speed Jets. , 2009, , .		9
82	Jet noise simulations for realistic jet nozzle geometries. Procedia Engineering, 2010, 6, 28-37.	1.2	9
83	Noise simulations of supersonic hot jets for chevron nozzles. , 2011, , .		9
84	Experimental and Numerical Study of Injector Design and Operation on Supersonic Jet Noise Reduction Using Fluidic Corrugations. , 2016, , .		9
85	Simulations and measurements of the flow and noise in hot supersonic jets. Noise Control Engineering Journal, 2012, 60, 577-594.	0.2	9
86	Numerical Study of Nozzle Exit Condition Effects on Jet Development. AIAA Journal, 1998, 36, 986-993.	1.5	8
87	Wing-Tip Vortex Calculations Using a High-Accuracy Scheme. Journal of Aircraft, 1998, 35, 728-738.	1.7	8
88	Two Component Velocity Correlations in Jets and Noise Source Modeling. , 2010, , .		8
89	Investigation of laminar to turbulent transition phenomena effects on impingement heat transfer. Heat and Mass Transfer, 2016, 52, 2027-2036.	1.2	8
90	Malaysia Airlines Flight MH370: Water Entry of an Airliner. Notices of the American Mathematical Society, 2015, 62, 330-344.	0.1	8

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91	The instability of jets of arbitrary exit geometry. International Journal for Numerical Methods in Fluids, 1995, 21, 763-780.	0.9	7
92	The Use of an Adjoint Method for Optimization of Blowing in a Convergent-Divergent Nozzle. International Journal of Aeroacoustics, 2015, 14, 327-351.	0.8	7
93	Scaled Demonstration of Fluid Insert Noise Reduction for Tactical Fighter Aircraft Engines. Journal of Aircraft, 2019, 56, 1935-1941.	1.7	7
94	The three-dimensional boundary layer on a rotating helical blade. Journal of Fluid Mechanics, 1981, 112, 283.	1.4	6
95	Prediction of Noise from Jets with Different Nozzle Geometries. , 2004, , .		6
96	Improved Algorithm for Nonlinear Sound Propagation with Aircraft and Helicopter Noise Applications. AIAA Journal, 2010, 48, 2586-2595.	1.5	6
97	Extending On-Demand Noise Reduction to Industry Scale for Tactical Aircraft. , 2016, , .		6
98	Effect of Fluid Inserts on Low Order Models of Jet Noise Reduction. , 2019, , .		6
99	High-order accurate dual time-stepping algorithm for viscous aeroacoustic simulations. , 1998, , .		5
100	Aerodynamic Noise: Theory and Applications. , 0, , 128-158.		5
101	The Prediction of Broadband Shock-Associated Noise from Dualstream and Rectangular Jets Using RANS CFD. , 2010, , .		5
102	Numerical Studies of Wind Turbine Acoustics. , 2012, , .		5
103	Compact Disturbance Equations for Aeroacoustic Simulations. AIAA Journal, 2016, 54, 77-87.	1.5	5
104	Unsteady Simulations of Fluid Inserts for Supersonic Jet Noise Reduction. , 2019, , .		5
105	Coupled crash mechanics and biomechanics of aircraft structures and passengers. Communications in Nonlinear Science and Numerical Simulation, 2021, 101, 105850.	1.7	5
106	Instability of jets of arbitrary geometry. , 1989, , .		4
107	Linear Instability Waves in Supersonic Jets Confined in Circular and Non-Circular Ducts. Journal of Sound and Vibration, 1994, 171, 231-253.	2.1	4
108	High-speed jet noise simulations for noncircular nozzles. , 2001, , .		4

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109	An Experimental Investigation of Density Gradient Fluctuations in High-Speed Jets Using Optical Deflectometry. , 2006, , .		4
110	Numerical computation of the linear convective and absolute stability of free-shear flows. Computers and Fluids, 2006, 35, 1282-1289.	1.3	4
111	The Prediction of Broadband Shock-Associated Noise Including Propagation Effects. , 2011, , .		4
112	Numerical Investigation of the Noise Source Locations of Supersonic Jets Using the Beamformed Method. , 2012, , .		4
113	Optimization of Blowing in a Convergent-Divergent Nozzle for Noise Reduction. , 2014, , .		4
114	Application of Synthetic Array Techniques for Improved Simulations of Hot Supersonic Jet Noise. , 2015, , .		4
115	The Near-Field Acoustics of Supersonic Single and Dual Impinging Jets with Correlations to Far-Field Noise. , 2017, , .		4
116	Conformal grid generation for high aspect ratio simply and doubly connected regions. International Journal for Numerical Methods in Engineering, 1995, 38, 3817-3830.	1.5	3
117	A parallel implementation of a computational aeroacoustic algorithm for airfoil noise. , 1996, , .		3
118	Parallel compact multi-dimensional numerical algorithm with application to aeroacoustics. , 1999, , .		3
119	Trailing-Edge Noise Prediction Using the Nonlinear Disturbance Equations. , 2009, , .		3
120	Simulations of High Speed Impinging Jets. , 2012, , .		3
121	Design and Analysis of a Supersonic Jet Noise Reduction Concept. , 2014, , .		3
122	Design and Analysis of a Supersonic Jet Noise Reduction Concept. Journal of Aircraft, 2017, 54, 1705-1717.	1.7	3
123	Experimental and Numerical Investigation of Jet Noise Reduction Using Fluid Inserts for Rectangular Nozzle with Aspect Ratio of 2. , 2019, , .		3
124	Introduction to the special issue on supersonic jet noise. Journal of the Acoustical Society of America, 2022, 151, 806-816.	0.5	3
125	A linear shock cell model for non-circular jets using conformal mapping with a pseudo-spectral hybrid scheme. , 1990, , .		2
126	Supersonic elliptic jet noise. , 1993, , .		2

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127	Prediction of Acoustic Scattering in the Time Domain Using a Moving Equivalent Source Method. , 2009, , .		2
128	Nonlinear Acoustic Propagation Predictions with Applications to Aircraft and Helicopter Noise. , 2010, , .		2
129	Assessment of Time-Domain Equivalent Source Method for Acoustic Scattering. , 2010, , .		2
130	Toward Efficient Computational Aeroacoustic Analysis of High Speed Jets. , 2013, , .		2
131	Jet Noise. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2013, , 119-196.	0.3	2
132	Application of Synthetic Phased Array Techniques to Hot Supersonic Jet Noise. , 2013, , .		2
133	Analysis of Fluid Insert Noise Reduction Method with PIV. , 2018, , .		2
134	Mean Flow Measurements in Supersonic Jets with Noise Reduction Devices. , 2019, , .		2
135	Nozzle Length and Aft Deck Effects on the Aeroacoustics of Dual Stream Supersonic Jets. , 2020, , .		2
136	Effect of Launchpad Modification on the Hydrodynamic and Acoustic Modes of an Impinging Jet. , 2021, , .		2
137	Shock structure in non-circular jets. , 1989, , .		1
138	The resonance of twin supersonic jets. , 1989, , .		1
139	Direct simulation of acoustic scattering by aircraft wings and bodies. , 1998, , .		1
140	Reprint of: Jet Noise Simulations for Realistic Jet Nozzle Geometries. Procedia IUTAM, 2010, 1, 28-37.	1.2	1
141	Trailing-Edge Noise Prediction Using the Non-Linear Disturbance Equations. , 2011, , .		1
142	Accurate and Efficient Jet Flow and Noise Simulations Using the CDE (Compact Disturbance) Tj ETQq0 0 0 rgBT /Overlock 10 ₁ Tf 50 142 T		1
143	Improved Block Interface Conditions for Aeroacoustic Problems with Grid Discontinuities. AIAA Journal, 2015, 53, 1531-1543.	1.5	1
144	Effectiveness of Fluid Injection on Supersonic Jet Noise at High Exhaust Temperatures. , 2020, , .		1

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145	A generalized quadrature free discontinuous Galerkin method. , 2003, , 2105-2109.		1
146	Noise and Noise Reduction in Supersonic Jets. , 2019, , 85-96.		1
147	Leveraging large eddy simulations to assess noise source imaging of a controlled supersonic jet. International Journal of Aeroacoustics, 2022, 21, 438-456.	0.8	1
148	INSTABILITY WAVE ANALYSIS OF CONFINED SUPERSONIC JETS USING THE FINITE ELEMENT METHOD. Journal of Sound and Vibration, 1996, 198, 455-483.	2.1	0
149	Simulation of Shockwave - Structure Interaction with the Brinkman Penalization Method. , 2004, , .		0
150	Geoffrey M. Lilley: A Very Brief Biography. International Journal of Aeroacoustics, 2010, 9, 373-385.	0.8	0
151	Simulations and Measurements of the Flow and Noise in Hot Supersonic Jets. , 2011, , .		0
152	Numerical simulation of the effect of a low bypass cooling stream on supersonic jet noise. , 2014, , .		0
153	Experimental and Numerical Study of Hard-wall Corrugations for Supersonic Jet Noise Reduction. , 2017, , .		0
154	Dennis K. McLaughlin: Some history and achievements. International Journal of Aeroacoustics, 2018, 17, 7-21.	0.8	0
155	Aeroacoustic and Flow Field Characterization of Dual Stream Rectangular Supersonic Jets. , 2019, , .		0