

# Philip J Morris

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7012502/publications.pdf>

Version: 2024-02-01

155  
papers

4,010  
citations

147566

31  
h-index

143772

57  
g-index

158  
all docs

158  
docs citations

158  
times ranked

1110  
citing authors

#	ARTICLE	IF	CITATIONS
1	Introduction to the special issue on supersonic jet noise. Journal of the Acoustical Society of America, 2022, 151, 806-816.	0.5	3
2	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
3	Effect of Launchpad Modification on the Hydrodynamic and Acoustic Modes of an Impinging Jet. , 2021, , .		2
4	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
5	Coupled crash mechanics and biomechanics of aircraft structures and passengers. Communications in Nonlinear Science and Numerical Simulation, 2021, 101, 105850.	1.7	5
6	Effectiveness of Fluid Injection on Supersonic Jet Noise at High Exhaust Temperatures. , 2020, , .		1
7	A study of noise reduction mechanisms of jets with fluid inserts. Journal of Sound and Vibration, 2020, 476, 115331.	2.1	31
8	Nozzle Length and Aft Deck Effects on the Aeroacoustics of Dual Stream Supersonic Jets. , 2020, , .		2
9	Scaled Demonstration of Fluid Insert Noise Reduction for Tactical Fighter Aircraft Engines. Journal of Aircraft, 2019, 56, 1935-1941.	1.7	7
10	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
11	Experimental and Numerical Investigation of Jet Noise Reduction Using Fluid Inserts for Rectangular Nozzle with Aspect Ratio of 2. , 2019, , .		3
12	Effect of Fluid Inserts on Low Order Models of Jet Noise Reduction. , 2019, , .		6
13	Unsteady Simulations of Fluid Inserts for Supersonic Jet Noise Reduction. , 2019, , .		5
14	Aeroacoustic and Flow Field Characterization of Dual Stream Rectangular Supersonic Jets. , 2019, , .		0
15	Mean Flow Measurements in Supersonic Jets with Noise Reduction Devices. , 2019, , .		2
16	Noise and Noise Reduction in Supersonic Jets. , 2019, , 85-96.		1
17	Dennis K. McLaughlin: Some history and achievements. International Journal of Aeroacoustics, 2018, 17, 7-21.	0.8	0
18	Noise Reduction in Supersonic Jets Exhausting over a Simulated Aircraft Carrier Deck. Journal of Aircraft, 2018, 55, 310-324.	1.7	12

#	ARTICLE	IF	CITATIONS
19	Analysis of Fluid Insert Noise Reduction Method with PIV. , 2018, , .		2
20	The Near-Field Acoustics of Supersonic Single and Dual Impinging Jets with Correlations to Far-Field Noise. , 2017, , .		4
21	Further Development of Supersonic Jet Noise Reduction Using Nozzle Fluidic Inserts. , 2017, , .		14
22	Design and Analysis of a Supersonic Jet Noise Reduction Concept. Journal of Aircraft, 2017, 54, 1705-1717.	1.7	3
23	Experimental and Numerical Study of Hard-wall Corrugations for Supersonic Jet Noise Reduction. , 2017, , .		0
24	Experimental Results for Supersonic Jet Noise Reduction using Nozzle Fluidic Inserts. , 2017, , .		13
25	Experimental and Numerical Study of Injector Design and Operation on Supersonic Jet Noise Reduction Using Fluidic Corrugations. , 2016, , .		9
26	Extending On-Demand Noise Reduction to Industry Scale for Tactical Aircraft. , 2016, , .		6
27	Mean Velocity and Turbulence Measurements of Supersonic Jets with Fluidic Inserts. , 2016, , .		12
28	Numerical Simulations for Supersonic Jet Noise Reduction Using Fluidic Inserts. , 2016, , .		13
29	Investigation of laminar to turbulent transition phenomena effects on impingement heat transfer. Heat and Mass Transfer, 2016, 52, 2027-2036.	1.2	8
30	Compact Disturbance Equations for Aeroacoustic Simulations. AIAA Journal, 2016, 54, 77-87.	1.5	5
31	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
32	Effects of Jet Temperature on Broadband Shock-Associated Noise. AIAA Journal, 2015, 53, 1515-1530.	1.5	30
33	The separation of radiating and non-radiating near-field pressure fluctuations in supersonic jets. Journal of Sound and Vibration, 2015, 355, 172-187.	2.1	15
34	Noise Reduction with Fluidic Inserts in Supersonic Jets Exhausting Over a Simulated Aircraft Carrier Deck. , 2015, , .		14
35	Improved Block Interface Conditions for Aeroacoustic Problems with Grid Discontinuities. AIAA Journal, 2015, 53, 1531-1543.	1.5	1
36	Noise Reduction in Supersonic Jets from Rectangular Convergent-Divergent Nozzles. , 2015, , .		11

#	ARTICLE	IF	CITATIONS
37	Application of Synthetic Array Techniques for Improved Simulations of Hot Supersonic Jet Noise. , 2015, , .		4
38	Malaysia Airlines Flight MH370: Water Entry of an Airliner. Notices of the American Mathematical Society, 2015, 62, 330-344.	0.1	8
39	Prediction, Experiments and Optimization of High-Speed Jet Noise Reduction Using Fluidic Inserts. , 2014, , .		12
40	Design and Analysis of a Supersonic Jet Noise Reduction Concept. , 2014, , .		3
41	Supersonic Jet Noise Reduction by Nozzle Fluidic Inserts with Simulated Forward Flight. , 2014, , .		21
42	Numerical simulation of the effect of a low bypass cooling stream on supersonic jet noise. , 2014, , .		0
43	Optimization of Blowing in a Convergent-Divergent Nozzle for Noise Reduction. , 2014, , .		4
44	Accurate and Efficient Jet Flow and Noise Simulations Using the CDE (Compact Disturbance) Turbulence Model. Journal of Computational Physics, 2014, 271, 1-15.		1
45	OpenFOAM for Computational Fluid Dynamics. Notices of the American Mathematical Society, 2014, 61, 354.	0.1	83
46	Noise reduction in supersonic jets by nozzle fluidic inserts. Journal of Sound and Vibration, 2013, 332, 3992-4003.	2.1	68
47	Toward Efficient Computational Aeroacoustic Analysis of High Speed Jets. , 2013, , .		2
48	Jet Noise. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2013, , 119-196.	0.3	2
49	Experimental Investigation of Near-Field Pressure Fluctuations Generated by Supersonic Jets. , 2013, , .		25
50	Application of Synthetic Phased Array Techniques to Hot Supersonic Jet Noise. , 2013, , .		2
51	Time-Domain Approach for Acoustic Scattering of Rotorcraft Noise. Journal of the American Helicopter Society, 2012, 57, 1-12.	0.5	26
52	Numerical Investigation of the Noise Source Locations of Supersonic Jets Using the Beamformed Method. , 2012, , .		4
53	Axisymmetry and azimuthal modes in jet noise. , 2012, , .		12
54	Simulations of High Speed Impinging Jets. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
55	The Prediction of Broadband Shock-Associated Noise Including Propagation Effects. International Journal of Aeroacoustics, 2012, 11, 755-781.	0.8	21
56	Numerical Studies of Wind Turbine Acoustics. , 2012, , .		5
57	Simulations and measurements of the flow and noise in hot supersonic jets. Noise Control Engineering Journal, 2012, 60, 577-594.	0.2	9
58	The Prediction of Broadband Shock-Associated Noise Including Propagation Effects. , 2011, , .		4
59	Assessment of Time-Domain Equivalent Source Method for Acoustic Scattering. AIAA Journal, 2011, 49, 1897-1906.	1.5	41
60	Simulations and Measurements of the Flow and Noise in Hot Supersonic Jets. , 2011, , .		0
61	Effects of Supersonic Jet Conditions on Broadband Shock-Associated Noise. , 2011, , .		14
62	Noise simulations of supersonic hot jets for chevron nozzles. , 2011, , .		9
63	Trailing-Edge Noise Prediction Using the Non-Linear Disturbance Equations. , 2011, , .		1
64	CFD Analysis of Gear Windage Losses: Validation and Parametric Aerodynamic Studies. Journal of Fluids Engineering, Transactions of the ASME, 2011, 133, .	0.8	51
65	The Instability of High Speed Jets. International Journal of Aeroacoustics, 2010, 9, 1-50.	0.8	68
66	Geoffrey M. Lilley: A Very Brief Biography. International Journal of Aeroacoustics, 2010, 9, 373-385.	0.8	0
67	Jet noise simulations for realistic jet nozzle geometries. Procedia Engineering, 2010, 6, 28-37.	1.2	9
68	Velocity measurements in jets with application to noise source modeling. Journal of Sound and Vibration, 2010, 329, 394-414.	2.1	109
69	Reprint of: Jet Noise Simulations for Realistic Jet Nozzle Geometries. Procedia IUTAM, 2010, 1, 28-37.	1.2	1
70	Beamformed Flow-Acoustic Correlations in a Supersonic Jet. AIAA Journal, 2010, 48, 2445-2453.	1.5	34
71	Improved Algorithm for Nonlinear Sound Propagation with Aircraft and Helicopter Noise Applications. AIAA Journal, 2010, 48, 2586-2595.	1.5	6
72	Framework for a Landing-Gear Model and Acoustic Prediction. Journal of Aircraft, 2010, 47, 763-774.	1.7	12

#	ARTICLE	IF	CITATIONS
73	Prediction of Broadband Shock-Associated Noise Using Reynolds-Averaged Navier-Stokes Computational Fluid Dynamics. AIAA Journal, 2010, 48, 2931-2944.	1.5	60
74	Acoustic Scattering in the Time Domain Using an Equivalent Source Method. AIAA Journal, 2010, 48, 2772-2780.	1.5	55
75	Nonlinear Acoustic Propagation Predictions with Applications to Aircraft and Helicopter Noise. , 2010, , .		2
76	The Prediction of Broadband Shock-Associated Noise from Dualstream and Rectangular Jets Using RANS CFD. , 2010, , .		5
77	Two Component Velocity Correlations in Jets and Noise Source Modeling. , 2010, , .		8
78	Assessment of Time-Domain Equivalent Source Method for Acoustic Scattering. , 2010, , .		2
79	Assessment of Computational Fluid Dynamics for Supersonic Shock Containing Jets. AIAA Journal, 2009, 47, 2738-2746.	1.5	15
80	Analytic formulation and numerical implementation of an acoustic pressure gradient prediction. Journal of Sound and Vibration, 2009, 319, 1200-1221.	2.1	75
81	Algorithm for the Nonlinear Propagation of Broadband Jet Noise. AIAA Journal, 2009, 47, 186-194.	1.5	32
82	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
83	Trailing-Edge Noise Prediction Using the Nonlinear Disturbance Equations. , 2009, , .		3
84	Beamformed Flow-Acoustic Correlations in High-Speed Jets. , 2009, , .		9
85	Prediction of Acoustic Scattering in the Time Domain Using a Moving Equivalent Source Method. , 2009, , .		2
86	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
87	An Experimental Investigation of Density Gradient Fluctuations in High-Speed Jets Using Optical Deflectometry. , 2006, , .		4
88	Use of Finite Element Methods in Frequency Domain Aeroacoustics. AIAA Journal, 2006, 44, 1643-1652.	1.5	56
89	Prediction Method for Broadband Noise from Unsteady Flow in a Slat Cove. AIAA Journal, 2006, 44, 301-310.	1.5	23
90	Numerical computation of the linear convective and absolute stability of free-shear flows. Computers and Fluids, 2006, 35, 1282-1289.	1.3	4

#	ARTICLE	IF	CITATIONS
91	A Review of Parallel Computing in Computational Aeroacoustics. International Journal of Computational Fluid Dynamics, 2004, 18, 493-502.	0.5	9
92	Simulation of Shockwave - Structure Interaction with the Brinkman Penalization Method. , 2004, , .		0
93	An Aeroacoustic Analysis of Wind Turbines. , 2004, , .		17
94	Prediction of Noise from Jets with Different Nozzle Geometries. , 2004, , .		6
95	Calculation of Sound Propagation in Nonuniform Flows: Suppression of Instability Waves. AIAA Journal, 2004, 42, 80-88.	1.5	100
96	The Prediction of Jet Noise from CFD Data. , 2004, , .		46
97	A generalized quadrature free discontinuous Galerkin method. , 2003, , 2105-2109.		1
98	Simulations of Supersonic Jet Noise. International Journal of Aeroacoustics, 2002, 1, 17-41.	0.8	39
99	Acoustic Analogy and Alternative Theories for Jet Noise Prediction. AIAA Journal, 2002, 40, 671-680.	1.5	182
100	Comparison of two- and three-dimensional turbulent cavity flows. , 2001, , .		38
101	High-speed jet noise simulations for noncircular nozzles. , 2001, , .		4
102	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
103	Direct Simulation of Acoustic Scattering by Two- and Three-Dimensional Bodies. Journal of Aircraft, 2000, 37, 68-75.	1.7	17
104	Large-eddy simulation of wall bounded shear flow using the nonlinear disturbance equations. , 2000, , .		14
105	Jet noise simulations for circular nozzles. , 2000, , .		15
106	Parallel computations of high speed jet noise. , 1999, , .		10
107	Parallel compact multi-dimensional numerical algorithm with application to aeroacoustics. , 1999, , .		3
108	Direct simulation of acoustic scattering by aircraft wings and bodies. , 1998, , .		1

#	ARTICLE	IF	CITATIONS
109	High-order accurate dual time-stepping algorithm for viscous aeroacoustic simulations. , 1998, , .		5
110	High speed jet noise simulations. , 1998, , .		13
111	Acoustic Scattering from Two- and Three-Dimensional Bodies. Journal of Computational Acoustics, 1998, 06, 357-375.	1.0	19
112	Numerical Study of Nozzle Exit Condition Effects on Jet Development. AIAA Journal, 1998, 36, 986-993.	1.5	8
113	Wing-Tip Vortex Calculations Using a High-Accuracy Scheme. Journal of Aircraft, 1998, 35, 728-738.	1.7	8
114	Radiated Noise from Airfoils in Realistic Mean Flows. AIAA Journal, 1998, 36, 907-914.	1.5	95
115	A Parallel Implementation of a Computational Aeroacoustic Algorithm for Airfoil Noise. Journal of Computational Acoustics, 1997, 05, 337-353.	1.0	15
116	Numerical predictions of high speed jet noise. , 1997, , .		21
117	A Parallel Three-Dimensional Computational Aeroacoustics Method Using Nonlinear Disturbance Equations. Journal of Computational Physics, 1997, 133, 56-74.	1.9	120
118	A parallel implementation of a computational aeroacoustic algorithm for airfoil noise. , 1996, , .		3
119	INSTABILITY WAVE ANALYSIS OF CONFINED SUPERSONIC JETS USING THE FINITE ELEMENT METHOD. Journal of Sound and Vibration, 1996, 198, 455-483.	2.1	0
120	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
121	The instability of jets of arbitrary exit geometry. International Journal for Numerical Methods in Fluids, 1995, 21, 763-780.	0.9	7
122	The spatial stability of compressible elliptic jets. Physics of Fluids, 1995, 7, 185-194.	1.6	25
123	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
124	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
125	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
126	Supersonic elliptic jet noise. , 1993, , .		2



#	ARTICLE	IF	CITATIONS
127	Effect of compliant walls on secondary instabilities in boundary-layer transition. AIAA Journal, 1992, 30, 332-339.	1.5	41
128	Weakly nonlinear models for turbulent mixing in a plane mixing layer. Physics of Fluids A, Fluid Dynamics, 1992, 4, 2798-2808.	1.6	14
129	The eigenvalue spectrum of the Rayleigh equation for a plane shear layer. International Journal for Numerical Methods in Fluids, 1992, 15, 1407-1415.	0.9	16
130	Role of three-dimensional instabilities in compliant wall boundary-layer transition. AIAA Journal, 1991, 29, 1603-1610.	1.5	44
131	Instability waves in twin supersonic jets. Journal of Fluid Mechanics, 1990, 220, 293-307.	1.4	43
132	The effect of anisotropic wall compliance on boundary-layer stability and transition. Journal of Fluid Mechanics, 1990, 218, 171.	1.4	114
133	A linear shock cell model for non-circular jets using conformal mapping with a pseudo-spectral hybrid scheme. , 1990, , .		2
134	Turbulent mixing in plane and axisymmetric shear layers. , 1990, , .		9
135	A linear shock cell model for jets of arbitrary exit geometry. Journal of Sound and Vibration, 1989, 132, 199-211.	2.1	50
136	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
137	Shock structure in non-circular jets. , 1989, , .		1
138	The resonance of twin supersonic jets. , 1989, , .		1
139	Instability of jets of arbitrary geometry. , 1989, , .		4
140	A note on the effect of forward flight on shock spacing in circular jets. Journal of Sound and Vibration, 1988, 122, 175-177.	2.1	16
141	Instability of elliptic jets. AIAA Journal, 1988, 26, 172-178.	1.5	33
142	Boundary layer stability calculations. Physics of Fluids, 1987, 30, 3351.	1.4	17
143	Tone excited jets, part V: A theoretical model and comparison with experiment. Journal of Sound and Vibration, 1985, 102, 119-151.	2.1	66
144	The noise from normal-velocity-profile coannular jets. Journal of Sound and Vibration, 1985, 98, 213-234.	2.1	38

#	ARTICLE	IF	CITATIONS
145	Differential eigenvalue problems in which the parameter appears nonlinearly. Journal of Computational Physics, 1984, 55, 437-460.	1.9	195
146	Viscous stability of compressible axisymmetric jets. AIAA Journal, 1983, 21, 481-482.	1.5	29
147	The three-dimensional boundary layer on a rotating helical blade. Journal of Fluid Mechanics, 1981, 112, 283.	1.4	6
148	Stability of a two-dimensional jet. AIAA Journal, 1981, 19, 857-862.	1.5	9
149	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
150	Measurements in subsonic and supersonic free jets using a laser velocimeter. Journal of Fluid Mechanics, 1979, 93, 1-27.	1.4	328
151	In-flight simulation experiments on turbulent jet mixing noise. Journal of Sound and Vibration, 1977, 53, 389-405.	2.1	36
152	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
153	The spatial viscous instability of axisymmetric jets. Journal of Fluid Mechanics, 1976, 77, 511-529.	1.4	183
154	Turbulence Measurements in Subsonic and Supersonic Axisymmetric Jets in a Parallel Stream. AIAA Journal, 1976, 14, 1468-1475.	1.5	51
155	Aerodynamic Noise: Theory and Applications. , 0, , 128-158.		5