Mo Samimy

List of Publications by Year
in descending order

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168	6,852	66343	64796
papers	citations	42 h-index	79 g-index

169	169	169	1547
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Motion of particles with inertia in a compressible free shear layer. Physics of Fluids A, Fluid Dynamics, 1991, 3, 1915-1923.	1.6	411
2	Control of an axisymmetric jet using vortex generators. Physics of Fluids, 1994, 6, 778-793.	4.0	387
3	Active control of high-speed and high-Reynolds-number jets using plasma actuators. Journal of Fluid Mechanics, 2007, 578, 305-330.	3.4	370
4	Effect of tabs on the flow and noise field of an axisymmetric jet. AIAA Journal, 1993, 31, 609-619.	2.6	317
5	Separation Control with Nanosecond-Pulse-Driven Dielectric Barrier Discharge Plasma Actuators. AIAA Journal, 2012, 50, 350-365.	2.6	288
6	Plasma assisted ignition and high-speed flow control: non-thermal and thermal effects. Plasma Sources Science and Technology, 2009, 18, 034018.	3.1	238
7	Development and characterization of plasma actuators for high-speed jet control. Experiments in Fluids, 2004, 37, 577-588.	2.4	237
8	Compressibility effects in free shear layers. Physics of Fluids A, Fluid Dynamics, 1990, 2, 1231-1240.	1.6	217
9	Effects of compressibility on the characteristics of free shear layers. AIAA Journal, 1990, 28, 439-445.	2.6	214
10	Development and use of localized arc filament plasma actuators for high-speed flow control. Journal Physics D: Applied Physics, 2007, 40, 685-694.	2.8	189
11	Active Control of a Mach 0.9 Jet for Noise Mitigation Using Plasma Actuators. AIAA Journal, 2007, 45, 890-901.	2.6	188
12	The evolution of a jet with vortex-generating tabs: real-time visualization and quantitative measurements. Journal of Fluid Mechanics, 1996, 311, 73.	3.4	170
13	Large-scale structure evolution and sound emission in high-speed jets: real-time visualization with simultaneous acoustic measurements. Journal of Fluid Mechanics, 2005, 544, 277.	3.4	159
14	High-lift airfoil trailing edge separation control using a single dielectric barrier discharge plasma actuator. Experiments in Fluids, 2010, 48, 521-537.	2.4	125
15	Feedback control of subsonic cavity flows using reduced-order models. Journal of Fluid Mechanics, 2007, 579, 315-346.	3.4	105
16	Control of oblique shock wave/boundary layer interactions using plasma actuators. Experiments in Fluids, 2013, 54, 1.	2.4	102
17	High-Speed and High-Reynolds-Number Jet Control Using Localized Arc Filament Plasma Actuators. Journal of Propulsion and Power, 2012, 28, 269-280.	2.2	101
18	High-Lift Airfoil Separation with Dielectric Barrier Discharge Plasma Actuation. AIAA Journal, 2010, 48, 2884-2898.	2.6	96

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19	Coherent structures in plasma-actuator controlled supersonic jets: Axisymmetric and mixed azimuthal modes. Physics of Fluids, 2011, 23, .	4.0	88
20	The characteristics and evolution of largeâ€scale structures in compressible mixing layers. Physics of Fluids, 1995, 7, 864-876.	4.0	87
21	Development and Characterization of Hartmann Tube Fluidic Actuators for High-Speed Flow Control. AIAA Journal, 2002, 40, 1926-1934.	2.6	87
22	Flow Separation Control Using Nanosecond Pulse Driven DBD Plasma Actuators. International Journal of Flow Control, 2011, 3, 213-232.	0.4	86
23	Acoustic and flow fields of an excited high Reynolds number axisymmetric supersonic jet. Journal of Fluid Mechanics, 2010, 656, 507-529.	3.4	83
24	Active Control of a High Reynolds Number Mach 0.9 Axisymmetric Jet. AIAA Journal, 2009, 47, 116-128.	2.6	82
25	Compressibility effects on large structures in free shear flows. Physics of Fluids A, Fluid Dynamics, 1992, 4, 1251-1258.	1.6	80
26	Study of compressible mixing layers using filtered Rayleigh scattering based visualizations. AIAA Journal, 1992, 30, 2567-2569.	2.6	71
27	Mixing enhancement via nozzle trailing edge modifications in a high speed rectangular jet. Physics of Fluids, 1999, 11, 2731-2742.	4.0	69
28	Control of a high Reynolds number Mach 0.9 heated jet using plasma actuators. Physics of Fluids, 2009, 21, .	4.0	66
29	Effects of Nozzle Trailing Edges on Acoustic Field of Supersonic Rectangular Jet. AIAA Journal, 2001, 39, 1065-1070.	2.6	57
30	Structure of Supersonic Turbulent Boundary Layer After Expansion Regions. AIAA Journal, 1995, 33, 430-438.	2.6	54
31	The effects of expansion on the turbulence structure of compressible boundary layers. Journal of Fluid Mechanics, 1998, 367, 67-105.	3.4	54
32	Intermittent Nature of Subsonic Jet Noise. AIAA Journal, 2013, 51, 1142-1155.	2.6	53
33	Development of Megahertz-Rate Planar Doppler Velocimetry for High Speed Flows. AIAA Journal, 2005, 43, 500-511.	2.6	52
34	Control of Supersonic Cavity Flow Using Plasma Actuators. AIAA Journal, 2017, 55, 3346-3355.	2.6	51
35	Turbulence Structures and the Acoustic Far Field of a Mach 1.3 Jet. AIAA Journal, 2001, 39, 1716-1727.	2.6	49
36	Development of localized arc filament RF plasma actuators for high-speed and high Reynolds number flow control. Experiments in Fluids, 2010, 49, 497-511.	2.4	47

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37	Flow Separation Control over an Airfoil with Nanosecond Pulse Driven DBD Plasma Actuators. , 2011, , .		47
38	Comparison of Noise Mechanisms in High and Low Reynolds Number High-Speed Jets. AIAA Journal, 2006, 44, 2251-2258.	2.6	46
39	A study of Mach wave radiation using active control. Journal of Fluid Mechanics, 2011, 681, 261-292.	3.4	46
40	On factors influencing arc filament plasma actuator performance in control of high speed jets. Experiments in Fluids, 2011, 51, 1591-1603.	2.4	46
41	The impulse response of a high-speed jet forced with localized arc filament plasma actuators. Physics of Fluids, 2012, 24, .	4.0	46
42	Logic-Based Active Control of Subsonic Cavity Flow Resonance. AIAA Journal, 2004, 42, 1901-1909.	2.6	45
43	Exploring Physics and Control of Twin Supersonic Circular Jets. AIAA Journal, 2017, 55, 68-85.	2.6	44
44	On streamwise vortices in high Reynolds number supersonic axisymmetric jets. Physics of Fluids A, Fluid Dynamics, 1993, 5, 187-202.	1.6	43
45	Noise Control of a High Reynolds Number High Speed Heated Jet Using Plasma Actuators. International Journal of Aeroacoustics, 2011, 10, 635-658.	1.3	43
46	Nanosecond Pulse Surface Discharges for High-Speed Flow Control. , 2012, , .		42
47	Control of Dynamic Stall over a NACA 0015 Airfoil Using Plasma Actuators. AIAA Journal, 2018, 56, 78-89.	2.6	42
48	Excitation of Free Shear-Layer Instabilities for High-Speed Flow Control. AIAA Journal, 2018, 56, 1770-1791.	2.6	41
49	Application of Laser Velocimetry for Characterization of Confined Swirling Flow. Journal of Engineering for Gas Turbines and Power, 1989, 111, 36-45.	1.1	40
50	Control of High Subsonic Cavity Flow Using Plasma Actuators. AIAA Journal, 2014, 52, 1542-1554.	2.6	37
51	Laser Doppler velocity bias in separated turbulent flows. Experiments in Fluids, 2004, 6, 80-88.	2.4	35
52	Extremum-Seeking Control of Subsonic Cavity Flow. AIAA Journal, 2009, 47, 195-205.	2.6	34
53	Extremizing Feedback Control of a High-Speed and High Reynolds Number Jet. AIAA Journal, 2010, 48, 387-399.	2.6	34
54	High Lift Airfoil Leading Edge Separation Control with Nanosecond Pulse DBD Plasma Actuators. , 2010, , .		33

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55	Rayleigh scattering technique for simultaneous measurements of velocity and thermodynamic properties. AIAA Journal, 1996, 34, 2346-2352.	2.6	32
56	Development and evaluation of a 3-D microphone array to locate individual acoustic sources in a high-speed jet. Journal of Sound and Vibration, 2004, 276, 649-669.	3.9	31
57	Experimental Study of Linear Closed-Loop Control of Subsonic Cavity Flow. AIAA Journal, 2006, 44, 929-938.	2.6	31
58	Exploring Noise Sources Using Simultaneous Acoustic Measurements and Real-Time Flow Visualizations in Jets. AIAA Journal, 2002, 40, 2382-2392.	2.6	29
59	Effects of expansions on a supersonic boundary layer - Surface pressure measurements. AIAA Journal, 1994, 32, 2169-2177.	2.6	28
60	Reinventing the wheel: excitation of flow instabilities for active flow control using plasma actuators. Journal Physics D: Applied Physics, 2019, 52, 354002.	2.8	28
61	Effects of Vortex Generating Tabs on Noise Sources in an Ideally Expanded Mach 1.3 Jet. International Journal of Aeroacoustics, 2003, 2, 35-63.	1.3	27
62	Supersonic Inlet Flow Control Using Plasma Actuators. , 2009, , .		27
63	Active Control of High Speed and High Reynolds Number Free Jets Using Plasma Actuators. , 2006, , .		25
64	Streamwise structures in a turbulent supersonic boundary layer. Physics of Fluids, 1994, 6, 1081-1083.	4.0	23
65	Exploring High-Speed Axisymmetric Jet Noise Control Using Hartmann Tube Fluidic Actuators. , 2004, , .		23
66	Experimental study of isothermal swirling flows in a dump combustor. AIAA Journal, 1988, 26, 1442-1449.	2.6	19
67	Dual stream axisymmetric mixing in the presence of axial vorticity. Journal of Propulsion and Power, 1996, 12, 178-185.	2.2	19
68	Application of Proper Orthogonal Decomposition to a Supersonic Axisymmetric Jet. AIAA Journal, 2003, 41, 866-877.	2.6	19
69	Control Input Separation Methods for Reduced-Order Model-Based Feedback Flow Control. AIAA Journal, 2008, 46, 2306-2322.	2.6	19
70	Near-Field and Acoustic Far-Field Response of a High-Speed Jet to Excitation. AIAA Journal, 2015, 53, 1894-1909.	2.6	19
71	A Study of the Correlation of Large-Scale Structure Dynamics and Far-Field Radiated Noise in an Excited Mach 0.9 Jet. International Journal of Aeroacoustics, 2009, 8, 231-259.	1.3	18
72	Flow Control over an Airfoil in Fully Reversed Condition Using Plasma Actuators. AIAA Journal, 2016, 54, 141-149.	2.6	18

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73	Effects of excitation around jet preferred mode Strouhal number in high-speed jets. Experiments in Fluids, 2017, 58, 1.	2.4	17
74	Dispersion of solid particles in compressible mixing layers. Journal of Propulsion and Power, 1993, 9, 83-89.	2.2	16
75	Preliminary Results on Shock Wave/Boundary Layer Interaction Control Using Localized Arc Filament Plasma Actuators. , 2011, , .		16
76	Active Control of High Speed Jets Using Localized Arc Filament Plasma Actuators. , 2004, , .		15
77	Vortex dynamics and sound emission in excitedÂhigh-speed jets. Journal of Fluid Mechanics, 2018, 839, 313-347.	3.4	15
78	Intermittent modal coupling in screeching underexpanded circular twin jets. Journal of Fluid Mechanics, 2021, 910, .	3.4	15
79	Effects of Active Control on the Flow Structure in a High Reynolds Number Supersonic Jet. International Journal of Flow Control, 2009, 1, 99-117.	0.4	15
80	Effect of plasma-based azimuthal mode excitation on supersonic jet flow. , 2010, , .		14
81	Initial Development of Reduced-Order Models for Feedback Control of Axisymmetric Jets. International Journal of Flow Control, 2010, 2, 39-60.	0.4	14
82	Two-component planar Doppler velocimetry in the compressible turbulent boundary layer. Experiments in Fluids, 1998, 24, 323-332.	2.4	13
83	Flow and Noise Control in High Speed and High Reynolds Number Jets Using Plasma Actuators. , 2006, , .		13
84	Active Control of High Subsonic Jets. , 2007, , .		12
85	Effects of nozzle geometry on parallel injection into a supersonic flow. Journal of Propulsion and Power, 1996, 12, 1159-1168.	2.2	11
86	Development and characterization of Hartmann Tube based fluidic actuators for high-speed flow control. , 2002, , .		11
87	Mach Number Effects on Jet Noise Sources and Radiation to Shallow Angles. AIAA Journal, 2006, 44, 1915-1918.	2.6	11
88	Molecular tagging velocimetry measurements in supersonic microjets. AIAA Journal, 2002, 40, 1065-1070.	2.6	11
89	Separation Control from the Flap of a High-Lift Airfoil Using DBD Plasma Actuators. , 2009, , .		10
90	Noise Control of a High Reynolds Number Mach 0.9 Heated Jet Using Plasma Actuators. , 2009, , .		10

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91	Noise Control of High Reynolds Number Mach 1.3 Heated Jet Using Plasma Actuators. , 2010, , .		10
92	Flow Control of a High Reynolds Number Mach 1.3 Heated Jet Using Plasma Actuators. , 2010, , .		10
93	Acoustic source localization using a 3-D microphone array in a Mach 1.3 jet. , 2002, , .		9
94	Decomposition of the Near-Field Pressure in an Excited Subsonic Jet. , 2014, , .		9
95	Effects of nozzle trailing edges on acoustic field of supersonic rectangular jet. AIAA Journal, 2001, 39, 1065-1070.	2.6	9
96	Performance of laser Doppler velocimeter with polydisperse seed particles in high-speed flows. Journal of Propulsion and Power, 1989, 5, 21-25.	2.2	8
97	High Speed and High Reynolds Number Jet Control Using Arc Filament Plasma Actuators for Noise Mitigation and for Flow and Noise Diagnostics. , 2011, , .		8
98	Development of Empirical Estimators for Feedback Control of High-Speed Axisymmetric Jets. AIAA Journal, 2011, 49, 1971-1987.	2.6	8
99	Control of a Supersonic Rectangular Jet Using Plasma Actuators. , 2012, , .		8
100	Flow Separation Control over a Boeing Vertol VR-7 using NS-DBD Plasma Actuators. , 2016, , .		8
101	Stall cell formation over a post-stall airfoil: effects of active perturbations using plasma actuators. Experiments in Fluids, 2018, 59, 1.	2.4	8
102	Flow Separation Control over a Thin Post-Stall Airfoil: Effects of Excitation Frequency. AIAA Journal, 2019, 57, 1826-1838.	2.6	8
103	An experimental investigation of deep dynamic stall control using plasma actuators. Experiments in Fluids, 2022, 63, 1.	2.4	8
104	The Effects of Active Control on Near-Field Pressure Fluctuations in Supersonic Rectangular Twin Jets. , 2022, , .		8
105	Investigation of the effect of tabs on supersonic jets using advanced diagnostics. Journal of Propulsion and Power, 1996, 12, 742-751.	2.2	7
106	Modeling of subsonic cavity flows by neural networks. , 0, , .		7
107	Infinite dimensional and reduced order observers for Burgers equation. International Journal of Control, 2005, 78, 864-874.	1.9	7
108	Active Control of Noise in Supersonic Jets Using Plasma Actuators. , 2009, , .		7

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109	Noise Mitigation in High Speed and High Reynolds Number Jets Using Plasma Actuators. , 2007, , .		6
110	On the Development of Localized Arc Filament Plasma Actuators for High Speed Flow Control. , 2009, , .		6
111	Identification of the acoustic response in the irrotational near-field of an excited subsonic jet. International Journal of Aeroacoustics, 2016, 15, 496-514.	1.3	6
112	Review of planar multiple-component velocimetry in high-speed Flows. AIAA Journal, 2000, 38, 553-574.	2.6	6
113	Characterization of Localized Arc Filament Plasma Actuators Used for High-speed Flow Control. , 2007, , .		5
114	Dynamic Compensation of a Synthetic Jetlike Actuator for Closed-Loop Cavity Flow Control. AIAA Journal, 2008, 46, 232-240.	2.6	5
115	Control of High Subsonic Cavity Flow Using Plasma Actuators. , 2013, , .		5
116	Correlation of Irrotational Near-Field Pressure and Far-Field Acoustic in Forced High-Speed Jets. , 2013, , .		5
117	Development and characterization of Hartmann tube fluidic actuators for high-speed flow control. AIAA Journal, 2002, 40, 1926-1934.	2.6	5
118	Nonaxisymmetric instabilities in a dump combustor with a swirling inlet flow. Journal of Propulsion and Power, 1990, 6, 78-84.	2.2	4
119	Toward Noise Mitigation in High Speed and High Reynolds Number Jets Using Plasma Actuators. , 2006, , .		4
120	Active Noise Control in Jets from Conical and Contoured Supersonic Nozzles with Plasma Actuators. , 2009, , .		4
121	Development of Empirical Reduced-Order Models for Feedback Control of Axisymmetric Jets. , 2010, , .		4
122	Effects of Ring Groove and Duty Cycle on Plasma Actuator Performance in High Speed Jets. , 2011, , .		4
123	An Investigation of Twin Supersonic Jets' Near-field. , 2015, , .		4
124	Vortex Dynamics and Sound Emission in an Excited High-Speed Jet. , 2016, , .		4
125	Unsteady Flow Separation Control over a NACA 0015 using NS-DBD Plasma Actuators. , 2017, , .		4
126	Mixing processes in a coaxial geometry with a central lobed mixer-nozzle. AIAA Journal, 1997, 35, 838-841.	2.6	4

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127	Two-component planar Doppler velocimetry in high speed flows. AIAA Journal, 1997, 35, 1729-1738.	2.6	4
128	Passive control of supersonic rectangular jets via nozzle trailing-edge modifications. AIAA Journal, 1998, 36, 1230-1239.	2.6	4
129	A MHz rate imaging system for study of turbulent and time evolving high speed flows. , 0, , .		3
130	Comparison of Noise Sources in High and Low Reynolds Number High Speed Jets. , 2005, , .		3
131	Noise Sources in Controlled High Reynolds Number and High Speed Jets. , 2006, , .		3
132	Experimental Results and Bifurcation Analysis on Scaled Feedback Control for Subsonic Cavity Flows. , 2006, , .		3
133	The Impulse Response of a High-Speed Jet Forced with Localized Arc Filament Plasma Actuators. , 2012, , .		3
134	An Investigation of the Irrotational Near Field of an Excited High-Speed Jet. , 2013, , .		3
135	Time-Domain Analysis of Excited Subsonic Jet Noise. International Journal of Aeroacoustics, 2013, 12, 387-421.	1.3	3
136	Control of a Non-Resonating Supersonic Cavity Using Plasma Actuators. , 2016, , .		3
137	On mixing enhancement via nozzle trailing-edge modifications in high-speed jets. AIAA Journal, 2000, 38, 935-937.	2.6	3
138	Structure of a reattaching supersonic shear layer. AIAA Journal, 1990, 28, 969-970.	2.6	2
139	Lobed Mixers Using Simultaneous Laser-Induced Fluorescence and Mie Scattering. Journal of Propulsion and Power, 1997, 13, 445-448.	2.2	2
140	Control of a Heated High Reynolds Number Mach 0.9 Jet Using Plasma Actuators. , 2008, , .		2
141	Active Control of Supersonic Jets Operating in Various Flow Regimes. , 2008, , .		2
142	Toward Better Understanding of Far-field Radiated Noise Mechanisms in a High Reynolds Number Mach 0.9 Axisymmetric Jet. , 2008, , .		2
143	Control input separation methods applied to cavity flow. , 2008, , .		2
144	Extremizing Feedback Control of a High-Speed and High-Reynolds-Number Jet. , 2009, , .		2

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145	Control of Separation from the Flap of a High-Lift Airfoil with DBD Plasma Actuation. , 2010, , .		2
146	A Study of Mach Wave Radiation in an Axisymmetric Jet Using Active Control. , 2011, , .		2
147	Time-Domain Analysis of Subsonic Jet Noise. , 2012, , .		2
148	Near-field Pressure and Far-field Acoustic Response of Forced High-Speed Jets. , 2014, , .		2
149	An Investigation of Twin Supersonic Jet Coupling. , 2016, , .		2
150	Towards large-eddy simulations of supersonic jets from twin rectangular nozzle with plasma actuation. , 2021, , .		2
151	Control of Coupling in Twin Rectangular Supersonic Jets. , 2021, , .		2
152	Reduced-Order Modeling and Control for Subsonic Cavity Flows. , 2006, , .		1
153	Correlation of Large-Scale Structure Dynamics and Far-Field Radiated Noise in a Mach 0.9 Jet. , 2007, , .		1
154	Incorporating Actuation Effects in Reduced-Order Models for Feedback Control of Axisymmetric Jets. , 2011, , .		1
155	An Investigation of Effects of Jet Temperature on Twin-Jet Flow and Acoustic Fields. , 2017, , .		1
156	Stall Cell Formation over a Boeing Vertol VR-7 Airfoil. , 2017, , .		1
157	Near-field pressure waveform analysis of an excited Mach 0.9 jet. International Journal of Aeroacoustics, 2018, 17, 114-134.	1.3	1
158	Control of Dynamic Stall over a NACA 0012 Airfoil Using NS-DBD Plasma Actuators. , 2020, , .		1
159	Planar Doppler velocimetry - Three-component velocimetry in supersonic jets. AIAA Journal, 1999, 37, 700-707.	2.6	1
160	The Fluid Dynamics of Safety Valve Vent Stacks. Journal of Fluids Engineering, Transactions of the ASME, 1985, 107, 397-401.	1.5	0
161	Recent enhancements to the OSU burst mode laser and MHz rate imaging systems. , 0, , .		0
162	Towards Feedback Control of High-Speed and High-Reynolds-Number Jets. , 2008, , .		0

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163	Effects of Active Control on the Flow Structure of Flow in a High Reynolds Number Supersonic Jet. , 2008, , .		0
164	Time-Domain Analysis of Excited Subsonic Jet Noise. , 2012, , .		0
165	Reduced-order modeling of high-speed jets controlled by arc filament plasma actuators. Experiments in Fluids, 2013, 54, 1.	2.4	0
166	A Study of the Noise Source Mechanisms in an Excited Mach 0.9 Jet - Complementary Experimental and Computational Analysis. , 2015, , .		0
167	Coupling Dynamics of Twin Supersonic Round Jets. , 2016, , .		0
168	Aggressively-Offset Inlet Flow Facility Design and Characterization. , 2020, , .		0