

# Farrukh Alvi

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

607  
citations

840776

11  
h-index

752698

20  
g-index

34  
all docs

34  
docs citations

34  
times ranked

292  
citing authors

#	ARTICLE	IF	CITATIONS
1	Separation flow control on a generic ground vehicle using steady microjet arrays. Experiments in Fluids, 2011, 51, 1177-1187.	2.4	80
2	Control of Pressure Loads in Geometrically Complex Cavities. Journal of Aircraft, 2008, 45, 1014-1024.	2.4	50
3	Suppression of Cavity Loads Using Leading-Edge Blowing. AIAA Journal, 2009, 47, 1132-1144.	2.6	48
4	Drag reduction on a flat-back ground vehicle with active flow control. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 145, 292-303.	3.9	40
5	Investigation of impinging jet resonant modes using unsteady pressure-sensitive paint measurements. Experiments in Fluids, 2015, 56, 1.	2.4	36
6	Separation Control on a Low-Pressure Turbine Blade using Microjets. Journal of Propulsion and Power, 2013, 29, 867-881.	2.2	29
7	Reynolds number and slant angle effects on the flow over a slanted cylinder afterbody. Journal of Fluid Mechanics, 2020, 893, .	3.4	28
8	Jet arrays in supersonic crossflow – An experimental study. Physics of Fluids, 2015, 27, .	4.0	27
9	Experimental Estimation of Sparkjet Efficiency. , 2011, , .		26
10	Aeroacoustic Properties of Supersonic Cavity Flows and Their Control. , 2003, , .		25
11	Role of coherent structures in supersonic impinging jets. Physics of Fluids, 2013, 25, .	4.0	25
12	High-Frequency Excitation Active Flow Control for High-Speed Weapon Release (HIFEX). , 2004, , .		19
13	Active Store Trajectory Control in Supersonic Cavities Using Microjets and Low-Order Modeling. AIAA Journal, 2007, 45, 516-531.	2.6	16
14	Flow Control for Enhanced Store Separation. , 2007, , .		16
15	Efficient Control of Separation Using Microjets. , 2005, , .		14
16	Control of Resonant Flow Inside a Supersonic Cavity Using High Bandwidth Micro-Actuators. , 2010, , .		14
17	Control of salient flow features in the wake of a $\delta^*$ Ahmed model using microjets. Experiments in Fluids, 2019, 60, 1.	2.4	12
18	Active Separation Control on Highly Loaded LPT Blades using Microjets. , 2010, , .		11

#	ARTICLE	IF	CITATIONS
19	A supersonic broadband microjet actuator using piezohydraulic actuation. Journal of Intelligent Material Systems and Structures, 2012, 23, 2003-2016.	2.5	10
20	Instability modes of millimeter-scale supersonic jets. Experiments in Fluids, 2019, 60, 1.	2.4	10
21	Near Wake Dynamics for An Ahmed Body With Active Flow Control. , 2012, , .		8
22	Recent Performance-Based Advances in SparkJet Actuator Design for Supersonic Flow Applications. , 2013, , .		8
23	Flow and acoustic characteristics of non-axisymmetric jets at subsonic conditions. Experiments in Fluids, 2017, 58, 1.	2.4	8
24	Microjet Based Active Flow Control on a Fixed Wing UAV. , 2010, , .		7
25	A bluff body flow control experiment with distributed actuation and genetic algorithm-based optimization. Experiments in Fluids, 2022, 63, .	2.4	7
26	Hysteretic flow regime switching in the wake of a cylinder with a slanted afterbody. Experiments in Fluids, 2022, 63, 1.	2.4	7
27	Use of Supersonic Microjets for Active Separation Control in Diffusers. , 2003, , .		5
28	Beyond actuator line arrays in active flow control studies: Lessons from a genetic algorithm approach. Physical Review Fluids, 2021, 6, .	2.5	5
29	Flow Field Characteristics of Oblique Shocks Generated Using Microjet Arrays. International Journal of Flow Control, 2014, 6, 93-110.	0.4	4
30	Microjet Control of Supersonic Impinging Jets - Control Strategy and Physical Mechanisms. , 2002, , .		3
31	Effect of Microjet Spacing on the Control of a Highly Separated Flowfield. , 2012, , .		3
32	Microjet-Based Active Flow Control on a Fixed Wing UAV. Journal of Flow Control Measurement & Visualization, 2014, 02, 32-41.	0.1	3
33	Piezoelectric Controlled Pulsed Microjet Actuation. , 2009, , .		2