

# Ethirajan Rathakrishnan

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

77 papers	484 citations	12 h-index	18 g-index
83 ext. papers	632 ext. citations	1.6 avg, IF	4.51 L-index

#	Paper	IF	Citations
77	Experimental Studies on the Limiting Tab. <i>AIAA Journal</i> , <b>2009</b> , 47, 2475-2485	2.1	48
76	Subsonic and Transonic Jet Control with Cross-Wire. <i>AIAA Journal</i> , <b>2006</b> , 44, 2700-2705	2.1	31
75	Truncated Triangular Tabs for Supersonic-Jet Control. <i>Journal of Propulsion and Power</i> , <b>2013</b> , 29, 50-65	1.8	24
74	Experimental Studies on Co-flowing Subsonic and Sonic Jets. <i>Flow, Turbulence and Combustion</i> , <b>2011</b> , 87, 115-132	2.5	18
73	Mixing Characteristics of Underexpanded Elliptic Sonic Jets from Orifice and Nozzle. <i>Journal of Propulsion and Power</i> , <b>2015</b> , 31, 496-504	1.8	17
72	Characteristics of Sonic Jets with Tabs. <i>Shock Waves</i> , <b>2006</b> , 15, 219-227	1.6	17
71	Fluidic injectors for supersonic jet control. <i>Physics of Fluids</i> , <b>2018</b> , 30, 126101	4.4	17
70	Impact of tab location relative to the nozzle exit on the shock structure of a supersonic jet. <i>Physics of Fluids</i> , <b>2019</b> , 31, 076104	4.4	16
69	Triangular tabs for supersonic jet mixing enhancement. <i>Aeronautical Journal</i> , <b>2014</b> , 118, 1245-1278	0.9	14
68	Characteristics of Controlled Mach 2 Elliptic Jet. <i>Journal of Propulsion and Power</i> , <b>2016</b> , 32, 121-133	1.8	14
67	Studies on high speed jets from nozzles with internal grooves. <i>Aeronautical Journal</i> , <b>2004</b> , 108, 43-50	0.9	13
66	Empirical scaling analysis of supersonic jet control using steady fluidic injection. <i>Physics of Fluids</i> , <b>2019</b> , 31, 056107	4.4	12
65	Influence of tab geometry and its orientation on under-expanded sonic jets. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , <b>2008</b> , 222, 331-339	0.9	12
64	<b>2019</b> ,		12
63	Numerical flow visualization of a Single Expansion Ramp Nozzle with hypersonic external flow. <i>Journal of Visualization</i> , <b>2006</b> , 9, 91-99	1.6	11
62	Experimental Study of Subsonic and Sonic Jets Controlled by Air Tabs. <i>Journal of Propulsion and Power</i> , <b>2015</b> , 31, 1473-1481	1.8	10
61	Experimental study of overexpanded co-flowing jets. <i>Aeronautical Journal</i> , <b>2008</b> , 112, 537-546	0.9	10

60	Effect of cross-wire and tabs on sonic jet structure. <i>Shock Waves</i> , <b>2007</b> , 17, 71-83	1.6	10
59	Aspect ratio effect on elliptical sonic jet mixing. <i>Aeronautical Journal</i> , <b>2016</b> , 120, 1197-1214	0.9	10
58	Characteristics of a supersonic elliptic jet. <i>Aeronautical Journal</i> , <b>2016</b> , 120, 495-519	0.9	10
57	Flow and Acoustic Properties of Underexpanded Elliptic-Slot Jets. <i>Journal of Propulsion and Power</i> , <b>2001</b> , 17, 49-57	1.8	9
56	Effect of Co-Flow on Near Field Shock Structure. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2012</b> , 134,	2.1	8
55	Nozzle Aspect Ratio Effect on Supersonic Elliptic Jet Mixing. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2017</b> , 139,	2.1	8
54	Passive control of coaxial jet with supersonic primary jet and sonic secondary jet. <i>Physics of Fluids</i> , <b>2020</b> , 32, 076101	4.4	7
53	Tab Aspect Ratio Effect on Supersonic Jet Mixing. <i>International Journal of Turbo and Jet Engines</i> , <b>2015</b> , 32,	0.8	7
52	Effect of Upstream Reflector on Jet Screech. <i>AIAA Journal</i> , <b>2011</b> , 49, 1151-1157	2.1	7
51	Breathing Blunt Nose for drag reduction at hypersonic speeds. <i>Journal of Visualization</i> , <b>2008</b> , 11, 280-280.6	0.6	7
50	Influence of bypass ratio on subsonic and correctly expanded sonic co-flowing jets with finite lip thickness. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , <b>2019</b> , 233, 2536-2548	0.9	6
49	Base Pressure Control with Annular Ribs. <i>International Journal of Turbo and Jet Engines</i> , <b>2014</b> , 31,	0.8	6
48	Effect of Cross-Wire Location on the Mixing of Underexpanded Sonic Jets. <i>Journal of Aerospace Engineering</i> , <b>2007</b> , 20, 179-185	1.4	6
47	Effect of Mach number on the acoustic field of 2:1 elliptic-slot jet. <i>Aeronautical Journal</i> , <b>2001</b> , 105, 9-16	0.9	6
46	Effect of tab parameters on the near-field mixing characteristics of a Mach 1.5 elliptic jet. <i>Physics of Fluids</i> , <b>2021</b> , 33, 036114	4.4	6
45	Co-Flowing Jet Control Using Lip Thickness Variation. <i>International Journal of Turbo and Jet Engines</i> , <b>2018</b> ,	0.8	5
44	Flow Field around a Blunt-nosed Body with Spike. <i>International Journal of Turbo and Jet Engines</i> , <b>2012</b> , 29,	0.8	5
43	Control of incident shock-induced boundary-layer separation using steady micro-jet actuators at $M_\infty$ 3.5. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , <b>2019</b> , 233, 1284-1306	0.9	5

42	Control of Supersonic Elliptic Jet with Ventilated Tabs. <i>International Journal of Turbo and Jet Engines</i> , <b>2020</b> , 37, 267-283	0.8	5
41	Control of Subsonic and Sonic Jets with Limiting Tabs. <i>International Journal of Turbo and Jet Engines</i> , <b>2017</b> , 34,	0.8	4
40	Corrugated right-angled triangular tabs for supersonic jet control. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , <b>2015</b> , 229, 2066-2084	0.9	4
39	Breathing blunt-nose concept for drag reduction in supersonic flow. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , <b>2009</b> , 223, 31-38	0.9	4
38	Studies on Twin Non-Parallel Unventilated Axisymmetric Jets. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , <b>1996</b> , 210, 309-321	0.9	4
37	Scaling law for supersonic core length in circular and elliptic free jets. <i>Physics of Fluids</i> , <b>2021</b> , 33, 051707	4.4	4
36	Sonic Elliptic Jet Control with Corrugated Limiting Tab. <i>Journal of Aerospace Engineering</i> , <b>2019</b> , 32, 04018151	1.51	3
35	Flow field behavior with Reynolds number variance around a spiked body. <i>Modern Physics Letters B</i> , <b>2016</b> , 30, 1650362	1.6	3
34	Characteristics of Co-flow Jets from Orifices. <i>International Journal of Turbo and Jet Engines</i> , <b>2014</b> , 31,	0.8	3
33	Twin-vortex flow physics. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , <b>2008</b> , 222, 783-788	0.9	3
32	Experimental study on the flow and noise characteristics of underexpanded notched slot jets. <i>Aeronautical Journal</i> , <b>2001</b> , 105, 267-276	0.9	3
31	Flow and Noise Characteristics of Notched Elliptic-Orifice Jets. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>1999</b> , 121, 690-693	2.1	3
30	Shifted Triangular Tabs for Supersonic Jet Control. <i>Journal of Aerospace Engineering</i> , <b>2018</b> , 31, 04018067	1.4	3
29	Scaling law for shock-cell length and its correlation with shock-associated noise of circular and elliptic supersonic free jets. <i>Physics of Fluids</i> , <b>2021</b> , 33, 096103	4.4	3
28	Morphology of subsonic rectangular slot jets. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , <b>2008</b> , 222, 449-461	0.9	2
27	Twin vortices behind a flat plate. <i>Journal of Visualization</i> , <b>2007</b> , 10, 249-249	1.6	2
26	Steady One-Dimensional Flow <b>2019</b> , 43-112		1
25	Normal Shock Waves <b>2019</b> , 113-153		1

24	Jets <b>2019</b> , 451-546		1
23	Control of Elliptic Supersonic Jet of Aspect Ratio 3. <i>Journal of Aerospace Engineering</i> , <b>2017</b> , 30, 04017048.	1.4	1
22	The 2nd International Symposium on Recent advances in Experimental Fluid Mechanics. <i>Journal of Visualization</i> , <b>2009</b> , 12, 81-86	1.6	1
21	Visualization of axis-switching of elliptical slot jets. <i>Journal of Visualization</i> , <b>2006</b> , 9, 4-4	1.6	1
20	Corrugated Shifted Limiting Tabs Effectiveness on Supersonic Jet Mixing. <i>Journal of Aerospace Engineering</i> , <b>2018</b> , 31, 04017090	1.4	1
19	Visualization of supersonic unequal mach number twin jet. <i>Journal of Visualization</i> , <b>2005</b> , 8, 290-290	1.6	0
18	Effect of Eccentricity on Co-flow Jet Characteristics. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 1	1.2	0
17	Design of Fluidic Injector for Supersonic Jet Manipulation. <i>AIAA Journal</i> , 1-10	2.1	0
16	Ramjet <b>2019</b> , 395-449		
15	Basic Facts <b>2019</b> , 1-41		
14	Oblique Shock and Expansion Waves <b>2019</b> , 155-220		
13	Measurements in Compressible Flow <b>2019</b> , 329-394		
12	Compressible Flow Equations <b>2019</b> , 221-237		
11	Similarity Rule <b>2019</b> , 239-270		
10	Two-Dimensional Compressible Flows <b>2019</b> , 271-281		
9	Flow with Friction and Heat Transfer <b>2019</b> , 283-308		
8	Method of Characteristics <b>2019</b> , 309-328		
7	Tab location effect on supersonic jet mixing. <i>Aeronautical Journal</i> , <b>2018</b> , 122, 1229-1243	0.9	

- 6 Self-Excitation of Small Plate Impingement Tones from Flat Plates with and without Coaxial Hole. *Journal of Aerospace Engineering*, **2014**, 27, 04014014 1.4
- 5 Effect of a neighboring sonic jet on the shock structure of a sonic jet. *Journal of Visualization*, **2007**, 10, 134-134 1.6
- 4 Noisefield of Underexpanded Notched Circular-Slot Jets. *Noise and Vibration Worldwide*, **2002**, 33, 9-23 0.8
- 3 Application of Digital Moire Interferometry for Mapping Conical Flows. *Journal of Fluids Engineering, Transactions of the ASME*, **1992**, 114, 246-249 2.1
- 2 Mean Streamwise Velocity Measurements in a Triple Jet of Equilateral Triangular Configuration. *Journal of Fluids Engineering, Transactions of the ASME*, **1993**, 115, 534-536 2.1
- 1 Effect of orifice spacing on twin circular parallel compressible jets. *International Journal of Turbo and Jet Engines*, **2021**, 38, 223-232 0.8