Ethirajan Rathakrishnan

List of Publications by Year in Descending Order

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	Effect of tab parameters on the near-field mixing characteristics of a Mach 1.5 elliptic jet. *Physics of Fluids*, **2021**, 33, 036114	4.4	6
76	Effect of orifice spacing on twin circular parallel compressible jets. *International Journal of Turbo and Jet Engines*, **2021**, 38, 223-232	0.8	
75	Scaling law for supersonic core length in circular and elliptic free jets. *Physics of Fluids*, **2021**, 33, 051707	4.4	4
74	Scaling law for shock-cell length and its correlation with shock-associated noise of circular and elliptic supersonic free jets. *Physics of Fluids*, **2021**, 33, 096103	4.4	3
73	Passive control of coaxial jet with supersonic primary jet and sonic secondary jet. *Physics of Fluids*, **2020**, 32, 076101	4.4	7
72	Control of Supersonic Elliptic Jet with Ventilated Tabs. *International Journal of Turbo and Jet Engines*, **2020**, 37, 267-283	0.8	5
71	Impact of tab location relative to the nozzle exit on the shock structure of a supersonic jet. *Physics of Fluids*, **2019**, 31, 076104	4.4	16
70	Empirical scaling analysis of supersonic jet control using steady fluidic injection. *Physics of Fluids*, **2019**, 31, 056107	4.4	12
69	Sonic Elliptic Jet Control with Corrugated Limiting Tab. *Journal of Aerospace Engineering*, **2019**, 32, 04018151	1.4	3
68	Ramjet **2019**, 395-449		
67	Basic Facts **2019**, 1-41		
66	Steady One-Dimensional Flow **2019**, 43-112		1
65	Oblique Shock and Expansion Waves **2019**, 155-220		
64	Normal Shock Waves **2019**, 113-153		1
63	Measurements in Compressible Flow **2019**, 329-394		
62	Jets **2019**, 451-546		1
61	Compressible Flow Equations **2019**, 221-237		

60	Similarity Rule **2019**, 239-270		
59	Two-Dimensional Compressible Flows **2019**, 271-281		
58	Flow with Friction and Heat Transfer **2019**, 283-308		
57	Method of Characteristics **2019**, 309-328		
56	Influence of bypass ratio on subsonic and correctly expanded sonic co-flowing jets with finite lip thickness. *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, **2019**, 233, 2536-2548	0.9	6
55	Control of incident shock-induced boundary-layer separation using steady micro-jet actuators at M = 3.5. *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, **2019**, 233, 1284-1306	0.9	5
54	**2019**,		12
53	Co-Flowing Jet Control Using Lip Thickness Variation. *International Journal of Turbo and Jet Engines*, **2018**,	0.8	5
52	Tab location effect on supersonic jet mixing. *Aeronautical Journal*, **2018**, 122, 1229-1243	0.9	
51	Corrugated Shifted Limiting Tabs Effectiveness on Supersonic Jet Mixing. *Journal of Aerospace Engineering*, **2018**, 31, 04017090	1.4	1
50	Fluidic injectors for supersonic jet control. *Physics of Fluids*, **2018**, 30, 126101	4.4	17
49	Shifted Triangular Tabs for Supersonic Jet Control. *Journal of Aerospace Engineering*, **2018**, 31, 04018067	1.4	3
48	Control of Subsonic and Sonic Jets with Limiting Tabs. *International Journal of Turbo and Jet Engines* , **2017**, 34,	0.8	4
47	Control of Elliptic Supersonic Jet of Aspect Ratio 3. *Journal of Aerospace Engineering*, **2017**, 30, 04017048	1.4	1
46	Nozzle Aspect Ratio Effect on Supersonic Elliptic Jet Mixing. *Journal of Fluids Engineering, Transactions of the ASME*, **2017**, 139,	2.1	8
45	Flow field behavior with Reynolds number variance around a spiked body. *Modern Physics Letters B*, **2016**, 30, 1650362	1.6	3
44	Aspect ratio effect on elliptical sonic jet mixing. *Aeronautical Journal*, **2016**, 120, 1197-1214	0.9	10
43	Characteristics of a supersonic elliptic jet. *Aeronautical Journal*, **2016**, 120, 495-519	0.9	10

42	Characteristics of Controlled Mach 2 Elliptic Jet. *Journal of Propulsion and Power*, **2016**, 32, 121-133	1.8	14
41	Mixing Characteristics of Underexpanded Elliptic Sonic Jets from Orifice and Nozzle. *Journal of Propulsion and Power*, **2015**, 31, 496-504	1.8	17
40	Tab Aspect Ratio Effect on Supersonic Jet Mixing. *International Journal of Turbo and Jet Engines*, **2015**, 32,	0.8	7
39	Experimental Study of Subsonic and Sonic Jets Controlled by Air Tabs. *Journal of Propulsion and Power*, **2015**, 31, 1473-1481	1.8	10
38	Corrugated right-angled triangular tabs for supersonic jet control. *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, **2015**, 229, 2066-2084	0.9	4
37	Triangular tabs for supersonic jet mixing enhancement. *Aeronautical Journal*, **2014**, 118, 1245-1278	0.9	14
36	Self-Excitation of Small Plate Impingement Tones from Flat Plates with and without Coaxial Hole. *Journal of Aerospace Engineering*, **2014**, 27, 04014014	1.4	
35	Base Pressure Control with Annular Ribs. *International Journal of Turbo and Jet Engines*, **2014**, 31,	0.8	6
34	Characteristics of Co-flow Jets from Orifices. *International Journal of Turbo and Jet Engines*, **2014**, 31,	0.8	3
33	Truncated Triangular Tabs for Supersonic-Jet Control. *Journal of Propulsion and Power*, **2013**, 29, 50-65	1.8	24
32	Flow Field around a Blunt-nosed Body with Spike. *International Journal of Turbo and Jet Engines*, **2012**, 29,	0.8	5
31	Effect of Co-Flow on Near Field Shock Structure. *Journal of Fluids Engineering, Transactions of the ASME*, **2012**, 134,	2.1	8
30	Effect of Upstream Reflector on Jet Screech. *AIAA Journal*, **2011**, 49, 1151-1157	2.1	7
29	Experimental Studies on Co-flowing Subsonic and Sonic Jets. *Flow, Turbulence and Combustion*, **2011**, 87, 115-132	2.5	18
28	Breathing blunt-nose concept for drag reduction in supersonic flow. *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, **2009**, 223, 31-38	0.9	4
27	The 2nd International Symposium on Recent advances in Experimental Fluid Mechanics. *Journal of Visualization*, **2009**, 12, 81-86	1.6	1
26	Experimental Studies on the Limiting Tab. *AIAA Journal*, **2009**, 47, 2475-2485	2.1	48
25	Twin-vortex flow physics. *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, **2008**, 222, 783-788	0.9	3

24	Morphology of subsonic rectangular slot jets. *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, **2008**, 222, 449-461	0.9	2
23	Influence of tab geometry and its orientation on under-expanded sonic jets. *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, **2008**, 222, 331-339	0.9	12
22	Experimental study of overexpanded co-flowing jets. *Aeronautical Journal*, **2008**, 112, 537-546	0.9	10
21	Breathing Blunt Nose for drag reduction at hypersonic speeds. *Journal of Visualization*, **2008**, 11, 280-280	1.6	7
20	Twin vortices behind a flat plate. *Journal of Visualization*, **2007**, 10, 249-249	1.6	2
19	Effect of a neighboring sonic jet on the shock structure of a sonic jet. *Journal of Visualization*, **2007**, 10, 134-134	1.6	
18	Effect of cross-wire and tabs on sonic jet structure. *Shock Waves*, **2007**, 17, 71-83	1.6	10
17	Effect of Cross-Wire Location on the Mixing of Underexpanded Sonic Jets. *Journal of Aerospace Engineering*, **2007**, 20, 179-185	1.4	6
16	Visualization of axis-switching of elliptical slot jets. *Journal of Visualization*, **2006**, 9, 4-4	1.6	1
15	Numerical flow visualization of a Single Expansion Ramp Nozzle with hypersonic external flow. *Journal of Visualization*, **2006**, 9, 91-99	1.6	11
14	Subsonic and Transonic Jet Control with Cross-Wire. *AIAA Journal*, **2006**, 44, 2700-2705	2.1	31
13	Characteristics of Sonic Jets with Tabs. *Shock Waves*, **2006**, 15, 219-227	1.6	17
12	Visualization of supersonic unequal mach number twin jet. *Journal of Visualization*, **2005**, 8, 290-290	1.6	0
11	Studies on high speed jets from nozzles with internal grooves. *Aeronautical Journal*, **2004**, 108, 43-50	0.9	13
10	Noisefield of Underexpanded Notched Circular-Slot Jets. *Noise and Vibration Worldwide*, **2002**, 33, 9-23	0.8	
9	Experimental study on the flow and noise characteristics of underexpanded notched slot jets. *Aeronautical Journal*, **2001**, 105, 267-276	0.9	3
8	Effect of Mach number on the acoustic field of 2:1 elliptic-slot jet. *Aeronautical Journal*, **2001**, 105, 9-16	0.9	6
7	Flow and Acoustic Properties of Underexpanded Elliptic-Slot Jets. *Journal of Propulsion and Power*, **2001**, 17, 49-57	1.8	9

6	Flow and Noise Characteristics of Notched Elliptic-Orifice Jets. *Journal of Fluids Engineering, Transactions of the ASME*, **1999**, 121, 690-693	2.1	3
5	Studies on Twin Non-Parallel Unventilated Axisymmetric Jets. *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, **1996**, 210, 309-321	0.9	4
4	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	
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	Effect of Eccentricity on Co-flow Jet Characteristics. *Iranian Journal of Science and Technology - Transactions of Mechanical Engineering*,1	1.2	0
1	Design of Fluidic Injector for Supersonic Jet Manipulation. *AIAA Journal*,1-10	2.1	0