

Ganesh G Raman

List of Publications by Year in descending order

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125
papers

2,672
citations

236925
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127
all docs

127
docs citations

127
times ranked

665
citing authors

#	ARTICLE	IF	CITATIONS
1	Corneal Endothelium Changes 6 Months after Laser Peripheral Iridotomy: Prospective Study. Ophthalmology Glaucoma, 2020, 3, 220-221.	1.9	2
2	Effects of array scaling and advanced beamforming algorithms on the angular resolution of microphone array systems. Applied Acoustics, 2018, 132, 58-81.	3.3	9
3	Predictors of Short-Term Intraocular Pressure Change after Laser Peripheral Iridotomy. Ophthalmology Glaucoma, 2018, 1, 197-205.	1.9	0
4	Experimental determination of the effects of boundary reflection on the angular resolution of microphone arrays. Building Acoustics, 2018, 25, 249-286.	1.9	1
5	An experimental comparison of various methods of nearfield acoustic holography. Journal of Sound and Vibration, 2017, 403, 21-37.	3.9	22
6	Enhanced nearfield acoustic holography for larger distances of reconstructions using fixed parameter Tikhonov regularization. Journal of the Acoustical Society of America, 2016, 140, 114-120.	1.1	11
7	Angle Closure Phenotypes in Siblings of Patients at Different Stages of Angle Closure. Ophthalmology, 2016, 123, 1622-1624.	5.2	4
8	Edward J Rice and flow control studies for jets and shear layers at NASA Glenn Research Center. International Journal of Aeroacoustics, 2016, 15, 352-366.	1.3	0
9	A review of wind turbine noise measurements and regulations. Wind Engineering, 2016, 40, 319-342.	1.9	3
10	Demonstration of the Possibilities of Using a Phased Microphone Array as the Next-Generation Airport Noise Monitoring System. Transportation Research Record, 2016, 2600, 20-26.	1.9	4
11	Aircraft noise monitoring using multiple passive data streams. Noise and Vibration Worldwide, 2016, 47, 35-45.	1.0	2
12	Effects of Hologram Distance and Regularization Techniques on Various Methods of Nearfield Acoustic Holography Applied to Building Leakage Detection/Quantification. , 2015, , .		0
13	Acoustic investigation of wall jet over a backward-facing step using a microphone phased array. Journal of Sound and Vibration, 2015, 336, 46-61.	3.9	3
14	Leakage Detection Techniques Using Nearfield Acoustic Holography. , 2014, , .		1
15	Wind turbine noise measurement using a compact microphone array with advanced deconvolution algorithms. Journal of Sound and Vibration, 2014, 333, 3058-3080.	3.9	41
16	On Using Functional Beamforming To Resolve Noise Sources On A Large Wind Turbine. , 2014, , .		3
17	Noise Source Localization on a Small Wind Turbine Using a Compact Microphone Array with Advanced Beamforming Algorithms: Part II " A Study of Mechanical Noise from Nacelle Using a Wind Turbine Drive Train Simulator. Wind Engineering, 2014, 38, 89-100.	1.9	4
18	Noise Source Localization on a Small Wind Turbine Using a Compact Microphone Array with Advanced Beamforming Algorithms: Part I " A Study of Aerodynamic Noise from Blades. Wind Engineering, 2014, 38, 73-88.	1.9	6

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19	Advances in Experimental Aeroacoustics. International Journal of Aeroacoustics, 2013, 12, 579-637.	1.3	5
20	Linear Programming Acoustic Beamforming Versus Other Deconvolution Methods For A Full Scale 1.5 MW Wind Turbine. , 2013, , .		3
21	Deconvolution of Sources in Aeroacoustic Images from Phased Microphone Arrays Using Linear Programming. , 2013, , .		18
22	Miniature Shock Tube Actuators for High Speed Flow Control Applications. International Journal of Flow Control, 2013, 5, 1-24.	0.4	0
23	Deconvolution of Sources in Aeroacoustic Images from Phased Microphone Arrays Using Linear Programming. International Journal of Aeroacoustics, 2013, 12, 699-717.	1.3	25
24	Noise Source Localization Using a Compact Phased Array: Studies on a Full Scale Wind Turbine in a Wind Farm. Wind Engineering, 2012, 36, 589-604.	1.9	9
25	Aeroacoustics of Twin Supersonic Jets: A Review. International Journal of Aeroacoustics, 2012, 11, 957-984.	1.3	33
26	Numerical Studies of Wind Turbine Acoustics. , 2012, , .		5
27	Pulsed Shock Tube Actuators for Noise Reduction In High Speed Applications. , 2011, , .		1
28	Control of Flow Over a Rectangular Cavity Using a Rod in Cross Flow: Further Evaluation of Key Mechanisms. , 2011, , .		1
29	Evaluation of Various Beamforming Algorithms for Wind Turbine Noise Measurement. , 2011, , .		8
30	Novel High Control Authority Actuators for Jet and Cavity Noise Reduction. , 2011, , .		0
31	Investigation of the Inner Nozzle Wake on Kelvin Helmholtz Instabilities in a Coannular Jet. International Journal of Flow Control, 2011, 3, 67-86.	0.4	1
32	New Vortex Generator Design for Nozzle Internal Modification. International Journal of Aerospace Innovations, 2011, 3, 249-260.	0.2	6
33	Advances in Measuring Noise from Wind Turbines. Noise and Vibration Worldwide, 2010, 41, 19-25.	1.0	2
34	Stability of a hybrid mean velocity profile and its relevance to cavity resonance suppression. Physics of Fluids, 2010, 22, .	4.0	11
35	Miniature Shock Tube Actuators for Flow Control Applications. , 2010, , .		4
36	Jet Noise Suppression Using Ultrasonic Powered Resonance Tubes. , 2010, , .		2

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37	Flow Control Using Multiple Miniature Shock Tube Actuators. , 2010, , .		0
38	Ultrasonic Powered Resonance Tube Actuators for Flow Control Applications. , 2010, , .		3
39	Stability of the Inner Nozzle Wake with Relevance to the Coannular Jet Aeroacoustics. , 2010, , .		0
40	The powered resonance tube: From Hartmann's discovery to current active flow control applications. Progress in Aerospace Sciences, 2009, 45, 97-123.	12.1	61
41	Study of coupled supersonic twin jets of complex geometry using higher-order spectral analysis. Journal of Sound and Vibration, 2009, 323, 910-931.	3.9	14
42	Cavity Noise Suppression Through Shear Layer Ltoff. , 2009, , .		8
43	Cavity Tone Suppression Using a Rod in Cross Flow: investigation of Shear Layer Stability Mechanism. , 2009, , .		3
44	Using Linear Stability Analysis as a Tool to Evaluate Jet and Cavity Flow Control Situations. International Journal of Flow Control, 2009, 1, 43-72.	0.4	9
45	Whistles: From Toys to Industrial Devices and Applications. Noise and Vibration Worldwide, 2009, 40, 11-17.	1.0	1
46	Wind Turbines: Clean, Renewable and Quiet?. Noise and Vibration Worldwide, 2009, 40, 15-21.	1.0	2
47	Whistles: from toys to industrial devices and applications. Noise Notes, 2009, 8, 11-20.	0.1	3
48	Twin-Jet Coupling Suppression using Miniature Pins and Cavities. International Journal of Flow Control, 2009, 1, 271-280.	0.4	1
49	Cavity resonance suppression using high frequency excitation: The mystery of the cylinder-in-crossflow revisited. , 2008, , .		8
50	Understanding the Mechanism of Cavity Resonance Suppression Using a Cylindrical Rod in Crossflow. , 2008, , .		11
51	Jet Impingement Tone Suppression Using Powered Resonance Tubes. AIAA Journal, 2007, 45, 972-979.	2.6	15
52	Criteria for the existence of helical instabilities in subsonic impinging jets. Physics of Fluids, 2007, 19, .	4.0	33
53	Coupling of Multiple High Speed Jets and Cavities. , 2007, , .		0
54	Features of the Interaction Between Twin-Cavities with Varying Separation. , 2007, , .		1

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55	New Criteria for the Existence of Helical Instabilities in Subsonic Impinging Jets. , 2007, , .		0
56	Characterization of the Microfluidic Oscillator. AIAA Journal, 2007, 45, 568-576.	2.6	112
57	Simulations of Helmholtz Resonator Powered Resonance Tubes at Moderate Pressure Ratios. , 2006, , .		5
58	High and Low Frequency Actuation Comparison for a Weapons Bay Cavity. International Journal of Aeroacoustics, 2006, 5, 395-414.	1.3	7
59	Nozzle Orientation Effects and Nonlinear Interactions Between Twin Jets of Complex Geometry. Journal of Aircraft, 2006, 43, 336-345.	2.4	5
60	Jet thrust vectoring using a miniature fluidic oscillator. Aeronautical Journal, 2005, 109, 129-138.	1.6	42
61	Powered resonance tubes: resonance characteristics and actuation signal directivity. Experiments in Fluids, 2005, 39, 1084-1095.	2.4	33
62	Nonlinear interactions as precursors to mode jumps in resonant acoustics. Physics of Fluids, 2005, 17, 096103.	4.0	11
63	Impingement Tone Suppression Using Powered Resonance Tubes. , 2005, , .		1
64	Development of Powered Resonance-Tube Actuators for Aircraft Flow Control Applications. Journal of Aircraft, 2004, 41, 1306-1314.	2.4	12
65	Cavity Resonance Suppression Using Miniature Fluidic Oscillators. AIAA Journal, 2004, 42, 2608-2612.	2.6	153
66	Sound Attenuation by Glow Discharge Plasma. AIAA Journal, 2004, 42, 545-550.	2.6	13
67	Development of high bandwidth powered resonance tube actuators with feedback control. Journal of Sound and Vibration, 2004, 269, 1031-1062.	3.9	55
68	Aeroacoustic features of coupled twin jets with spanwise oblique shock-cells. Journal of Sound and Vibration, 2004, 278, 155-179.	3.9	23
69	Optimized shapes of oscillating resonators for generating high-amplitude pressure waves. Journal of the Acoustical Society of America, 2004, 116, 2814-2821.	1.1	20
70	Simulation of Powered Resonance Tubes: Helmholtz Resonator Geometries. , 2004, , .		11
71	Analytical Modeling of Helmholtz Resonator Based Powered Resonance Tubes. , 2004, , .		10
72	Characterization of a Micro Fluidic Oscillator for Flow Control. , 2004, , .		24

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73	Coupling of Twin Jets of Complex Geometry: Nozzle Orientation Effects. , 2004, , .		2
74	Acoustic Coupling of Twin Jets from Single-Beveled Nozzles. , 2004, , .		0
75	Interaction of Twin Jets from Nozzles of Spanwise Oblique Geometry. , 2003, , .		2
76	Study of Supersonic Twin Jet Coupling Using Higher Order Spectral Analysis. , 2003, , .		6
77	Quantitative Interferometry in the Severe Acoustic Environment of Resonant Supersonic Jets. AIAA Journal, 2002, 40, 438-442.	2.6	3
78	Jet-Cavity Interaction Tones. AIAA Journal, 2002, 40, 1503-1511.	2.6	22
79	Mixer-Ejector Wall Pressure and Temperature Measurements Based on Photoluminescence. AIAA Journal, 2002, 40, 745-750.	2.6	6
80	Simulation of Acoustic Characteristics and Mechanisms of Powered Resonance Tubes. , 2002, , .		9
81	High Frequency Acoustic Suppression - The Role of Mass Flow & The Notion of Superposition. , 2002, , .		38
82	Acoustic Wave Control Using Glow Discharge Plasma. , 2002, , .		5
83	High Bandwidth Powered Resonance Tube Actuators with Feedback Control. , 2002, , .		7
84	Active flow control using integrated powered resonance tube actuators. , 2001, , .		37
85	Suppression of cavity resonance using high frequency forcing - The characteristic signature of effective devices. , 2001, , .		41
86	Control of cavity resonance through very high frequency forcing. , 2000, , .		64
87	Advanced actuator concepts for active aeroacoustic control. , 2000, , .		25
88	Miniature fluidic oscillators for flow and noise control - Transitioning from macro to micro fluidics. , 2000, , .		27
89	Coupling of Twin Supersonic Jets of Complex Geometry. Journal of Aircraft, 1999, 36, 743-749.	2.4	22
90	Pressure sensitive paint demonstrates relationship between ejector wall pressure and aerodynamic performance. Experiments in Fluids, 1999, 26, 481-487.	2.4	13

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91	SUPERSONIC JET SCREECH: HALF-CENTURY FROM POWELL TO THE PRESENT. Journal of Sound and Vibration, 1999, 225, 543-571.	3.9	236
92	HIGHLIGHTS OF AEROACOUSTICS RESEARCH IN THE U.S.â€™1998. Journal of Sound and Vibration, 1999, 228, 589-610.	3.9	6
93	Cavity resonance suppression using miniature fluidic oscillators. , 1999, , .		34
94	Shock-induced flow resonance in supersonic jets of complex geometry. Physics of Fluids, 1999, 11, 692-709.	4.0	19
95	Tone noise and nearfield pressure produced by jet-cavity interaction. , 1999, , .		7
96	Highlights of aeroacoustics research in the U.S. - 1998. , 1999, , .		4
97	ADVANCES IN UNDERSTANDING SUPERSONIC JET SCREECH: REVIEW AND PERSPECTIVE. Progress in Aerospace Sciences, 1998, 34, 45-106.	12.1	166
98	Advances in understanding supersonic jet screech. , 1998, , .		9
99	Shock noise from single and twin supersonic jets of complex geometry. , 1998, , .		1
100	Coupling of twin rectangular supersonic jets. Journal of Fluid Mechanics, 1998, 354, 123-146.	3.4	66
101	Using Controlled Unsteady Fluid Mass Addition. AIAA Journal, 1997, 35, 647-656.	2.6	50
102	Screech Tones of Supersonic Jets from Bevelled Rectangular Nozzles. AIAA Journal, 1997, 35, 1119-1125.	2.6	42
103	Screech tones from rectangular jets with spanwise oblique shock-cell structures. Journal of Fluid Mechanics, 1997, 330, 141-168.	3.4	80
104	Cessation of screech in underexpanded jets. Journal of Fluid Mechanics, 1997, 336, 69-90.	3.4	115
105	Coupling of twin rectangular supersonic jets. , 1997, , .		2
106	Screech tones of supersonic jets from bevelled rectangular nozzles. AIAA Journal, 1997, 35, 1119-1125.	2.6	11
107	Resonant interaction of a linear array of supersonic rectangular jets: an experimental study. Journal of Fluid Mechanics, 1996, 309, 93-111.	3.4	34
108	Screech tones from rectangular jets with spanwise oblique shock-cell structures. , 1996, , .		12

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109	Visualization of supersonic screeching jets using a phase conditioned focusing schlieren system. Experiments in Fluids, 1996, 20, 472-475.	2.4	8
110	Flow Characteristics of a Rectangular Multielement Supersonic Mixer-Ejector. Journal of Propulsion and Power, 1996, 12, 1004-1007.	2.2	5
111	Cessation of screech in underexpanded jets. , 1996, , .		3
112	Disturbance growth triggered by steady heating of a jet's nozzle exit boundary layer. Physics of Fluids, 1995, 7, 2304-2306.	4.0	1
113	Supersonic jet mixing enhancement using impingement tones from obstacles of various geometries. AIAA Journal, 1995, 33, 454-462.	2.6	22
114	Jet mixing control using excitation from miniature oscillating jets. AIAA Journal, 1995, 33, 365-368.	2.6	57
115	Resonant interaction of a linear array of supersonic rectangular jets - An experimental study. , 1995, , .		4
116	Evaluation of Flip-Flop Jet Nozzles for Use as Practical Excitation Devices. Journal of Fluids Engineering, Transactions of the ASME, 1994, 116, 508-515.	1.5	43
117	Instability modes excited by natural screech tones in a supersonic rectangular jet. Physics of Fluids, 1994, 6, 3999-4008.	4.0	88
118	Mode spectra of natural disturbances in a circular jet and the effect of acoustic forcing. Experiments in Fluids, 1994, 17, 415-426.	2.4	43
119	Enhanced mixing of multiple supersonic rectangular jets by synchronized screech. AIAA Journal, 1994, 32, 2477-2480.	2.6	13
120	Mixing noise reduction for rectangular supersonic jets by nozzle shaping and induced screech mixing. , 1993, , .		17
121	Flip-flop jet nozzle extended to supersonic flows. AIAA Journal, 1993, 31, 1028-1035.	2.6	49
122	The flip flop nozzle extended to supersonic flows. , 1992, , .		3
123	Axisymmetric jet forced by fundamental and subharmonic tones. AIAA Journal, 1991, 29, 1114-1122.	2.6	55
124	Initial turbulence effect on jet evolution with and without tonal excitation. Physics of Fluids A, Fluid Dynamics, 1989, 1, 1240-1248.	1.6	62
125	Saturation and the limit of jet mixing enhancement by single frequency plane wave excitation - Experiment and theory. , 1988, , .		12