Yves Aurgan

List of Publications by Year in Descending Order

58 papers	1,489 citations	22 h-index	38 g-index
67 ext. papers	1,756 ext. citations	3.1 avg, IF	5.02 L-index

#	Paper	IF	Citations
58	Corona discharge actuator as an active sound absorber under normal and oblique incidence. *Acta Acustica*, **2022**, 6, 5	0.9	0
57	Linear investigation of sound-flow interaction along a corrugated plate. *Journal of Sound and Vibration*, **2022**, 117048	3.9	
56	Effect of back cavity configuration on performance of elastic panel acoustic liner with grazing flow. *Journal of Sound and Vibration*, **2021**, 492, 115847	3.9	3
55	On articulated plates with micro-slits to tackle low-frequency noise. *Acta Acustica*, **2021**, 5, 31	0.9	0
54	Experimental study of plane wave propagation in a corrugated pipe: Linear regime of acoustic-flow interaction. *Journal of Sound and Vibration*, **2020**, 472, 115158	3.9	3
53	Effect of flow on an array of Helmholtz resonators: Is Kevlar a "magic layer"?. *Journal of the Acoustical Society of America*, **2020**, 148, 3392	2.2	3
52	Using liner surface modes in acoustic ducts to make obstacles reflectionless. *Scientific Reports*, **2019**, 9, 6981	4.9	2
51	In-parallel resonators to increase the absorption of subwavelength acoustic absorbers in the mid-frequency range. *Scientific Reports*, **2019**, 9, 11140	4.9	2
50	Slow sound laser in lined flow ducts. *Journal of the Acoustical Society of America*, **2019**, 146, 2632	2.2	5
49	Direct impedance eduction of liners from Laser Doppler Velocimetry measurements **2019**,		1
48	Performance of the Matrix Pencil algorithm in direct impedance eduction of liners: some numerical experiments **2019**,		1
47	Hydrodynamic instability and sound amplification over a perforated plate backed by a cavity **2019**,		2
46	Optical Measurements of the Linear Sound-Flow Interaction above a Corrugated Plate **2019**,		2
45	A cavity-by-cavity description of the aeroacoustic instability over a liner with a grazing flow. *Journal of Fluid Mechanics*, **2018**, 852, 126-145	3.7	17
44	On the use of a stress-impedance model to describe sound propagation in a lined duct with grazing flow. *Journal of the Acoustical Society of America*, **2018**, 143, 2975	2.2	9
43	Ultra-thin low frequency perfect sound absorber with high ratio of active area. *Applied Physics Letters*, **2018**, 113, 201904	3.4	18
42	Manipulating acoustic waves radiation direction using Liner surface modes **2018**,		1

41	Explicit approximation of the wavenumber for lined ducts. *Journal of the Acoustical Society of America*, **2018**, 144, EL191	2.2	
40	Numerical Coupling Strategy for Resolving In-Duct Elastic Panel Aeroacoustic/Structural Interaction. *AIAA Journal*, **2018**, 56, 5033-5040	2.1	10
39	Compact beam liners for low frequency noise **2018**,		1
38	Sound attenuation optimization using metaporous materials tuned on exceptional points. *Journal of the Acoustical Society of America*, **2017**, 142, 2288	2.2	30
37	Flexural instability and sound amplification of a membrane-cavity configuration in shear flow. *Journal of the Acoustical Society of America*, **2017**, 142, 1934	2.2	8
36	PT-Symmetric Scattering in Flow Duct Acoustics. *Physical Review Letters*, **2017**, 118, 174301	7.4	62
35	Scattering by Finite Periodic PT-Symmetric Structures. *Physical Review Letters*, **2017**, 119, 243904	7.4	15
34	Particle image velocimetry measurement of an instability wave over a porous wall in a duct with flow. *Journal of Sound and Vibration*, **2017**, 386, 208-224	3.9	8
33	Acoustic Scattering in Duct With a Chaotic Cavity. *Acta Acustica United With Acustica*, **2016**, 102, 869-875	1.5	7
32	PIV Measurement of a Porous Liner in a Duct with Flow **2016**,		1
31	Influence of shear flow on liner impedance computed by multimodal method **2016**,		2
30	Use of slow sound to design perfect and broadband passive sound absorbing materials. *Journal of the Acoustical Society of America*, **2016**, 139, 1660	2.2	57
29	Acoustic of a perforated liner with grazing flow: Floquet-Bloch periodical approach versus impedance continuous approach. *Journal of the Acoustical Society of America*, **2016**, 140, 2047	2.2	15
28	Low frequency sound attenuation in a flow duct using a thin slow sound material. *Journal of the Acoustical Society of America*, **2016**, 139, EL149	2.2	23
27	Fano resonance scatterings in waveguides with impedance boundary conditions. *Journal of the Acoustical Society of America*, **2016**, 139, 764-72	2.2	19
26	The use of slow waves to design simple sound absorbing materials. *Journal of Applied Physics*, **2015**, 117, 124903	2.5	65
25	Slow sound in lined flow ducts. *Journal of the Acoustical Society of America*, **2015**, 138, 605-13	2.2	35
24	Slow sound in a duct, effective transonic flows, and analog black holes. *Physical Review D*, **2015**, 92,	4.9	6

23	Experimental observation of a hydrodynamic mode in a flow duct with a porous material. *Journal of the Acoustical Society of America*, **2014**, 136, 567-72	2.2	9
22	Identification of aero-acoustic scattering matrices from large eddy simulation: Application to whistling orifices in duct. *Journal of Sound and Vibration*, **2013**, 332, 5059-5067	3.9	18
21	Effect of turbulent eddy viscosity on the unstable surface mode above an acoustic liner. *Journal of Sound and Vibration*, **2013**, 332, 3803-3820	3.9	31
20	Acoustical behaviour of purely reacting liners **2013**,		3
19	Failure of the Ingard-Myers boundary condition for a lined duct: an experimental investigation. *Journal of the Acoustical Society of America*, **2011**, 130, 52-60	2.2	81
18	Whistling of an orifice in a reverberating duct at low Mach number. *Journal of the Acoustical Society of America*, **2011**, 130, 2662-72	2.2	17
17	Comparison of Experiments with Stability Analysis Predictions in a Lined Flow Duct **2010**,		4
16	PIV and LDV evidence of hydrodynamic instability over a liner in a duct with flow. *Journal of Sound and Vibration*, **2010**, 329, 3798-3812	3.9	59
15	The whistling potentiality of an orifice in a confined flow using an energetic criterion. *Journal of Sound and Vibration*, **2009**, 325, 769-780	3.9	68
14	Evidence of Hydrodynamic Instability over a Liner in a Duct with Flow **2009**,		10
13	Experimental evidence of an instability over an impedance wall in a duct with flow. *Journal of Sound and Vibration*, **2008**, 317, 432-439	3.9	55
12	Noise generated by cavitating single-hole and multi-hole orifices in a water pipe. *Journal of Fluids and Structures*, **2007**, 23, 163-189	3.1	59
11	An improved multimodal method for sound propagation in nonuniform lined ducts. *Journal of the Acoustical Society of America*, **2007**, 122, 280-90	2.2	46
10	Modelling of sound propagation in a non-uniform lined duct using a Multi-Modal Propagation Method. *Journal of Sound and Vibration*, **2006**, 289, 1091-1111	3.9	60
9	Measurement of Liner Impedance with Flow by an Inverse Method **2004**,		41
8	Failures in the discrete models for flow duct with perforations: an experimental investigation. *Journal of Sound and Vibration*, **2003**, 265, 109-121	3.9	25
7	LOW FREQUENCY SOUND PROPAGATION IN A COAXIAL CYLINDRICAL DUCT: APPLICATION TO SUDDEN AREA EXPANSIONS AND TO DISSIPATIVE SILENCERS. *Journal of Sound and Vibration*, **2001**, 243, 461-473	3.9	31
6	AEROACOUSTIC RESPONSE OF A SLIT-SHAPED DIAPHRAGM IN A PIPE AT LOW HELMHOLTZ NUMBER, 1: QUASI-STEADY RESULTS. *Journal of Sound and Vibration*, **2001**, 244, 35-56	3.9	39

5	Quasisteady aero-acoustic response of orifices. *Journal of the Acoustical Society of America*, **2001**, 110, 1859-72	2.2	60
4	Influence of grazing flow and dissipation effects on the acoustic boundary conditions at a lined wall. *Journal of the Acoustical Society of America*, **2001**, 109, 59-64	2.2	88
3	FLUCTUATIONS OF VORTICITY AND ENTROPY AS SOURCES OF ACOUSTICAL EXERGY. *Journal of Sound and Vibration*, **1998**, 216, 521-527	3.9	6
2	SNORING: LINEAR STABILITY ANALYSIS ANDIN-VITROEXPERIMENTS. *Journal of Sound and Vibration* , **1995**, 188, 39-53	3.9	42
1	Theoretical and experimental study of quasisteady-flow separation within the glottis during phonation. Application to a modified two-mass model. *Journal of the Acoustical Society of America*, **1994**, 96, 3416-3431	2.2	202