

Emmanuel Gourdon

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

528
citations

759233

12
h-index

642732

23
g-index

29
all docs

29
docs citations

29
times ranked

472
citing authors

#	ARTICLE	IF	CITATIONS
1	Acoustical properties of materials made of vegetable particles with several scales of porosity. Applied Acoustics, 2011, 72, 249-259.	3.3	174
2	Modelling of the acoustical properties of hemp particles. Construction and Building Materials, 2012, 37, 801-811.	7.2	50
3	Agricultural by-products for building insulation: Acoustical characterization and modeling to predict micro-structural parameters. Construction and Building Materials, 2016, 112, 158-167.	7.2	50
4	Bending a quarter wavelength resonator : Curvature effects on sound absorption properties. Applied Acoustics, 2018, 131, 87-102.	3.3	34
5	The effect of particle shape and size distribution on the acoustical properties of mixtures of hemp particles. Journal of the Acoustical Society of America, 2013, 134, 4698-4709.	1.1	26
6	Acoustical model of vegetal wools including two types of fibers. Applied Acoustics, 2018, 129, 36-46.	3.3	25
7	How reproducible are methods to measure the dynamic viscoelastic properties of poroelastic media?. Journal of Sound and Vibration, 2018, 428, 26-43.	3.9	20
8	Estimation of all six parameters of Johnson-Champoux-Allard-Lafarge model for acoustical porous materials from impedance tube measurements. Journal of the Acoustical Society of America, 2020, 148, 1998-2005.	1.1	19
9	Applications of the Dual Porosity Theory to Irregularly Shaped Porous Materials. Acta Acustica United With Acustica, 2008, 94, 715-724.	0.8	18
10	Innovative origami-based solutions for enhanced quarter-wavelength resonators. Journal of Sound and Vibration, 2018, 434, 379-403.	3.9	18
11	Relationship between hygrothermal and acoustical behavior of hemp and sunflower composites. Building and Environment, 2021, 188, 107462.	6.9	17
12	Extension of Double Porosity Model to Porous Materials Containing Specific Porous Inclusions. Acta Acustica United With Acustica, 2010, 96, 275-291.	0.8	12
13	Nonlinear softening and hardening behavior in Helmholtz resonators for nonlinear regimes. Nonlinear Dynamics, 2018, 91, 217-231.	5.2	12
14	Targeted Energy Transfer From One Acoustical Mode to an Helmholtz Resonator With Nonlinear Behavior. Journal of Vibration and Acoustics, Transactions of the ASME, 2018, 140, .	1.6	12
15	Sound absorption prediction of linear damped acoustic resonators using a lightweight hybrid model. Applied Acoustics, 2019, 150, 14-26.	3.3	7
16	A cylindrical self-consistent modelling of vegetal wools thermal conductivity. Construction and Building Materials, 2020, 232, 117123.	7.2	7
17	Assessment of single-sided ventilation with acoustic shutters on windows. Building Simulation, 2015, 8, 689-700.	5.6	5
18	Silencer design for awning windows: Modified Helmholtz resonators with perforated foam. Building Simulation, 2017, 10, 677-685.	5.6	5

#	ARTICLE	IF	CITATIONS
19	Use of image analysis to predict the sound absorption coefficient of bituminous mixtures. Road Materials and Pavement Design, 2018, 19, 1259-1274.	4.0	5
20	Effects of shape of the neck of classical acoustical resonators on the sound absorption quality for large amplitudes: Experimental results. Building Acoustics, 2020, 27, 169-181.	1.9	3
21	Characterizing a porous road pavement using surface impedance measurement: A guided numerical inversion procedure. Journal of the Acoustical Society of America, 2013, 134, 4782-4791.	1.1	2
22	A self-consistent approach for the acoustical modeling of vegetal wools. Journal of Sound and Vibration, 2021, 495, 115911.	3.9	2
23	Pompage Énergétique : conception, efficacité, expérimentation. Mécanique Et Industries, 2007, 8, 279-282.	0.2	1
24	Nonlinear behaviors of an acoustical resonator: theoretical and experimental evidences. Procedia Engineering, 2017, 199, 643-648.	1.2	1
25	Characterization and modelling of the sound reduction of hemp-clay walls in buildings. Journal of Building Engineering, 2021, 40, 102315.	3.4	1
26	Link between Acoustic and Hygrothermal Behavior of Hemp Shiv and Pith Composites. , 0, , .		1
27	Micro-Macro Modelling Approach of Vegetal Wools Thermal Conductivity. , 0, , .		0
28	Analytical Approximation of Forced Oscillations of Nonlinear Helmholtz Resonator by Homotopy Analysis Method. , 2022, , 503-513.		0