Emmanuel Gourdon

List of Publications by Year
in descending order

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28	528	759233 12	642732 23
papers	citations	h-index	g-index

29	29	29	472
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Analytical Approximation of Forced Oscillations of Nonlinear Helmholtz Resonator by Homotopy Analysis Method. , 2022, , 503-513.		0
2	Relationship between hygrothermal and acoustical behavior of hemp and sunflower composites. Building and Environment, 2021, 188, 107462.	6.9	17
3	A self-consistent approach for the acoustical modeling of vegetal wools. Journal of Sound and Vibration, 2021, 495, 115911.	3.9	2
4	Characterization and modelling of the sound reduction of hemp-clay walls in buildings. Journal of Building Engineering, 2021, 40, 102315.	3.4	1
5	A cylindrical self-consistent modelling of vegetal wools thermal conductivity. Construction and Building Materials, 2020, 232, 117123.	7.2	7
6	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
7	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
8	Sound absorption prediction of linear damped acoustic resonators using a lightweight hybrid model. Applied Acoustics, 2019, 150, 14-26.	3.3	7
9	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
10	Acoustical model of vegetal wools including two types of fibers. Applied Acoustics, 2018, 129, 36-46.	3.3	25
11	Bending a quarter wavelength resonator : Curvature effects on sound absorption properties. Applied Acoustics, 2018, 131, 87-102.	3.3	34
12	Nonlinear softening and hardening behavior in Helmholtz resonators for nonlinear regimes. Nonlinear Dynamics, 2018, 91, 217-231.	5.2	12
13	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
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	Innovative origami-based solutions for enhanced quarter-wavelength resonators. Journal of Sound and Vibration, 2018, 434, 379-403.	3.9	18
16	Silencer design for awning windows: Modified Helmholtz resonators with perforated foam. Building Simulation, 2017, 10, 677-685.	5.6	5
17	Nonlinear behaviors of an acoustical resonator: theoretical and experimental evidences. Procedia Engineering, 2017, 199, 643-648.	1.2	1
18	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

#	Article	IF	Citations
19	Assessment of single-sided ventilation with acoustic shutters on windows. Building Simulation, 2015, 8, 689-700.	5.6	5
20	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
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	Modelling of the acoustical properties of hemp particles. Construction and Building Materials, 2012, 37, 801-811.	7.2	50
23	Acoustical properties of materials made of vegetable particles with several scales of porosity. Applied Acoustics, 2011, 72, 249-259.	3.3	174
24	Extension of Double Porosity Model to Porous Materials Containing Specific Porous Inclusions. Acta Acustica United With Acustica, 2010, 96, 275-291.	0.8	12
25	Applications of the Dual Porosity Theory to Irregularly Shaped Porous Materials. Acta Acustica United With Acustica, 2008, 94, 715-724.	0.8	18
26	Pompage Ã©nergÃ©tique : conception, efficacitÃ©, expÃ©rimentation. Mecanique Et Industries, 2007, 8, 279-282.	0.2	1
27	Micro-Macro Modelling Approach of Vegetal Wools Thermal Conductivity. , 0, , .		0
28	Link between Acoustic and Hygrothermal Behavior of Hemp Shiv and Pith Composites. , 0, , .		1