John L Davy

List of Publications by Year
in descending order

56 papers	809 citations	623734 14 h-index	526287 27 g-index
61 all docs	61 docs citations	61 times ranked	515 citing authors

#	Article	IF	Citations
1	Acoustic properties of multilayer sound absorbers with a 3D printed micro-perforated panel. Applied Acoustics, 2017, 121, 25-32.	3.3	115
2	Acoustic properties of a porous polycarbonate material produced by additive manufacturing. Materials Letters, 2016, 181, 296-299.	2.6	83
3	Passive acoustic bubble sizing in sparged systems. Experiments in Fluids, 2001, 30, 672-682.	2.4	74
4	Acoustic measurement of a 3D printed micro-perforated panel combined with a porous material. Measurement: Journal of the International Measurement Confederation, 2017, 104, 233-236.	5.0	45
5	Predicting the Sound Insulation of Walls. Building Acoustics, 2009, 16, 1-20.	1.9	42
6	The relative variance of the transmission function of a reverberation room. Journal of Sound and Vibration, 1981, 77, 455-479.	3.9	37
7	The improvement of a simple theoretical model for the prediction of the sound insulation of double leaf walls. Journal of the Acoustical Society of America, 2010, 127, 841-849.	1.1	34
8	Predicting the sound insulation of single leaf walls: Extension of Cremerâ€™s model. Journal of the Acoustical Society of America, 2009, 126, 1871.	1.1	30
9	The ensemble variance of random noise in a reverberation room. Journal of Sound and Vibration, 1986, 107, 361-373.	3.9	27
10	Sound transmission of cavity walls due to structure borne transmission via point and line connections. Journal of the Acoustical Society of America, 2012, 132, 814-821.	1.1	25
11	Wind turbine sound limits: Current status and recommendations based on mitigating noise annoyance. Applied Acoustics, 2018, 140, 288-295.	3.3	23
12	Improvements to formulae for the ensemble relative variance of random noise in a reverberation room. Journal of Sound and Vibration, 1987, 115, 145-161.	3.9	19
13	The forced radiation efficiency of finite size flat panels that are excited by incident sound. Journal of the Acoustical Society of America, 2009, 126, 694-702.	1.1	19
14	Sound transmission loss of ETICS cladding systems considering the structure-borne transmission via the mechanical fixings: Numerical prediction model and experimental evaluation. Applied Acoustics, 2017, 122, 88-97.	3.3	19
15	The variance of decay rates at low frequencies. Applied Acoustics, 1988, 23, 63-79.	3.3	15
16	The acoustic radiation impedance of a rectangular panel. Building and Environment, 2015, 92, 743-755.	6.9	14
17	Prediction of the acoustic effect of an interior trim porous material inside a rigid-walled car air cavity model. Applied Acoustics, 2020, 165, 107325.	3.3	14
18	A review of the different approaches to predict the sound transmission loss of building partitions. Building Acoustics, 2020, 27, 253-279.	1.9	12

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19	Mel frequency cepstral coefficient temporal feature integration for classifying squeak and rattle noise. Journal of the Acoustical Society of America, 2021, 150, 193-201.	1.1	11
20	The variance of the discrete frequency transmission function of a reverberant room. Journal of the Acoustical Society of America, 2009, 126, 1199-1206.	1.1	9
21	The prediction of flanking sound transmission below the critical frequency. Journal of the Acoustical Society of America, 2012, 132, 2359-2370.	1.1	9
22	Variations in measured sound transmission loss due to sample size and construction parameters. Applied Acoustics, 2015, 89, 166-177.	3.3	9
23	Predicting the sound insulation of plywood panels when treated with decoupled mass loaded barriers. Applied Acoustics, 2015, 91, 64-72.	3.3	8
24	The statistical bandwidth of Butterworth filters. Journal of Sound and Vibration, 1987, 115, 539-549.	3.9	7
25	The average specific forced radiation wave impedance of a finite rectangular panel. Journal of the Acoustical Society of America, 2014, 136, 525-536.	1.1	7
26	A Review of the Possible Perceptual and Physiological Effects of Wind Turbine Noise. Trends in Hearing, 2018, 22, 233121651878955.	1.3	7
27	The variance of reverberation time measurements due to loudspeaker position variation. Journal of Sound and Vibration, 1989, 132, 403-409.	3.9	6
28	Predicting the Sound Insulation of Lightweight Sandwich Panels. Building Acoustics, 2013, 20, 177-192.	1.9	6
29	Empirical corrections for predicting the sound insulation of double leaf cavity stud building elements with stiffer studs. Journal of the Acoustical Society of America, 2019, 145, 703-713.	1.1	6
30	A Review of the Potential Impacts of Wind Turbine Noise in the Australian Context. Acoustics Australia, 2020, 48, 181-197.	2.4	6
31	Prediction of random incidence sound absorption coefficients of porous materials. Applied Acoustics, 2022, 189, 108625.	3.3	6
32	The directivity of the sound radiation from panels and openings. Journal of the Acoustical Society of America, 2009, 125, 3795-3805.	1.1	5
33	An empirical model for the equivalent translational compliance of steel studs. Journal of the Acoustical Society of America, 2012, 131, 4615-4624.	1.1	5
34	The sound insulation of single leaf finite size rectangular plywood panels with orthotropic frequency dependent bending stiffness. Journal of the Acoustical Society of America, 2016, 139, 520-528.	1.1	5
35	The effect of moving microphones and rotating diffusers on the variance of decay rate. Applied Acoustics, 1988, 24, 1-14.	3.3	4
36	Qualification of room diffusion for absorption measurements. Applied Acoustics, 1989, 28, 177-185.	3.3	4

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37	The Influence of the Wall Cavity on the Transmission Loss of Wall Systems â€” Experimental Trends. Building Acoustics, 2013, 20, 87-105.	1.9	4
38	The damping of gypsum plaster board wooden stud cavity walls. Applied Acoustics, 2015, 88, 52-56.	3.3	4
39	The influence of finite and infinite wall cavities on the sound insulation of double-leaf walls. Journal of the Acoustical Society of America, 2017, 141, 207-218.	1.1	4
40	The Concept modeling method: An approach to optimize the structural dynamics of a vehicle body. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2020, 234, 2923-2932.	1.9	4
41	The equivalent translational compliance of steel or wood studs and resilient channel bars. Journal of the Acoustical Society of America, 2015, 137, 1647-1657.	1.1	3
42	Evaluating the lining of anechoic room. Journal of Sound and Vibration, 1989, 132, 411-422.	3.9	2
43	The Development of a Flush Mounted Microphone Turbulence Screen for Use in a Power Station Chimney Flue. Noise Control Engineering Journal, 1993, 41, 313.	0.3	2
44	The modal and flow velocity corrections of microphone turbulence screens. Journal of Sound and Vibration, 2007, 306, 172-191.	3.9	2
45	Prediction of the effect of porous sound-absorbing material inside a coupled plate cavity system. International Journal of Vehicle Noise and Vibration, 2016, 12, 314.	0.1	2
46	Two definitions of the inner product of modes and their use in calculating non-diffuse reverberant sound fields. Journal of the Acoustical Society of America, 2019, 145, 3330-3340.	1.1	2
47	The sound insulation and directivity of the sound radiation from double glazed windows. Journal of the Acoustical Society of America, 2020, 148, 2173-2181.	1.1	2
48	The variance of the curvature of reverberant decays. Journal of Sound and Vibration, 1989, 128, 297-305.	3.9	1
49	The directivity of the forced radiation of sound from panels and openings including the shadow zone. Proceedings of Meetings on Acoustics, 2008, , .	0.3	1
50	Landmark-based audio fingerprinting system applied to vehicle squeak and rattle noises. Noise Control Engineering Journal, 2020, 68, 113-124.	0.3	1
51	Squeak and rattle noise classification using radial basis function neural networks. Noise Control Engineering Journal, 2020, 68, 283-293.	0.3	1
52	Comment on â€œRelative variance of the mean squared pressure in multimode media: Rehabilitating former approachesâ€•[J. Acoust. Soc. Am. 136, 2621â€“2629 (2014)]. Journal of the Acoustical Society of America, 2015, 137, 1598-1601.	1.1	0
53	Predicting the absorption of perforated panels backed by resistive textiles. Noise Control Engineering Journal, 2016, 64, 259-267.	0.3	0
54	The transmitted and reflected waves due to the incidence of a forced wave on a junction. Building Acoustics, 2016, 23, 3-16.	1.9	0

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55	The geometric mean is a superior frequency response averaging method for human body vibration. Ergonomics, 2021, 64, 273-283.	2.1	0
56	Prediction of the effect of porous sound-absorbing material inside a coupled plate cavity system. International Journal of Vehicle Noise and Vibration, 2016, 12, 314.	0.1	0