

Judicaël Picaut

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

807
citations

471061

17
h-index

500791

28
g-index

44
all docs

44
docs citations

44
times ranked

435
citing authors

#	ARTICLE	IF	CITATIONS
1	NoiseCapture smartphone application as pedagogical support for education and public awareness. Journal of the Acoustical Society of America, 2022, 151, 3255-3265.	0.5	6
2	Inhomogeneous diffusion process in elongated rooms: An interpretation based on the dynamics of sound particles. JASA Express Letters, 2021, 1, 051601.	0.5	0
3	A Smartphone-Based Crowd-Sourced Database for Environmental Noise Assessment. International Journal of Environmental Research and Public Health, 2021, 18, 7777.	1.2	12
4	Low-Cost Sensors for Urban Noise Monitoring Networks – A Literature Review. Sensors, 2020, 20, 2256.	2.1	33
5	DEUFRABASE: A Simple Tool for the Evaluation of the Noise Impact of Pavements in Typical Road Geometries. Environments - MDPI, 2019, 6, 27.	1.5	1
6	NoiseModelling: An Open Source GIS Based Tool to Produce Environmental Noise Maps. ISPRS International Journal of Geo-Information, 2019, 8, 130.	1.4	42
7	An open-science crowdsourcing approach for producing community noise maps using smartphones. Building and Environment, 2019, 148, 20-33.	3.0	81
8	Extending standard urban outdoor noise propagation models to complex geometries. Journal of the Acoustical Society of America, 2018, 143, 2066-2075.	0.5	1
9	A Transmission Line Matrix model for sound propagation in arrays of cylinders normal to an impedance plane. Journal of Sound and Vibration, 2017, 389, 454-467.	2.1	7
10	Collaborative noise data collected from smartphones. Data in Brief, 2017, 14, 498-503.	0.5	19
11	Including scattering within the room acoustics diffusion model: An analytical approach. Journal of the Acoustical Society of America, 2016, 140, 2659-2669.	0.5	6
12	Noise mapping based on participative measurements. Noise Mapping, 2016, 3, .	0.7	39
13	Cross-calibration of participatory sensor networks for environmental noise mapping. Applied Acoustics, 2016, 110, 99-109.	1.7	16
14	Experimental analysis of the relationship between reverberant acoustic intensity and energy density inside long rooms. Journal of the Acoustical Society of America, 2015, 138, 181-192.	0.5	2
15	Accounting for the effect of diffuse reflections and fittings within street canyons, on the sound propagation predicted by ray tracing codes. Applied Acoustics, 2015, 96, 83-93.	1.7	12
16	An absorbing matched layer implementation for the transmission line matrix method. Journal of Sound and Vibration, 2015, 337, 233-243.	2.1	1
17	Évaluation environnementale du PDU nantais 2000-2010 – À partir des simulations numériques des scénarios alternatifs du programme Eval-PDU. Recherche - Transports - Sécurité, 2015, 2015, 97-120.	0.1	1
18	A simple absorbing layer implementation for transmission line matrix modeling. Journal of Sound and Vibration, 2013, 332, 4560-4571.	2.1	6

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19	A numerical and experimental validation of the room acoustics diffusion theory inside long rooms. Proceedings of Meetings on Acoustics, 2013, , .	0.3	3
20	A numerical investigation of the Fick's law of diffusion in room acoustics. Journal of the Acoustical Society of America, 2012, 132, 3180-3189.	0.5	25
21	Acoustic Predictions in Industrial Spaces Using a Diffusion Model. Advances in Acoustics and Vibration, 2012, 2012, 1-9.	0.5	8
22	Time-domain impedance formulation for transmission line matrix modelling of outdoor sound propagation. Journal of Sound and Vibration, 2011, 330, 6467-6481.	2.1	19
23	An Empirical Diffusion Model for Acoustic Prediction in Rooms with Mixed Diffuse and Specular Reflections. Acta Acustica United With Acustica, 2009, 95, 97-105.	0.8	16
24	Using Acoustic Diffusers to Reduce Noise in Urban Areas. Acta Acustica United With Acustica, 2009, 95, 653-668.	0.8	12
25	Prediction of the reverberation time in high absorbent room using a modified-diffusion model. Applied Acoustics, 2008, 69, 68-74.	1.7	34
26	Modeling the sound transmission between rooms coupled through partition walls by using a diffusion model. Journal of the Acoustical Society of America, 2008, 123, 4261-4271.	0.5	19
27	Introducing atmospheric attenuation within a diffusion model for room-acoustic predictions. Journal of the Acoustical Society of America, 2008, 123, 4040-4043.	0.5	23
28	On the use of a diffusion equation for room-acoustic prediction. Journal of the Acoustical Society of America, 2006, 119, 1504-1513.	0.5	64
29	On the use of a diffusion model for acoustically coupled rooms. Journal of the Acoustical Society of America, 2006, 120, 2043-2054.	0.5	59
30	Experimental study of sound propagation in a street. Applied Acoustics, 2005, 66, 149-173.	1.7	40
31	Sound-field modeling in architectural acoustics by a transport theory: Application to street canyons. Physical Review E, 2005, 72, 046609.	0.8	11
32	Sound field modeling in a street canyon with partially diffusely reflecting boundaries by the transport theory. Journal of the Acoustical Society of America, 2004, 116, 2969-2983.	0.5	24
33	Numerical modeling of urban sound fields by a diffusion process. Applied Acoustics, 2002, 63, 965-991.	1.7	16
34	A scale model experiment for the study of sound propagation in urban areas. Applied Acoustics, 2001, 62, 327-340.	1.7	50
35	Sound propagation in urban areas: A periodic disposition of buildings. Physical Review E, 1999, 60, 4851-4859.	0.8	14
36	Sound field modeling in streets with a diffusion equation. Journal of the Acoustical Society of America, 1999, 106, 2638-2645.	0.5	41

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37	Sound field in long rooms with diffusely reflecting boundaries. Applied Acoustics, 1999, 56, 217-240.	1.7	35