

# 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	An open-science crowdsourcing approach for producing community noise maps using smartphones. <i>Building and Environment</i> , 2019, 148, 20-33.	3.0	81
2	On the use of a diffusion equation for room-acoustic prediction. <i>Journal of the Acoustical Society of America</i> , 2006, 119, 1504-1513.	0.5	64
3	On the use of a diffusion model for acoustically coupled rooms. <i>Journal of the Acoustical Society of America</i> , 2006, 120, 2043-2054.	0.5	59
4	A scale model experiment for the study of sound propagation in urban areas. <i>Applied Acoustics</i> , 2001, 62, 327-340.	1.7	50
5	NoiseModelling: An Open Source GIS Based Tool to Produce Environmental Noise Maps. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 130.	1.4	42
6	Sound field modeling in streets with a diffusion equation. <i>Journal of the Acoustical Society of America</i> , 1999, 106, 2638-2645.	0.5	41
7	Experimental study of sound propagation in a street. <i>Applied Acoustics</i> , 2005, 66, 149-173.	1.7	40
8	Noise mapping based on participative measurements. <i>Noise Mapping</i> , 2016, 3, .	0.7	39
9	Sound field in long rooms with diffusely reflecting boundaries. <i>Applied Acoustics</i> , 1999, 56, 217-240.	1.7	35
10	Prediction of the reverberation time in high absorbent room using a modified-diffusion model. <i>Applied Acoustics</i> , 2008, 69, 68-74.	1.7	34
11	Low-Cost Sensors for Urban Noise Monitoring Networks – A Literature Review. <i>Sensors</i> , 2020, 20, 2256.	2.1	33
12	A numerical investigation of the Fick's law of diffusion in room acoustics. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 3180-3189.	0.5	25
13	Sound field modeling in a street canyon with partially diffusely reflecting boundaries by the transport theory. <i>Journal of the Acoustical Society of America</i> , 2004, 116, 2969-2983.	0.5	24
14	Introducing atmospheric attenuation within a diffusion model for room-acoustic predictions. <i>Journal of the Acoustical Society of America</i> , 2008, 123, 4040-4043.	0.5	23
15	Modeling the sound transmission between rooms coupled through partition walls by using a diffusion model. <i>Journal of the Acoustical Society of America</i> , 2008, 123, 4261-4271.	0.5	19
16	Time-domain impedance formulation for transmission line matrix modelling of outdoor sound propagation. <i>Journal of Sound and Vibration</i> , 2011, 330, 6467-6481.	2.1	19
17	Collaborative noise data collected from smartphones. <i>Data in Brief</i> , 2017, 14, 498-503.	0.5	19
18	Numerical modeling of urban sound fields by a diffusion process. <i>Applied Acoustics</i> , 2002, 63, 965-991.	1.7	16

#	ARTICLE	IF	CITATIONS
19	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
20	Cross-calibration of participatory sensor networks for environmental noise mapping. Applied Acoustics, 2016, 110, 99-109.	1.7	16
21	Sound propagation in urban areas: A periodic disposition of buildings. Physical Review E, 1999, 60, 4851-4859.	0.8	14
22	Using Acoustic Diffusers to Reduce Noise in Urban Areas. Acta Acustica United With Acustica, 2009, 95, 653-668.	0.8	12
23	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
24	A Smartphone-Based Crowd-Sourced Database for Environmental Noise Assessment. International Journal of Environmental Research and Public Health, 2021, 18, 7777.	1.2	12
25	Sound-field modeling in architectural acoustics by a transport theory: Application to street canyons. Physical Review E, 2005, 72, 046609.	0.8	11
26	Acoustic Predictions in Industrial Spaces Using a Diffusion Model. Advances in Acoustics and Vibration, 2012, 2012, 1-9.	0.5	8
27	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
28	A simple absorbing layer implementation for transmission line matrix modeling. Journal of Sound and Vibration, 2013, 332, 4560-4571.	2.1	6
29	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
30	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
31	A numerical and experimental validation of the room acoustics diffusion theory inside long rooms. Proceedings of Meetings on Acoustics, 2013, , .	0.3	3
32	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
33	An absorbing matched layer implementation for the transmission line matrix method. Journal of Sound and Vibration, 2015, 337, 233-243.	2.1	1
34	Extending standard urban outdoor noise propagation models to complex geometries. Journal of the Acoustical Society of America, 2018, 143, 2066-2075.	0.5	1
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Inhomogeneous diffusion process in elongated rooms: An interpretation based on the dynamics of sound particles. JASA Express Letters, 2021, 1, 051601.	0.5	0