

# Bert De Coensel

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

1,455  
citations

393982

19  
h-index

329751

37  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1102  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of natural sounds on the perception of road traffic noise. Journal of the Acoustical Society of America, 2011, 129, EL148-EL153.	0.5	133
2	Assessment of the impact of speed limit reduction and traffic signal coordination on vehicle emissions using an integrated approach. Transportation Research, Part D: Transport and Environment, 2011, 16, 504-508.	3.2	125
3	Using Virtual Reality for assessing the role of noise in the audio-visual design of an urban public space. Landscape and Urban Planning, 2017, 167, 98-107.	3.4	118
4	The temporal structure of urban soundscapes. Journal of Sound and Vibration, 2006, 292, 105-123.	2.1	112
5	The influence of traffic flow dynamics on urban soundscapes. Applied Acoustics, 2005, 66, 175-194.	1.7	83
6	A model for the perception of environmental sound based on notice-events. Journal of the Acoustical Society of America, 2009, 126, 656-665.	0.5	76
7	Effects of traffic signal coordination on noise and air pollutant emissions. Environmental Modelling and Software, 2012, 35, 74-83.	1.9	66
8	Dynamic noise mapping: A map-based interpolation between noise measurements with high temporal resolution. Applied Acoustics, 2016, 101, 127-140.	1.7	65
9	Interactive soundscape augmentation by natural sounds in a noise polluted urban park. Landscape and Urban Planning, 2020, 194, 103705.	3.4	54
10	Classification of soundscapes of urban public open spaces. Landscape and Urban Planning, 2019, 189, 139-155.	3.4	52
11	Kriging-based spatial interpolation from measurements for sound level mapping in urban areas. Journal of the Acoustical Society of America, 2018, 143, 2847-2857.	0.5	48
12	Modeling Soundscape Pleasantness Using perceptual Assessments and Acoustic Measurements Along Paths in Urban Context. Acta Acustica United With Acustica, 2017, 103, 430-443.	0.8	47
13	Effect of interaction between attention focusing capability and visual factors on road traffic noise annoyance. Applied Acoustics, 2018, 134, 16-24.	1.7	43
14	A computational model of auditory attention for use in soundscape research. Journal of the Acoustical Society of America, 2013, 134, 852-861.	0.5	40
15	A road traffic noise pattern simulation model that includes distributions of vehicle sound power levels. Applied Acoustics, 2016, 111, 170-178.	1.7	33
16	The Personal Viewpoint on the Meaning of Tranquility Affects the Appraisal of the Urban Park Soundscape. Applied Sciences (Switzerland), 2017, 7, 91.	1.3	30
17	Personal Audiovisual Aptitude Influences the Interaction Between Landscape and Soundscape Appraisal. Frontiers in Psychology, 2018, 9, 780.	1.1	28
18	Relationship between road and railway noise annoyance and overall indoor sound exposure. Transportation Research, Part D: Transport and Environment, 2011, 16, 15-22.	3.2	25

#	ARTICLE	IF	CITATIONS
19	Community Response to Multiple Sound Sources: Integrating Acoustic and Contextual Approaches in the Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 663.	1.2	25
20	Auditory sensory saliency as a better predictor of change than sound amplitude in pleasantness assessment of reproduced urban soundscapes. <i>Building and Environment</i> , 2019, 148, 730-741.	3.0	18
21	Reduction of Wind Turbine Noise Annoyance: An Operational Approach. <i>Acta Acustica United With Acustica</i> , 2012, 98, 392-401.	0.8	16
22	The acoustic summary as a tool for representing urban sound environments. <i>Landscape and Urban Planning</i> , 2015, 144, 34-48.	3.4	16
23	Global and Continuous Pleasantness Estimation of the Soundscape Perceived during Walking Trips through Urban Environments. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 144.	1.3	15
24	Speech recognition in noise with active and passive hearing protectors: A comparative study. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 3702-3715.	0.5	12
25	In Situ Mortality Experiments with Juvenile Sea Bass ( <i>Dicentrarchus labrax</i> ) in Relation to Impulsive Sound Levels Caused by Pile Driving of Windmill Foundations. <i>PLoS ONE</i> , 2014, 9, e109280.	1.1	12
26	A study of the performance of a generalized exceedance algorithm for detecting noise events caused by road traffic. <i>Applied Acoustics</i> , 2018, 138, 101-114.	1.7	12
27	Detection of road pavement quality using statistical clustering methods. <i>Journal of Intelligent Information Systems</i> , 2020, 54, 483-499.	2.8	12
28	Context-dependent environmental sound monitoring using SOM coupled with LEGION. , 2010, , .		11
29	Presence of $1/f$ noise in the temporal structure of psychoacoustic parameters of natural and urban sounds. <i>Journal of the Acoustical Society of America</i> , 2015, 138, 916-927.	0.5	11
30	Imprinted Polymer-Based Guided Mode Resonance Grating Strain Sensors. <i>Sensors</i> , 2020, 20, 3221.	2.1	10
31	Opportunistic monitoring of pavements for noise labeling and mitigation with machine learning. <i>Transportation Research, Part D: Transport and Environment</i> , 2021, 90, 102636.	3.2	10
32	Activity Interference Caused by Traffic Noise: Experimental Determination and Modeling of the Number of Noticed Sound Events. <i>Acta Acustica United With Acustica</i> , 2013, 99, 389-398.	0.8	8
33	Map Matching and Lane Detection Based on Markovian Behavior, GIS, and IMU Data. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 2056-2070.	4.7	8
34	The Rhythm of the Urban Soundscape. <i>Noise and Vibration Worldwide</i> , 2007, 38, 11-17.	0.4	7
35	The Soundscape Hackathon as a Methodology to Accelerate Co-Creation of the Urban Public Space. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1932.	1.3	7
36	Clustering outdoor soundscapes using fuzzy ants. , 2008, , .		6

#	ARTICLE	IF	CITATIONS
37	The internet of sound observatories. Proceedings of Meetings on Acoustics, 2013, , .	0.3	6
38	Machine Listening for Park Soundscape Quality Assessment. Acta Acustica United With Acustica, 2018, 104, 121-130.	0.8	6
39	EEG Correlates of Learning From Speech Presented in Environmental Noise. Frontiers in Psychology, 2020, 11, 1850.	1.1	6
40	A model for long-term environmental sound detection. , 2008, , .		5
41	Interference of Speech and Interior Noise of Chinese High-Speed Trains with Task Performance. Acta Acustica United With Acustica, 2012, 98, 790-799.	0.8	5
42	Attention-driven auditory stream segregation using a SOM coupled with an excitatory-inhibitory ANN. , 2012, , .		5
43	A biologically inspired recurrent neural network for sound source recognition incorporating auditory attention. , 2013, , .		5
44	Probabilistic Modelling of the Temporal Variability of Urban Sound Levels. Acta Acustica United With Acustica, 2018, 104, 94-105.	0.8	5
45	Long-term learning behavior in a recurrent neural network for sound recognition. , 2014, , .		3
46	Modifying and co-creating the urban soundscape through digital technologies. SÃ©rie Cultura E TerritÃ³rio, 2020, , 185-200.	0.1	3
47	A scalable, self-supervised calibration and confounder removal model for opportunistic monitoring of road degradation. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 1703-1720.	6.3	3
48	Perceptual constancy in auditory perception of distance to railway tracks. Journal of the Acoustical Society of America, 2013, 134, 474-480.	0.5	2
49	Effects of Offshore Wind Farms on the Early Life Stages of Dicentrarchus labrax. Advances in Experimental Medicine and Biology, 2016, 875, 197-204.	0.8	0