

Massimo Garai

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

940
citations

623734

14
h-index

501196

28
g-index

59
all docs

59
docs citations

59
times ranked

753
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of the dispersion relation in cross-laminated timber plates: Benchmarking of time- and frequency-domain methods. <i>Applied Acoustics</i> , 2022, 185, 108400.	3.3	3
2	Measuring and modelling the effect of base zone on sound absorption of persian rug. <i>Journal of the Textile Institute</i> , 2022, 113, 2778-2786.	1.9	2
3	Measuring and modeling the effect of density and pile height on sound absorption of double base Persian rug. <i>Journal of Industrial Textiles</i> , 2022, 51, 5728S-5755S.	2.4	1
4	Influence of thermal deformations on sound absorption of three-dimensional printed metamaterials. <i>Journal of the Acoustical Society of America</i> , 2022, 151, 3770-3779.	1.1	8
5	A Trial Acoustic Improvement in a Lecture Hall with MPP Sound Absorbers and FDTD Acoustic Simulations. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2445.	2.5	13
6	Unsupervised analysis of background noise sources in active offices. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 4049-4060.	1.1	12
7	A newly developed low-cost 3D acoustic positioning system: Description and application in a reverberation room. <i>Applied Acoustics</i> , 2020, 160, 107127.	3.3	1
8	Preparation and assessment of the potential energy savings of thermochromic and cool coatings considering inter-building effects. <i>Solar Energy</i> , 2020, 209, 493-504.	6.1	48
9	Acoustic comfort in highly attended museums: A dynamical model. <i>Building and Environment</i> , 2020, 183, 107176.	6.9	12
10	Enhancing the strength of symphonic orchestra in an opera house. <i>Applied Acoustics</i> , 2020, 170, 107532.	3.3	3
11	Measuring the speech level and the student activity in lecture halls: Visual- vs blind-segmentation methods. <i>Applied Acoustics</i> , 2020, 169, 107448.	3.3	12
12	Understanding the acoustics of St. John's Baptistery in Pisa through a virtual approach. <i>Journal of Building Performance Simulation</i> , 2020, 13, 320-333.	2.0	10
13	Towards more reliable measurements of sound absorption coefficient in reverberation rooms: An Inter-Laboratory Test. <i>Applied Acoustics</i> , 2020, 165, 107298.	3.3	16
14	A virtual orchestra to qualify the acoustics of historical opera houses. <i>Building Acoustics</i> , 2020, 27, 235-252.	1.9	4
15	The Proscenium of Opera Houses as a Disappeared Intangible Heritage: A Virtual Reconstruction of the 1840s Original Design of the Alighieri Theatre in Ravenna. <i>Acoustics</i> , 2019, 1, 694-710.	1.4	8
16	Fixed Grid Numerical Models for Solidification and Melting of Phase Change Materials (PCMs). <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4334.	2.5	27
17	Measuring and identifying background noises in offices during work hours. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 609, 042005.	0.6	2
18	Phase change materials (PCM) for building envelope applications: A review of numerical models. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	3

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19	The aesthetics of the Bayreuth Festspielhaus explained by means of acoustic measurements and simulations. <i>Journal of Cultural Heritage</i> , 2018, 34, 151-158.	3.3	16
20	Energy Retrofitting Strategies and Economic Assessments: The Case Study of a Residential Complex Using Utility Bills. <i>Energies</i> , 2018, 11, 2055.	3.1	17
21	Measurement of flanking transmission for the characterisation and classification of cross laminated timber junctions. <i>Applied Acoustics</i> , 2018, 141, 213-222.	3.3	20
22	Comparison of different in situ measurements techniques of intelligibility in an open-plan office. <i>Building Acoustics</i> , 2018, 25, 111-122.	1.9	8
23	Measuring the dynamic stiffness of resilient materials using ESS and MLS signals. <i>Applied Acoustics</i> , 2018, 138, 92-100.	3.3	4
24	The Uncertainty Declaration of Building Acoustics Measurements: How to Select the Uncertainty of Reproducibility from Inter-Laboratory Tests. <i>Acta Acustica United With Acustica</i> , 2018, 104, 295-303.	0.8	2
25	Geometric optimization of morphing fins coupled with a semicircular heat generating body: A numerical investigation on the basis of Bejan's theory. <i>International Communications in Heat and Mass Transfer</i> , 2017, 86, 81-91.	5.6	7
26	The autocorrelation-based analysis as a tool of sound perception in a reverberant field. <i>Rivista Di Estetica</i> , 2017, , 133-147.	0.1	9
27	Recordings of Italian opera orchestra and soloists in a silent room. <i>Proceedings of Meetings on Acoustics</i> , 2016, , .	0.3	8
28	Experimental measurements of flanking transmission in CLT structures. <i>Proceedings of Meetings on Acoustics</i> , 2016, , .	0.3	11
29	Dynamic Simulation on Energy Performance of a School. <i>Energy Procedia</i> , 2016, 101, 1026-1033.	1.8	7
30	Energy management in public institutional and educational buildings: The case of the school of engineering and architecture in Bologna. <i>Energy and Buildings</i> , 2016, 126, 365-374.	6.7	34
31	Overall indoor quality of a non-renewed secondary-school building. <i>Building Acoustics</i> , 2016, 23, 47-58.	1.9	2
32	Standardised acoustic characterisation of sonic crystals noise barriers: Sound insulation and reflection properties. <i>Applied Acoustics</i> , 2016, 114, 294-306.	3.3	74
33	Energy performance of a ventilation system for an apartment according to the Italian regulation. <i>International Journal of Energy and Environmental Engineering</i> , 2016, 7, 353-359.	2.5	10
34	Sound energy distribution in Italian opera houses. <i>Proceedings of Meetings on Acoustics</i> , 2016, , .	0.3	10
35	Energy balance and second law analysis applied to buildings: an opportunity for Bejan's theory. <i>International Journal of Heat and Technology</i> , 2016, 34, S185-S187.	0.6	3
36	Energy balance and second law analysis applied to buildings: an opportunity for Bejan's theory. <i>International Journal of Heat and Technology</i> , 2016, 34, S185-S187.	0.6	0

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37	Impulse Responses Measured with MLS or Swept-Sine Signals Applied to Architectural Acoustics: An In-depth Analysis of the Two Methods and Some Case Studies of Measurements Inside Theaters. Energy Procedia, 2015, 78, 1611-1616.	1.8	28
38	Preliminary Energy Audit of the Historical Building of the School of Engineering and Architecture of Bologna. Energy Procedia, 2015, 81, 64-73.	1.8	12
39	Acoustic Measurements on a Sonic Crystals Barrier. Energy Procedia, 2015, 78, 134-139.	1.8	10
40	Overall Indoor Quality of a Non-renewed Secondary-school Building. Energy Procedia, 2015, 78, 3126-3131.	1.8	10
41	Retrofit Strategies Applied to a Tertiary Building Assisted by Trnsys Energy Simulation Tool. Energy Procedia, 2015, 78, 765-770.	1.8	12
42	Extraction of the envelope from impulse responses using pre-processed energy detection for early decay estimation. Journal of the Acoustical Society of America, 2015, 138, 2513-2523.	1.1	11
43	First and second law analysis applied to building envelope: A theoretical approach on the potentiality of Bejan's theory. Energy Reports, 2015, 1, 181-183.	5.1	11
44	Sound reflection measurements on noise barriers in critical conditions. Building and Environment, 2015, 94, 752-763.	6.9	20
45	Acoustic measurements in eleven Italian opera houses: Correlations between room criteria and considerations on the local evolution of a typology. Building and Environment, 2015, 94, 900-912.	6.9	22
46	Repeatability and Reproducibility of <math>R_{in situ}</math> Measurements of Sound Reflection and Airborne Sound Insulation Index of Noise Barriers. Acta Acustica United With Acustica, 2014, 100, 1186-1201.	0.8	12
47	In-situ measurements of sound reflection and sound insulation of noise barriers: Validation by means of signal-to-noise ratio calculations. Proceedings of Meetings on Acoustics, 2013, , .	0.3	1
48	Advancements in Sound Reflection and Airborne Sound Insulation Measurement on Noise Barriers. Open Journal of Acoustics, 2013, 03, 25-38.	0.3	9
49	A comparison of methods to compute the "effective duration" of the autocorrelation function and an alternative proposal. Journal of the Acoustical Society of America, 2011, 130, 1954-1961.	1.1	12
50	Strategic noise mapping of the agglomeration of Bologna, Italy. WIT Transactions on the Built Environment, 2009, , .	0.0	4
51	In situ measurements of the intrinsic characteristics of the acoustic barriers installed along a new high speed railway line. Noise Control Engineering Journal, 2008, 56, 342.	0.3	6
52	A simple empirical model of polyester fibre materials for acoustical applications. Applied Acoustics, 2005, 66, 1383-1398.	3.3	196
53	Scale Model Investigation on the Influence of Boundary Conditions on the Airborne Sound Insulation of Lightweight Double Walls. Building Acoustics, 2000, 7, 263-276.	1.9	1
54	BOXES AND SOUND QUALITY IN AN ITALIAN OPERA HOUSE. Journal of Sound and Vibration, 2000, 232, 171-191.	3.9	8

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55	European methodology for testing the airborne sound insulation characteristics of noise barriers in situ: Experimental verification and comparison with laboratory data. Journal of the Acoustical Society of America, 2000, 108, 1054.	1.1	46
56	Measurement of the sound-absorption coefficient in situ: The reflection method using periodic pseudo-random sequences of maximum length. Applied Acoustics, 1993, 39, 119-139.	3.3	80
57	Experimental verification of a short method for the determination of the acoustical insulation index of party walls. Applied Acoustics, 1989, 28, 83-94.	3.3	0