

# Lamberto Tronchin

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

1,493  
citations

270111

25  
h-index

371746

37  
g-index

80  
all docs

80  
docs citations

80  
times ranked

1073  
citing authors

#	ARTICLE	IF	CITATIONS
1	How Much Does the Variety of Scenery and the Different Percentages of Audience Occupancy Affect the Indoor Acoustics at the National Theater of Zagreb?. Applied Sciences (Switzerland), 2022, 12, 6500.	1.3	15
2	Data-driven building energy modelling – An analysis of the potential for generalisation through interpretable machine learning. Renewable and Sustainable Energy Reviews, 2022, 167, 112686.	8.2	32
3	Coconut fibre insulators: The hygrothermal behaviour in the case of green roofs. Construction and Building Materials, 2021, 266, 121026.	3.2	20
4	On the acoustics of the Teatro 1763 in Bologna. Applied Acoustics, 2021, 172, 107598.	1.7	31
5	Virtual acoustic reconstruction of the Minersâ€™ Theatre in Idrija (Slovenia). Applied Acoustics, 2021, 172, 107595.	1.7	27
6	Evaluation of Acoustic Features after Refurbishment Works Inside Two Historical Opera Theatres Located in Italy. Acoustics, 2021, 3, 316-336.	0.8	5
7	Variability of room acoustic parameters with thermo-hygrometric conditions. Applied Acoustics, 2021, 177, 107933.	1.7	51
8	Acoustic study of different sceneries at the SÃ£o Carlos national theatre of Lisbon. Applied Acoustics, 2021, 180, 108102.	1.7	20
9	Techno-economic analysis and energy modelling as a key enablers for smart energy services and technologies in buildings. Renewable and Sustainable Energy Reviews, 2021, 150, 111490.	8.2	41
10	Energy Modelling and Analytics in the Built Environment – A Review of Their Role for Energy Transitions in the Construction Sector. Energies, 2021, 14, 679.	1.6	35
11	On the influence of thermo-hygrometric conditions in 3D acoustic measurements. , 2021, , .		2
12	Celebration theater of Bologna. Acoustic survey after the restoration works of 2015. , 2021, , .		2
13	Acoustic characteristics of the Amphitheatre of Pompei: new approach for the spatial sound analysis. , 2021, , .		1
14	The sound of the cultural heritage: a case study on the Odeon of Pompei. , 2021, , .		1
15	Acoustic response of the Goldoni theater of Bagnacavallo. , 2021, , .		1
16	Acoustics exploration of the Galli theatre of Rimini after the restoration works of 2015. , 2021, , .		2
17	Acoustic parameters of the Municipal Theatre of Piacenza shown on different ways of representation. , 2021, , .		0
18	3dof representation of the acoustic measurements inside the Comunale-Pavarotti Theatre of Modena. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
19	Development of MIMO technique for 3D Auralization. , 2021, , .		1
20	Acoustic measurements of the Roman theatre of Pompei by mapping the sound reflections. , 2021, , .		3
21	Cinema Sound and audio 3D: the case study of Cinema Lux, Rome, Italy. , 2021, , .		4
22	Sound quality of the Valli theatre: standard outcomes and development of data presentation. , 2021, , .		0
23	Comparison Failure and Successful Methodologies for Diffusion Measurements Undertaken inside Two Different Testing Rooms. Applied Sciences (Switzerland), 2021, 11, 10523.	1.3	1
24	Effectiveness of VIPs and PCMs on the energy performance and thermal comfort in buildings. , 2020, , .		2
25	On the hygrothermal behavior of coconuts fiber insulators on green roofs. , 2020, , .		2
26	Thermal insulation of existing buildings and interstitial condensation: comparative assessment in different European climate contexts. , 2020, , .		0
27	Towards the definition of a sustainable Smart Model for the suburbs redevelopment. , 2020, , .		5
28	Experimental measurement of thermal transmittance in reinforced concrete buildings. , 2020, , .		1
29	Acoustic Reconstruction of Eszterházy Opera House Following New Archival Research. Applied Sciences (Switzerland), 2020, 10, 8817.	1.3	5
30	Evaluation of Acoustic Similarities in Two Italian Churches Honored to S. Dominic. Applied Sciences (Switzerland), 2020, 10, 7043.	1.3	22
31	Special Issue on Musical Instruments: Acoustics and Vibration. Applied Sciences (Switzerland), 2020, 10, 3294.	1.3	0
32	Validation and application of three-dimensional auralisation during concert hall renovation. Building Acoustics, 2020, 27, 311-331.	1.1	3
33	The sound diffusion in Italian Opera Houses: Some examples. Building Acoustics, 2020, 27, 333-355.	1.1	10
34	Sound Characterization through Intensity of Acoustic Radiation Measurement: A Study of Persian Musical Instruments. Applied Sciences (Switzerland), 2020, 10, 633.	1.3	16
35	The architectural and acoustic quality for theatres hosting animals. AIP Conference Proceedings, 2020, , .	0.3	1
36	Linking Design and Operation Phase Energy Performance Analysis Through Regression-Based Approaches. Frontiers in Energy Research, 2020, 8, .	1.2	19

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37	The Carabattolaâ€™Vibroacoustical Analysis and Intensity of Acoustic Radiation (IAR). Applied Sciences (Switzerland), 2020, 10, 641.	1.3	12
38	MIMO auralization: An example of loudspeaker. , 2020, , .		7
39	On the link between energy performance of building and thermal comfort: An example. AIP Conference Proceedings, 2019, , .	0.3	17
40	Energy analytics for supporting built environment decarbonisation. Energy Procedia, 2019, 157, 1486-1493.	1.8	36
41	Building performance monitoring: from in-situ measurement to regression-based approaches. IOP Conference Series: Materials Science and Engineering, 2019, 609, 072043.	0.3	2
42	Special Issue on Modelling, Simulation and Data Analysis in Acoustical Problems. Applied Sciences (Switzerland), 2019, 9, 5261.	1.3	1
43	Spatial Information on Voice Generation from a Multi-Channel Electroglottograph. Applied Sciences (Switzerland), 2018, 8, 1560.	1.3	5
44	Controlled Mechanical Ventilation in Buildings: A Comparison between Energy Use and Primary Energy among Twenty Different Devices. Energies, 2018, 11, 2123.	1.6	21
45	Energy Network Modelling Approaches for Multi-Scale Building Performance Optimization. , 2018, , .		2
46	Exergy Analysis of Energy Systems in Buildings. , 2018, , .		0
47	Linking design and operation performance analysis through model calibration: Parametric assessment on a Passive House building. Energy, 2018, 165, 26-40.	4.5	45
48	Transmitting acoustic phenomena and aural illusions: Examples from Athanasius Kircherâ€™s Phonosophia anacampatica. Building Acoustics, 2018, 25, 101-110.	1.1	12
49	Energy efficiency, demand side management and energy storage technologies â€™ A critical analysis of possible paths of integration in the built environment. Renewable and Sustainable Energy Reviews, 2018, 95, 341-353.	8.2	162
50	On the Effects of Variation of Thermal Conductivity in Buildings in the Italian Construction Sector. Energies, 2018, 11, 872.	1.6	55
51	Energy and Microclimate Simulation in a Heritage Building: Further Studies on the Malatestiana Library. Energies, 2017, 10, 1621.	1.6	32
52	Revisiting Historic Buildings through the Senses Visualising Aural and Obscured Aspects of San Vitale, Ravenna. International Journal of Historical Archaeology, 2016, 20, 127-145.	0.2	27
53	Optimization of building energy performance by means of multi-scale analysis â€™ Lessons learned from case studies. Sustainable Cities and Society, 2016, 27, 296-306.	5.1	53
54	Indoor Environmental Quality in Low Energy Buildings. Energy Procedia, 2015, 78, 2778-2783.	1.8	41

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55	Multi-scale Analysis and Optimization of Building Energy Performance â€œ Lessons Learned from Case Studies. <i>Procedia Engineering</i> , 2015, 118, 563-572.	1.2	7
56	Further Investigations in the Emulation of Nonlinear Systems with Volterra Series. <i>AES: Journal of the Audio Engineering Society</i> , 2015, 63, 671-683.	0.8	42
57	Energy Retrofit and Economic Evaluation Priorities Applied at an Italian Case Study. <i>Energy Procedia</i> , 2014, 45, 379-384.	1.8	29
58	3D Sound Characterisation in Theatres Employing Microphone Arrays. <i>Acta Acustica United With Acustica</i> , 2013, 99, 118-125.	0.8	49
59	The Calculation of Energy Performance of Buildings with Summer Degrees. <i>Advanced Materials Research</i> , 2013, 689, 3-7.	0.3	1
60	Francesco Milizia (1725-1798) and the Acoustics of his <i>Teatro Ideale</i> (1773). <i>Acta Acustica United With Acustica</i> , 2013, 99, 91-97.	0.8	34
61	On the effects of pre-processing of impulse responses in the evaluation of acoustic parameters on room acoustics. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	3
62	Energy Performance Certificate of building and confidence interval in assessment: An Italian case study. <i>Energy Policy</i> , 2012, 48, 176-184.	4.2	52
63	Real Estate market, energy rating and cost. Reflections about an Italian case study. <i>Procedia Engineering</i> , 2011, 21, 303-310.	1.2	26
64	Subjective diffuseness of music signals convolved with binaural impulse responses. <i>Journal of Sound and Vibration</i> , 2011, 330, 3526-3537.	2.1	33
65	A Round Robin Test for buildings energy performance in Italy. <i>Energy and Buildings</i> , 2010, 42, 1862-1877.	3.1	50
66	Athanasius Kircher's <i>Phonurgia nova</i> : The Marvelous World of Sound During the 17th Century. <i>Acoustics Today</i> , 2009, 5, 8.	1.0	3
67	Energy performance building evaluation in Mediterranean countries: Comparison between software simulations and operating rating simulation. <i>Energy and Buildings</i> , 2008, 40, 1176-1187.	3.1	125
68	Analysis of buildings' energy consumption by means of exergy method. <i>International Journal of Exergy</i> , 2008, 5, 605.	0.2	31
69	The 'Phonurgia Nova' of Athanasius Kircher: The Marvellous sound world of 17th century. <i>Proceedings of Meetings on Acoustics</i> , 2008, , .	0.3	2
70	Modal analysis and intensity of acoustic radiation of the kettledrum. <i>Journal of the Acoustical Society of America</i> , 2005, 117, 926-933.	0.5	32
71	Measurements and reproduction of spatial sound characteristics of auditoria. <i>Acoustical Science and Technology</i> , 2005, 26, 193-199.	0.3	25
72	Acoustic characterisation of â€œvirtualâ€œ musical instruments: Using MLS technique on ancient violins*. <i>Journal of New Music Research</i> , 1998, 27, 359-379.	0.6	22

#	ARTICLE	IF	CITATIONS
73	Static and dynamic thermal properties of construction components: A comparison in idealized and experimental conditions using lumped parameter models. IOP Conference Series: Materials Science and Engineering, 0, 609, 072042.	0.3	0