Masahiro Toyoda

List of Publications by Year
in descending order

47 papers	519 citations	840776 11 h-index	713466 21 g-index
47 all docs	47 docs citations	47 times ranked	296 citing authors

#	Article	IF	Citations
1	Acoustic Performance of a Metascreen-Based Coating for Maritime Applications. Journal of Vibration and Acoustics, Transactions of the ASME, 2022, 144, .	1.6	7
2	Filter and correction for a hybrid sound field analysis of geometrical and wave-based acoustics. Acoustical Science and Technology, 2021, 42, 170-180.	0.5	1
3	Prediction of bandgap characteristics by sonic crystals. Acoustical Science and Technology, 2020, 41, 815-818.	0.5	0
4	Predicted Absorption Performance of Cylindrical and Rectangular Permeable Membrane Space Sound Absorbers Using the Three-Dimensional Boundary Element Method. Sustainability, 2019, 11, 2714.	3.2	8
5	A Basic Study on a Rectangular Plane Space Sound Absorber Using Permeable Membranes. Sustainability, 2019, 11, 2185.	3.2	11
6	A Pilot Study on the Sound Absorption Characteristics of Chicken Feathers as an Alternative Sustainable Acoustical Material. Sustainability, 2019, 11, 1476.	3.2	17
7	Basic study on relationship between airborne sound transmission and structure-borne sound radiation of a finite elastic plate. Acoustical Science and Technology, 2019, 40, 52-55.	0.5	1
8	Prediction of microperforated panel absorbers using the finite-difference time-domain method. Wave Motion, 2019, 86, 110-124.	2.0	12
9	Frequency-dependent absorption and transmission boundary for the finite-difference time-domain method. Applied Acoustics, 2019, 145, 159-166.	3.3	5
10	Improved stability conditions for impedance boundaries in the finite-difference time-domain method. Acoustical Science and Technology, 2019, 40, 148-150.	0.5	0
11	Prediction of permeable thin absorbers using the finite-difference time-domain method. Journal of the Acoustical Society of America, 2018, 143, 2870-2877.	1.1	6
12	Stability conditions for impedance boundaries in the finite-difference time-domain method. Acoustical Science and Technology, 2018, 39, 359-361.	0.5	1
13	Improved sound absorption performance of three-dimensional MPP space sound absorbers by filling with porous materials. Applied Acoustics, 2017, 116, 311-316.	3.3	25
14	Largeness and shape of sound images captured by sketch-drawing experiments: Effects of bandwidth and center frequency of broadband noise. Acoustical Science and Technology, 2017, 38, 154-160.	0.5	2
15	Relation between frequency bandwidth of broadband noise and largeness of sound image. Acoustical Science and Technology, 2017, 38, 35-37.	0.5	3
16	Effect of Urethane Foam Cushioning on Structure-Borne Sound Transfer by a Slab with Panel Flooring. Archives of Acoustics, 2016, 41, 99-106.	0.8	1
17	Numerical analyses of the sound absorption of cylindrical microperforated panel space absorbers with cores. Journal of the Acoustical Society of America, 2015, 138, 3531-3538.	1.1	9
18	An experimental study on the absorption characteristics of a three-dimensional permeable membrane space sound absorber. Noise Control Engineering Journal, 2015, 63, 300-307.	0.3	7

#	Article	IF	Citations
19	Development of edge-effect suppression barriers. Acoustical Science and Technology, 2014, 35, 28-34.	0.5	4
20	Numerical analyses of the sound absorption of three-dimensional MPP space sound absorbers. Applied Acoustics, 2014, 79, 69-74.	3.3	8
21	Vibration analysis for framed structures using the finite-difference time-domain method based on the Bernoulli-Euler beam theory. Acoustical Science and Technology, 2014, 35, 139-149.	0.5	8
22	Finite-difference time-domain analysis of structure-borne sound using a plate model based on the Kirchhoff-Love plate theory. Acoustical Science and Technology, 2014, 35, 127-138.	0.5	12
23	Finite-Difference Time-Domain Method. , 2014, , 11-51.		0
24	Noise Propagation Simulation. , 2014, , 179-242.		0
25	Numerical analysis of the influence of acoustic resonance in air cavities between windowpanes on sound transmission loss. Applied Acoustics, 2013, 74, 1010-1017.	3.3	5
26	Reduction of rain noise from Ethylene/TetraFluoroEthylene membrane structures. Applied Acoustics, 2013, 74, 1309-1314.	3.3	13
27	Control of radiated sound from open end of duct. Acoustical Science and Technology, 2013, 34, 289-291.	0.5	1
28	Finite-difference time-domain analysis of structure-borne sound using a plate model. Acoustical Science and Technology, 2013, 34, 48-51.	0.5	4
29	Improvement of sound insulation performance of double-panel structures by using damping materials. Noise Control Engineering Journal, 2012, 60, 473-480.	0.3	4
30	Averaged material parameters and boundary conditions for the vibroacoustic finite-difference time-domain method with a nonuniform mesh. Acoustical Science and Technology, 2012, 33, 273-276.	0.5	3
31	Finite-difference time-domain method for heterogeneous orthotropic media with damping. Acoustical Science and Technology, 2012, 33, 77-85.	0.5	7
32	Effect of discretization in thickness direction on eigenfrequency analysis of a circular plate by the finite-difference time-domain method. Acoustical Science and Technology, 2012, 33, 394-397.	0.5	1
33	Improvement of sound insulation performance of multilayer windows by using microperforated panel. Acoustical Science and Technology, 2011, 32, 79-81.	0.5	8
34	Effect of a honeycomb on the sound absorption characteristics of panel-type absorbers. Applied Acoustics, 2011, 72, 943-948.	3.3	55
35	Sound insulation characteristics of multi-layer structures with a microperforated panel. Applied Acoustics, 2011, 72, 849-855.	3.3	37
36	Relationship between Helmholtz-resonance absorption and panel-type absorption in finite flexible microperforated-panel absorbers. Applied Acoustics, 2010, 71, 315-320.	3.3	61

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37	Study on echo suppression effect and coloration due to periodic-type diffusers. Applied Acoustics, 2009, 70, 722-729.	3.3	3
38	Prediction for architectural structure-borne sound by the finite-difference time-domain method. Acoustical Science and Technology, 2009, 30, 265-276.	0.5	32
39	Effects of an air-layer-subdivision technique on the sound transmission through a single plate. Journal of the Acoustical Society of America, 2008, 123, 825-831.	1.1	6
40	Sound transmission through a microperforated-panel structure with subdivided air cavities. Journal of the Acoustical Society of America, 2008, 124, 3594-3603.	1.1	72
41	ANALYSIS OF WAVE PROPAGATION IN BUILDING STRUCTURES AND SOUND RADIATION. Journal of Environmental Engineering (Japan), 2008, 73, 1155-1162.	0.4	4
42	Analysis and experiments of sound transmission through double window panels. Acoustical Science and Technology, 2008, 29, 397-398.	0.5	2
43	Reduction of acoustic radiation by perforated board and honeycomb layer systems. Applied Acoustics, 2007, 68, 71-85.	3.3	27
44	Effects of Air-Layer Subdivision: A New Method of Improving Sound Insulation. Building Acoustics, 2006, 13, 49-59.	1.9	2
45	EFFECTS OF MECHANICAL LINKS AND A VENTILATOR ON SOUND INSULATION BY FLOOR COVERINGS SYSTEM. Journal of Environmental Engineering (Japan), 2006, 71, 7-12.	0.4	2
46	Reduction of acoustic radiation by impedance control with a perforated absorber system. Journal of Sound and Vibration, 2005, 286, 601-614.	3.9	22
47	Effects of Surface Diffusion of Reflectors on the Acoustic Power from the Stage Area. Building Acoustics, 2004, 11, 27-38.	1.9	0