

Kimihiro Sakagami

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

1,393
citations

377584

21
h-index

466096

32
g-index

112
all docs

112
docs citations

112
times ranked

604
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling microperforated panels and permeable membranes for a room acoustic solver with plane-wave enriched FEM. <i>Applied Acoustics</i> , 2022, 185, 108383.	1.7	5
2	A Parallel Dissipation-Free and Dispersion-Optimized Explicit Time-Domain FEM for Large-Scale Room Acoustics Simulation. <i>Buildings</i> , 2022, 12, 105.	1.4	9
3	On the Robustness and Efficiency of the Plane-Wave-Enriched FEM with Variable q-Approach on the 2D Room Acoustics Problem. <i>Acoustics</i> , 2022, 4, 53-73.	0.8	2
4	Pilot study on numerical prediction of sound reduction index of double window system: Comparison of finite element prediction method with measurement. <i>Acoustical Science and Technology</i> , 2022, 43, 32-42.	0.3	2
5	Development of stackable subwavelength sound absorber based on coiled-up system. <i>Applied Acoustics</i> , 2022, 195, 108842.	1.7	6
6	A Basic Study on the Absorption Properties and Their Prediction of Heterogeneous Micro-Perforated Panels: A Case Study of Micro-Perforated Panels with Heterogeneous Hole Size and Perforation Ratio. <i>Acoustics</i> , 2021, 3, 473-485.	0.8	6
7	Dissipation-free and dispersion-optimized explicit time-domain finite element method for room acoustic modeling. <i>Acoustical Science and Technology</i> , 2021, 42, 270-281.	0.3	3
8	Exploration of efficient numerical integration rule for wideband room-acoustics simulations by plane-wave-enriched finite-element method. <i>Acoustical Science and Technology</i> , 2021, 42, 231-240.	0.3	5
9	Efficiency of room acoustic simulations with time-domain FEM including frequency-dependent absorbing boundary conditions: Comparison with frequency-domain FEM. <i>Applied Acoustics</i> , 2021, 182, 108212.	1.7	11
10	Basic study of practical prediction of sound insulation performance of single-glazed window. <i>Acoustical Science and Technology</i> , 2021, 42, 350-353.	0.3	1
11	Implementation experiment of a honeycomb-backed MPP sound absorber in a meeting room. <i>Applied Acoustics</i> , 2020, 157, 107000.	1.7	27
12	A Note on Variation of the Acoustic Environment in a Quiet Residential Area in Kobe (Japan): Seasonal Changes in Noise Levels Including COVID-Related Variation. <i>Urban Science</i> , 2020, 4, 63.	1.1	5
13	Sustainable Acoustic Materials. <i>Sustainability</i> , 2020, 12, 6540.	1.6	11
14	The Effect of Deviation Due to the Manufacturing Accuracy in the Parameters of an MPP on Its Acoustic Properties: Trial Production of MPPs of Different Hole Shapes Using 3D Printing. <i>Acoustics</i> , 2020, 2, 605-616.	0.8	10
15	Potential of Room Acoustic Solver with Plane-Wave Enriched Finite Element Method. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1969.	1.3	16
16	Experimental assessment of sound insulation performance of a double window with porous absorbent materials its cavity perimeter. <i>Applied Acoustics</i> , 2020, 165, 107317.	1.7	8
17	Time Domain Room Acoustic Solver with Fourth-Order Explicit FEM Using Modified Time Integration. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3750.	1.3	7
18	Locally implicit time-domain finite element method for sound field analysis including permeable membrane sound absorbers. <i>Acoustical Science and Technology</i> , 2020, 41, 689-692.	0.3	2

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19	Implementation of a frequency-dependent impedance boundary model into a room acoustic solver with time-domain finite element method. <i>Acoustical Science and Technology</i> , 2020, 41, 819-822.	0.3	4
20	Time-domain finite element formulation of porous sound absorbers based on an equivalent fluid model. <i>Acoustical Science and Technology</i> , 2020, 41, 837-840.	0.3	7
21	A note on the acoustic environment in a usually quiet residential area after the "state of emergency" declaration due to COVID-19 pandemic in Japan was lifted: supplementary survey results in post-emergency situations. <i>Noise Mapping</i> , 2020, 7, 192-198.	0.7	13
22	Application of Paper Folding Technique to Three-Dimensional Space Sound Absorber with Permeable Membrane: Case Studies of Trial Productions. , 2020, 25, 243-247.		4
23	Experimental comparison of absorption characteristics of single-leaf permeable membrane absorbers with different backing air cavity designs. <i>Noise Control Engineering Journal</i> , 2020, 68, 237-245.	0.2	11
24	Diffuse-field sound absorption characteristics of a spherical-microperforated space absorber. <i>Acoustical Science and Technology</i> , 2020, 41, 784-787.	0.3	6
25	Revisiting Acoustics Education Using Mobile Devices to Learn Urban Acoustic Environments: Recent Issues on Current Devices and Applications. <i>Urban Science</i> , 2019, 3, 73.	1.1	8
26	Predicted Absorption Performance of Cylindrical and Rectangular Permeable Membrane Space Sound Absorbers Using the Three-Dimensional Boundary Element Method. <i>Sustainability</i> , 2019, 11, 2714.	1.6	8
27	Note on microperforated panel model using equivalent-fluid-based absorption elements. <i>Acoustical Science and Technology</i> , 2019, 40, 221-224.	0.3	12
28	A Basic Study on a Rectangular Plane Space Sound Absorber Using Permeable Membranes. <i>Sustainability</i> , 2019, 11, 2185.	1.6	11
29	A Pilot Study on the Sound Absorption Characteristics of Chicken Feathers as an Alternative Sustainable Acoustical Material. <i>Sustainability</i> , 2019, 11, 1476.	1.6	17
30	Predicting absorption characteristics of single-leaf permeable membrane absorbers using finite element method in a time domain. <i>Applied Acoustics</i> , 2019, 151, 172-182.	1.7	22
31	Use of Mobile Devices with Multifunctional Sound Level Measurement Applications: Some Experiences for Urban Acoustics Education in Primary and Secondary Schools. <i>Urban Science</i> , 2019, 3, 111.	1.1	7
32	Basic study on relationship between airborne sound transmission and structure-borne sound radiation of a finite elastic plate. <i>Acoustical Science and Technology</i> , 2019, 40, 52-55.	0.3	1
33	Relationship between sound radiations resulting from airborne-sound and point-force excitations of a double-leaf infinite elastic plate. <i>Acoustical Science and Technology</i> , 2019, 40, 325-335.	0.3	0
34	A frequency domain finite element solver for acoustic simulations of 3D rooms with microperforated panel absorbers. <i>Applied Acoustics</i> , 2018, 129, 1-12.	1.7	30
35	Dispersion error reduction of absorption finite elements based on equivalent fluid model. <i>Acoustical Science and Technology</i> , 2018, 39, 362-365.	0.3	4
36	Numerically stable explicit time-domain finite element method for room acoustics simulation using an equivalent impedance model. <i>Noise Control Engineering Journal</i> , 2018, 66, 176-189.	0.2	7

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37	Improved sound absorption performance of three-dimensional MPP space sound absorbers by filling with porous materials. <i>Applied Acoustics</i> , 2017, 116, 311-316.	1.7	25
38	Finite element analysis of absorption characteristics of permeable membrane absorbers array. <i>Acoustical Science and Technology</i> , 2017, 38, 322-325.	0.3	5
39	Relationship between sound radiation from sound-induced and force-excited vibration: Analysis using an infinite elastic plate model. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 453-460.	0.5	3
40	Application of a smartphone for introductory teaching of sound environment: Validation of the precision of the devices and examples of students' work. <i>Acoustical Science and Technology</i> , 2016, 37, 165-172.	0.3	4
41	A time-domain finite element model of permeable membrane absorbers. <i>Acoustical Science and Technology</i> , 2016, 37, 46-49.	0.3	4
42	Use of smartphones for introductory acoustics education. <i>Proceedings of Meetings on Acoustics</i> , 2016, , .	0.3	1
43	An explicit time-domain finite element method for room acoustics simulations: Comparison of the performance with implicit methods. <i>Applied Acoustics</i> , 2016, 104, 76-84.	1.7	18
44	Numerical analyses of the sound absorption of cylindrical microperforated panel space absorbers with cores. <i>Journal of the Acoustical Society of America</i> , 2015, 138, 3531-3538.	0.5	9
45	Applicability of an explicit time-domain finite-element method on room acoustics simulation. <i>Acoustical Science and Technology</i> , 2015, 36, 377-380.	0.3	2
46	Room acoustics simulation with single-leaf microperforated panel absorber using two-dimensional finite-element method. <i>Acoustical Science and Technology</i> , 2015, 36, 358-361.	0.3	6
47	A finite-element formulation for room acoustics simulation with microperforated panel sound absorbing structures: Verification with electro-acoustical equivalent circuit theory and wave theory. <i>Applied Acoustics</i> , 2015, 95, 20-26.	1.7	16
48	On the Relationship between the Normal Incidence Airborne Sound-excited and the Structurally-excited Sound Radiation from a Wall: A Theoretical Trial with Simplified Models. <i>Building Acoustics</i> , 2015, 22, 109-122.	1.1	1
49	An experimental study on the absorption characteristics of a three-dimensional permeable membrane space sound absorber. <i>Noise Control Engineering Journal</i> , 2015, 63, 300-307.	0.2	7
50	A theoretical study on triple-leaf microperforated panel absorbers. <i>Acoustical Science and Technology</i> , 2014, 35, 122-124.	0.3	0
51	Transmission of a spherical sound wave through a single-leaf wall: Mass law for spherical wave incidence. <i>Applied Acoustics</i> , 2014, 75, 67-71.	1.7	12
52	Sound absorption characteristics of a double-leaf structure with an MPP and a permeable membrane. <i>Applied Acoustics</i> , 2014, 76, 28-34.	1.7	33
53	A theoretical study on the effect of a permeable membrane in the air cavity of a double-leaf microperforated panel space sound absorber. <i>Applied Acoustics</i> , 2014, 79, 104-109.	1.7	28
54	Numerical analyses of the sound absorption of three-dimensional MPP space sound absorbers. <i>Applied Acoustics</i> , 2014, 79, 69-74.	1.7	8

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55	Experimental identification of force radiation modes. <i>Noise Control Engineering Journal</i> , 2013, 61, 81-86.	0.2	0
56	Experimental identification of force radiation modes. <i>Noise Control Engineering Journal</i> , 2013, 61, 81-86.	0.2	0
57	An experimental study of a cylindrical microperforated panel sound absorber with core. <i>Noise Control Engineering Journal</i> , 2013, 61, 590-596.	0.2	3
58	A case study of introductory teaching method for architectural/environmental acoustics using a smartphone. <i>Acoustical Science and Technology</i> , 2013, 34, 209-211.	0.3	5
59	An experimental study on a cylindrical microperforated panel space sound absorber. <i>Noise Control Engineering Journal</i> , 2012, 60, 22-28.	0.2	16
60	Reduction of sound radiation by using extended radiation modes: Effects of added mass. <i>Acoustical Science and Technology</i> , 2012, 33, 56-58.	0.3	0
61	Absorption characteristics of a space absorber using a microperforated panel and a permeable membrane. <i>Acoustical Science and Technology</i> , 2011, 32, 47-49.	0.3	14
62	Excess sound absorption at normal incidence by two microperforated panel absorbers with different impedance. <i>Acoustical Science and Technology</i> , 2011, 32, 194-200.	0.3	38
63	Effect of a honeycomb on the sound absorption characteristics of panel-type absorbers. <i>Applied Acoustics</i> , 2011, 72, 943-948.	1.7	55
64	Reduction of sound radiation by using force radiation modes. <i>Applied Acoustics</i> , 2011, 72, 420-427.	1.7	9
65	Effect of a honeycomb on the absorption characteristics of double-leaf microperforated panel (MPP) space sound absorbers. <i>Noise Control Engineering Journal</i> , 2011, 59, 363.	0.2	11
66	Sound absorption of a double-leaf micro-perforated panel with an air-back cavity and a rigid-back wall: Detailed analysis with a Helmholtz-Kirchhoff integral formulation. <i>Applied Acoustics</i> , 2010, 71, 411-417.	1.7	51
67	Sound absorption characteristics of a honeycomb-backed microperforated panel absorber: Revised theory and experimental validation. <i>Noise Control Engineering Journal</i> , 2010, 58, 157.	0.2	25
68	Pilot study on wideband sound absorber obtained by combination of two different microperforated panel (MPP) absorbers. <i>Acoustical Science and Technology</i> , 2009, 30, 154-156.	0.3	57
69	A note on the acoustic properties of a double-leaf permeable membrane. <i>Acoustical Science and Technology</i> , 2009, 30, 390-392.	0.3	3
70	Numerical study on reduction of the elevated structure noise by surface absorption on plate girders. <i>Applied Acoustics</i> , 2009, 70, 1143-1147.	1.7	3
71	Double-leaf microperforated panel space absorbers: A revised theory and detailed analysis. <i>Applied Acoustics</i> , 2009, 70, 703-709.	1.7	90
72	A note on the relationship between the sound absorption by microperforated panels and panel/membrane-type absorbers. <i>Applied Acoustics</i> , 2009, 70, 1131-1136.	1.7	47

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73	A pilot study on improving the absorptivity of a thick microperforated panel absorber. Applied Acoustics, 2008, 69, 179-182.	1.7	37
74	A basic study on the sound field analysis of periodic structures by boundary integral equation method. Applied Acoustics, 2006, 67, 982-995.	1.7	0
75	A numerical study of double-leaf microperforated panel absorbers. Applied Acoustics, 2006, 67, 609-619.	1.7	97
76	A note on the effect of vibration of a microperforated panel on its sound absorption characteristics. Acoustical Science and Technology, 2005, 26, 204-207.	0.3	40
77	Prediction of the reverberation absorption coefficient of finite-size membrane absorbers. Applied Acoustics, 2005, 66, 653-668.	1.7	18
78	Special issue on Room Acoustics in honour of RADS 2004. Acoustical Science and Technology, 2005, 26, 89-89.	0.3	0
79	ANALYSIS OF STRUCTURE BORNE SOUND OF VIADUCT BASED ON PLATE VIBRATION THEORY. Doboku Gakkai Ronbunshu, 2005, 2005, 787_105-787_115.	0.2	0
80	Effect of acoustical damping with a porous absorptive layer in the cavity to reduce the structure-borne sound radiation from a double-leaf structure. Applied Acoustics, 2003, 64, 365-384.	1.7	15
81	Extending the sound impulse response of room using extrapolation. IEEE Transactions on Speech and Audio Processing, 2002, 10, 167-172.	2.0	10
82	Acoustic properties of double-leaf membranes with a permeable leaf on sound incidence side. Applied Acoustics, 2002, 63, 911-926.	1.7	13
83	Sound radiation from a double-leaf elastic plate with a point force excitation: effect of an interior panel on the structure-borne sound radiation. Applied Acoustics, 2002, 63, 737-757.	1.7	28
84	Special section on acoustic imaging. Acoustical Science and Technology, 2002, 23, 28.	0.3	0
85	The role of reflections from behind the listener in spatial impression. Applied Acoustics, 2001, 62, 109-124.	1.7	22
86	Sound radiation from an un baffled elastic plate strip of infinite length. Applied Acoustics, 2000, 61, 45-63.	1.7	15
87	Sound field radiated by an infinitely long elastic plate strip in contact with a vertical reflecting surface. Applied Acoustics, 2000, 61, 413-425.	1.7	2
88	Absorption characteristics of a double-leaf membrane with a permeable leaf and an absorptive layer in its cavity.. Journal of the Acoustical Society of Japan (E), 2000, 21, 107-109.	0.1	1
89	Effect of an air-back cavity on the sound field reflected by a vibrating plate. Applied Acoustics, 1999, 56, 241-256.	1.7	13
90	Acoustic properties of a cavity backed stage floor: A theoretical model. Applied Acoustics, 1999, 57, 17-27.	1.7	7

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91	A Basic Study on Acoustic Properties of Double-leaf Membranes. Applied Acoustics, 1998, 54, 239-254.	1.7	27
92	Sound radiation from a baffled elastic plate strip of infinite length with various concentrated excitation forces. Applied Acoustics, 1998, 55, 181-202.	1.7	8
93	Reflection of a spherical sound wave by an infinite elastic plate driven to vibration by a point force. Applied Acoustics, 1998, 55, 253-273.	1.7	6
94	Detailed analysis of the acoustic properties of a permeable membrane. Applied Acoustics, 1998, 54, 93-111.	1.7	39
95	Sound absorption of a cavity-backed membrane: A step towards design method for membrane-type absorbers. Applied Acoustics, 1996, 49, 237-247.	1.7	48
96	Reflection of a spherical sound wave by an infinite elastic plate.. Journal of the Acoustical Society of Japan (E), 1995, 16, 71-76.	0.1	3
97	Acoustic reflection by an elastic plate with infinite extent.. Journal of the Acoustical Society of Japan (E), 1993, 14, 85-90.	0.1	5
98	Basic considerations on the practical method for predicting sound insulation performance of a single-leaf window. UCL Open Environment, 0, 2, .	0.0	2
99	Application of transparent microperforated panels to acrylic partitions for desktop use: A case study by prototyping. UCL Open Environment, 0, 2, .	0.0	0
100	How did the "state of emergency" declaration in Japan due to the COVID-19 pandemic affect the acoustic environment in a rather quiet residential area?. UCL Open Environment, 0, 2, .	0.0	9
101	Some considerations on the use of space sound absorbers with next-generation materials reflecting COVID situations in Japan: additional sound absorption for post-pandemic challenges in indoor acoustic environments. UCL Open Environment, 0, 2, .	0.0	4