Brian Hamilton

List of Publications by Year
in descending order

19 papers	**203** citations	1163117 **8** h-index	1125743 **13** g-index
19 all docs	**19** docs citations	**19** times ranked	**109** citing authors

#	ARTICLE	IF	CITATIONS
1	Feasibility of a finite-difference time-domain model in large-scale acoustic simulations. Journal of the Acoustical Society of America, 2022, 152, 330-341.	1.1	5
2	A Trial Acoustic Improvement in a Lecture Hall with MPP Sound Absorbers and FDTD Acoustic Simulations. Applied Sciences (Switzerland), 2021, 11, 2445.	2.5	13
3	Scattering Evaluation of Equivalent Surface Impedances of Acoustic Metamaterials in Large FDTD Volumes Using RLC Circuit Modelling. Applied Sciences (Switzerland), 2021, 11, 8084.	2.5	0
4	Rediscovering the Acoustics of a XII-Century Rotunda through FDTD Simulation. , 2021, , .		2
5	Adding air attenuation to simulated room impulse responses: A modal approach. , 2021, , .		1
6	Air Absorption Filtering Method Based on Approximate Green's Function for Stokes' Equation. , 2021, , .		1
7	Computer Modeling of Barrel-Vaulted Sanctuary Exhibiting Flutter Echo with Comparison to Measurements. Acoustics, 2020, 2, 87-109.	1.4	6
8	Passive volumetric time domain simulation for room acoustics applications. Journal of the Acoustical Society of America, 2019, 145, 2613-2624.	1.1	9
9	Local Time-Domain Spherical Harmonic Spatial Encoding for Wave-Based Acoustic Simulation. IEEE Signal Processing Letters, 2019, 26, 617-621.	3.6	11
10	Incorporating source directivity in wave-based virtual acoustics: Time-domain models and fitting to measured data. Journal of the Acoustical Society of America, 2019, 146, 2692-2703.	1.1	18
11	Directional Sources in Wave-Based Acoustic Simulation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 415-428.	5.8	13
12	Higher-order accurate two-step finite difference schemes for the many-dimensional wave equation. Journal of Computational Physics, 2018, 367, 134-165.	3.8	18
13	Directional source modeling in wave-based room acoustics simulation. , 2017, , .		3
14	FDTD Methods for 3-D Room Acoustics Simulation With High-Order Accuracy in Space and Time. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 2112-2124.	5.8	43
15	Wave-Based Room Acoustics Simulation: Explicit/Implicit Finite Volume Modeling of Viscothermal Losses and Frequency-Dependent Boundaries. AES: Journal of the Audio Engineering Society, 2017, 65, 78-89.	1.0	8
16	Optimised 25-point finite difference schemes for the three-dimensional wave equation. Proceedings of Meetings on Acoustics, 2016, , .	0.3	3
17	Passive time-domain numerical designs for room acoustics simulation. Proceedings of Meetings on Acoustics, 2016, , .	0.3	0
18	Finite Volume Time Domain Room Acoustics Simulation under General Impedance Boundary Conditions. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 161-173.	5.8	48

#	Article	IF	Citations
19	Sampling and Reconstruction on a Diamond Grid and the Tetrahedral Digital Waveguide Mesh. IEEE Signal Processing Letters, 2013, 20, 925-928.	3.6	1