

Marc Arnela

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

341
citations

933447

10
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839539

18
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26
all docs

26
docs citations

26
times ranked

160
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling chaotic oscillations in a symmetric two-mass model of the vocal folds. <i>Chaos, Solitons and Fractals</i> , 2022, 159, 112188.	5.1	4
2	Efficient 3D Acoustic Simulation of the Vocal Tract by Combining the Multimodal Method and Finite Elements. <i>IEEE Access</i> , 2022, 10, 69922-69938.	4.2	6
3	Tuned two-dimensional vocal tracts with piriform fossae for the finite element simulation of vowels. <i>Journal of Sound and Vibration</i> , 2022, 537, 117168.	3.9	1
4	Simulation of vowel utterances using a 3D biomechanical-acoustic model. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021, 37, e3407.	2.1	6
5	Resonance tuning in vocal tract acoustics from modal perturbation analysis instead of nonlinear radiation pressure. <i>Journal of Sound and Vibration</i> , 2021, 493, 115826.	3.9	2
6	Characterization of an omnidirectional parametric loudspeaker with exponential sine sweeps. <i>Applied Acoustics</i> , 2021, 182, 108268.	3.3	4
7	Finite element generation of sibilants /s/ and /z/ using random distributions of Kirchhoff vortices. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020, 36, e3302.	2.1	8
8	MRI-Based Vocal Tract Representations for the Three-Dimensional Finite Element Synthesis of Diphthongs. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2019, 27, 2173-2182.	5.8	13
9	Glottal Source Contribution to Higher Order Modes in the Finite Element Synthesis of Vowels. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4535.	2.5	6
10	Reconstruction of vocal tract geometries from biomechanical simulations. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019, 35, e3159.	2.1	5
11	Construction of an Omnidirectional Parametric Loudspeaker Consisting in a Spherical Distribution of Ultrasound Transducers. <i>Sensors</i> , 2018, 18, 4317.	3.8	15
12	Transfer matrices to characterize linear and quadratic acoustic black holes in duct terminations. <i>Journal of Sound and Vibration</i> , 2017, 395, 65-79.	3.9	75
13	Finite Element Synthesis of Diphthongs Using Tuned Two-Dimensional Vocal Tracts. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2017, 25, 2013-2023.	5.8	9
14	Influence of lips on the production of vowels based on finite element simulations and experiments. <i>Journal of the Acoustical Society of America</i> , 2016, 139, 2852-2859.	1.1	21
15	A Stabilized Finite Element Method for the Mixed Wave Equation in an ALE Framework With Application to Diphthong Production. <i>Acta Acustica United With Acustica</i> , 2016, 102, 94-106.	0.8	18
16	Influence of vocal tract geometry simplifications on the numerical simulation of vowel sounds. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 1707-1718.	1.1	33
17	Effects of higher order propagation modes in vocal tract like geometries. <i>Journal of the Acoustical Society of America</i> , 2015, 137, 832-843.	1.1	38
18	Two-dimensional vocal tracts with three-dimensional behavior in the numerical generation of vowels. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 369-379.	1.1	14

#	ARTICLE	IF	CITATIONS
19	Finite element computation of elliptical vocal tract impedances using the two-microphone transfer function method. Journal of the Acoustical Society of America, 2013, 133, 4197-4209.	1.1	23
20	Effects of head geometry simplifications on acoustic radiation of vowel sounds based on time-domain finite-element simulations. Journal of the Acoustical Society of America, 2013, 134, 2946-2954.	1.1	28
21	Influence of tense, modal and lax phonation on the three-dimensional finite element synthesis of vowel [A]. , 0, , .		1
22	Using a Biomechanical Model and Articulatory Data for the Numerical Production of Vowels. , 0, , .		3
23	A Unified Numerical Simulation of Vowel Production That Comprises Phonation and the Emitted Sound. , 0, , .		2
24	Synthesis of VV Utterances from Muscle Activation to Sound with a 3D Model. , 0, , .		4
25	A Semi-Polar Grid Strategy for the Three-Dimensional Finite Element Simulation of Vowel-Vowel Sequences. , 0, , .		2