Amanda Stark

List of Publications by Citations

54 papers	5,187 citations	32 h-index	66 g-index
66 ext. papers	5,760 ext. citations	2.2 avg, IF	6.03 L-index

#	Paper	IF	Citations
54	The physics of small-amplitude oscillation of the vocal folds. *Journal of the Acoustical Society of America*, **1988**, 83, 1536-52	2.2	633
53	Physiologic and acoustic differences between male and female voices. *Journal of the Acoustical Society of America*, **1989**, 85, 1699-707	2.2	393
52	Nonlinear source-filter coupling in phonation: theory. *Journal of the Acoustical Society of America*, **2008**, 123, 2733-49	2.2	286
51	Vocal tract area functions from magnetic resonance imaging. *Journal of the Acoustical Society of America*, **1996**, 100, 537-54	2.2	275
50	On the relation between subglottal pressure and fundamental frequency in phonation. *Journal of the Acoustical Society of America*, **1989**, 85, 901-6	2.2	270
49	Voice training and therapy with a semi-occluded vocal tract: rationale and scientific underpinnings. *Journal of Speech, Language, and Hearing Research*, **2006**, 49, 448-59	2.8	266
48	Voice simulation with a body-cover model of the vocal folds. *Journal of the Acoustical Society of America*, **1995**, 97, 1249-60	2.2	260
47	Vocal fold proteoglycans and their influence on biomechanics. *Laryngoscope*, **1999**, 109, 845-54	3.6	224
46	Acoustic interactions of the voice source with the lower vocal tract. *Journal of the Acoustical Society of America*, **1997**, 101, 2234-43	2.2	220
45	A finite-element model of vocal-fold vibration. *Journal of the Acoustical Society of America*, **2000**, 108, 3003-12	2.2	199
44	Viscoelastic shear properties of human vocal fold mucosa: measurement methodology and empirical results. *Journal of the Acoustical Society of America*, **1999**, 106, 2008-21	2.2	193
43	Viscosities of implantable biomaterials in vocal fold augmentation surgery. *Laryngoscope*, **1998**, 108, 725-31	3.6	153
42	Acoustic impedance of an artificially lengthened and constricted vocal tract. *Journal of Voice*, **2000**, 14, 455-69	1.9	149
41	A methodological study of hemilaryngeal phonation. *Laryngoscope*, **1993**, 103, 872-82	3.6	119
40	Elastic models of vocal fold tissues. *Journal of the Acoustical Society of America*, **1991**, 90, 1326-31	2.2	113
39	Phonation threshold pressure in a physical model of the vocal fold mucosa. *Journal of the Acoustical Society of America*, **1995**, 97, 3080-4	2.2	111
38	Hyaluronic acid (with fibronectin) as a bioimplant for the vocal fold mucosa. *Laryngoscope*, **1999**, 109, 1142-9	3.6	101

37	Design and validation of a bioreactor for engineering vocal fold tissues under combined tensile and vibrational stresses. *Journal of Biomechanics*, **2004**, 37, 1521-9	2.9	90
36	Rules for controlling low-dimensional vocal fold models with muscle activation. *Journal of the Acoustical Society of America*, **2002**, 112, 1064-76	2.2	89
35	Further studies of phonation threshold pressure in a physical model of the vocal fold mucosa. *Journal of the Acoustical Society of America*, **1997**, 101, 3722-7	2.2	87
34	Normal modes in a continuum model of vocal fold tissues. *Journal of the Acoustical Society of America*, **1996**, 100, 3345-54	2.2	80
33	Normal vibration frequencies of the vocal ligament. *Journal of the Acoustical Society of America*, **2004**, 115, 2264-9	2.2	72
32	Regulating glottal airflow in phonation: application of the maximum power transfer theorem to a low dimensional phonation model. *Journal of the Acoustical Society of America*, **2002**, 111, 367-76	2.2	71
31	Can vocal economy in phonation be increased with an artificially lengthened vocal tract? A computer modeling study. *Logopedics Phoniatrics Vocology*, **2007**, 32, 147-56	1.3	70
30	A Randomized Controlled Trial of Two Semi-Occluded Vocal Tract Voice Therapy Protocols. *Journal of Speech, Language, and Hearing Research*, **2015**, 58, 535-49	2.8	64
29	Viscoelastic shear properties of human vocal fold mucosa: theoretical characterization based on constitutive modeling. *Journal of the Acoustical Society of America*, **2000**, 107, 565-80	2.2	63
28	Observation of perturbations in a lumped-element model of the vocal folds with application to some pathological cases. *Journal of the Acoustical Society of America*, **1991**, 89, 383-94	2.2	62
27	A theoretical study of F0-F1 interaction with application to resonant speaking and singing voice. *Journal of Voice*, **2004**, 18, 292-8	1.9	53
26	Toward occupational safety criteria for vocalization. *Logopedics Phoniatrics Vocology*, **1999**, 24, 49-54	1.3	37
25	Viscoelastic modeling of canine vocalis muscle in relaxation. *Journal of the Acoustical Society of America*, **1985**, 78, 1939-43	2.2	35
24	Methodology for rheological testing of engineered biomaterials at low audio frequencies. *Journal of the Acoustical Society of America*, **2004**, 115, 392-401	2.2	32
23	A reflex resonance model of vocal vibrato. *Journal of the Acoustical Society of America*, **2002**, 111, 2272-82	2.2	32
22	A two-dimensional biomechanical model of vocal fold posturing. *Journal of the Acoustical Society of America*, **2007**, 121, 2254-60	2.2	29
21	Current topics in voice production mechanisms. *Acta Oto-Laryngologica*, **1993**, 113, 421-7	1.6	27
20	Characterization of Flow-resistant Tubes Used for Semi-occluded Vocal Tract Voice Training and Therapy. *Journal of Voice*, **2017**, 31, 113.e1-113.e8	1.9	26

19	Acoustics of the tenor high voice. *Journal of the Acoustical Society of America*, **1994**, 95, 1133-42	2.2	24
18	The human instrument. *Scientific American*, **2008**, 298, 94-101	0.5	23
17	The evolution of the syrinx: An acoustic theory. *PLoS Biology*, **2019**, 17, e2006507	9.7	20
16	Source and filter adjustments affecting the perception of the vocal qualities twang and yawn. *Logopedics Phoniatrics Vocology*, **2003**, 28, 147-55	1.3	18
15	. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2016**, 24, 2507-2515	3.6	13
14	Benchmarks for time-domain simulation of sound propagation in soft-walled airways: steady configurations. *Journal of the Acoustical Society of America*, **2014**, 136, 3249	2.2	13
13	Laryngeal muscle activity in giggle: a damped oscillation model. *Journal of Voice*, **2008**, 22, 644-8	1.9	13
12	What is vocology?. *Logopedics Phoniatrics Vocology*, **1996**, 21, 5-6	1.3	11
11	Radiation efficiency for long-range vocal communication in mammals and birds. *Journal of the Acoustical Society of America*, **2018**, 143, 2813	2.2	10
10	A Formant Range Profile for Singers. *Journal of Voice*, **2017**, 31, 382.e9-382.e13	1.9	7
9	Feasibility of measurement of a voice range profile with a semi-occluded vocal tract. *Logopedics Phoniatrics Vocology*, **2011**, 36, 32-9	1.3	6
8	Inertagrams for a Variety of Semi-Occluded Vocal Tracts. *Journal of Speech, Language, and Hearing Research*, **2020**, 63, 2589-2596	2.8	6
7	WHERE HAS ALL THE POWER GONE? ENERGY PRODUCTION AND LOSS IN VOCALIZATION. *Speech Communication*, **2018**, 101, 26-33	2.8	5
6	Vocal intensity in falsetto phonation of a countertenor: an analysis by synthesis approach. *Journal of the Acoustical Society of America*, **2001**, 110, 1667-76	2.2	4
5	Vocalization with semi-occluded airways is favorable for optimizing sound production. *PLoS Computational Biology*, **2021**, 17, e1008744	5	4
4	The Effect of Single Harmonic Tuning on Vocal Loudness. *Journal of Voice*, **2020**,	1.9	3
3	Regulation of laryngeal resistance and maximum power transfer with semi-occluded airway vocalization. *Journal of the Acoustical Society of America*, **2021**, 149, 4106	2.2	3
2	The Rationale and History of Vocology. *Voice and Speech Review*, **2019**, 13, 106-111	0.4	3

1	Simulation of Vocal Loudness Regulation with Lung Pressure, Vocal Fold Adduction, and Source-Airway Interaction. *Journal of Voice*, **2021**,	1.9	2