Christopher A Shera

List of Publications by Year
in descending order

99	4,842	109321 35	98798 67
papers	citations	h-index	g-index

102	102	102	1162
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evoked otoacoustic emissions arise by two fundamentally different mechanisms: A taxonomy for mammalian OAEs. Journal of the Acoustical Society of America, 1999, 105, 782-798.	1.1	622
2	Revised estimates of human cochlear tuning from otoacoustic and behavioral measurements. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3318-3323.	7.1	420
3	The origin of periodicity in the spectrum of evoked otoacoustic emissions. Journal of the Acoustical Society of America, 1995, 98, 2018-2047.	1.1	371
4	Otoacoustic Estimation of Cochlear Tuning: Validation in the Chinchilla. JARO - Journal of the Association for Research in Otolaryngology, 2010, 11, 343-365.	1.8	182
5	Stimulus-frequency-emission group delay: A test of coherent reflection filtering and a window on cochlear tuning. Journal of the Acoustical Society of America, 2003, 113, 2762-2772.	1.1	181
6	Mammalian spontaneous otoacoustic emissions are amplitude-stabilized cochlear standing waves. Journal of the Acoustical Society of America, 2003, 114, 244-262.	1.1	178
7	Distortion-product source unmixing: A test of the two-mechanism model for DPOAE generation. Journal of the Acoustical Society of America, 2001, 109, 622-637.	1.1	171
8	Mechanisms of Mammalian Otoacoustic Emission and their Implications for the Clinical Utility of Otoacoustic Emissions. Ear and Hearing, 2004, 25, 86-97.	2.1	131
9	Frequency selectivity in Old-World monkeys corroborates sharp cochlear tuning in humans. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17516-17520.	7.1	116
10	Near equivalence of human click-evoked and stimulus-frequency otoacoustic emissions. Journal of the Acoustical Society of America, 2007, 121, 2097-2110.	1.1	100
11	Intensity-invariance of fine time structure in basilar-membrane click responses: Implications for cochlear mechanics. Journal of the Acoustical Society of America, 2001, 110, 332-348.	1.1	94
12	Noninvasive measurement of the cochlear travelingâ€wave ratio. Journal of the Acoustical Society of America, 1993, 93, 3333-3352.	1.1	87
13	Laser amplification with a twist: Traveling-wave propagation and gain functions from throughout the cochlea. Journal of the Acoustical Society of America, 2007, 122, 2738-2758.	1.1	86
14	Coherent reflection in a two-dimensional cochlea: Short-wave versus long-wave scattering in the generation of reflection-source otoacoustic emissions. Journal of the Acoustical Society of America, 2005, 118, 287-313.	1.1	83
15	Nonlinear time-domain cochlear model for transient stimulation and human otoacoustic emission. Journal of the Acoustical Society of America, 2012, 132, 3842-3848.	1.1	73
16	Increased contralateral suppression of otoacoustic emissions indicates a hyperresponsive medial olivocochlear system in humans with tinnitus and hyperacusis. Journal of Neurophysiology, 2014, 112, 3197-3208.	1.8	65
17	Comparing stimulus-frequency otoacoustic emissions measured by compression, suppression, and spectral smoothing. Journal of the Acoustical Society of America, 2007, 122, 3562-3575.	1.1	59
18	Measuring stimulus-frequency otoacoustic emissions using swept tones. Journal of the Acoustical Society of America, 2013, 134, 356-368.	1.1	58

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19	Interrelations among distortion-product phase-gradient delays: Their connection to scaling symmetry and its breaking. Journal of the Acoustical Society of America, 2000, 108, 2933-2948.	1.1	57
20	Reflection of retrograde waves within the cochlea and at the stapes. Journal of the Acoustical Society of America, 1991, 89, 1290-1305.	1.1	56
21	Frequency glides in click responses of the basilar membrane and auditory nerve: Their scaling behavior and origin in traveling-wave dispersion. Journal of the Acoustical Society of America, 2001, 109, 2023-2034.	1.1	56
22	Testing coherent reflection in chinchilla: Auditory-nerve responses predict stimulus-frequency emissions. Journal of the Acoustical Society of America, 2008, 124, 381-395.	1.1	55
23	Otoacoustic-emission-based medial-olivocochlear reflex assays for humans. Journal of the Acoustical Society of America, 2014, 136, 2697-2713.	1.1	55
24	Mammalian behavior and physiology converge to confirm sharper cochlear tuning in humans. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11322-11326.	7.1	54
25	The eardrums move when the eyes move: A multisensory effect on the mechanics of hearing. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1309-E1318.	7.1	53
26	Cochlear outer hair cell electromotility enhances organ of Corti motion on a cycle-by-cycle basis at high frequencies in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	53
27	Obtaining reliable phase-gradient delays from otoacoustic emission data. Journal of the Acoustical Society of America, 2012, 132, 927-943.	1.1	51
28	Compensating for ear-canal acoustics when measuring otoacoustic emissions. Journal of the Acoustical Society of America, 2017, 141, 515-531.	1.1	51
29	The origin of SFOAE microstructure in the guinea pig. Hearing Research, 2003, 183, 7-17.	2.0	48
30	Posture-Induced Changes in Distortion-Product Otoacoustic Emissions and the Potential for Noninvasive Monitoring of Changes in Intracranial Pressure. Neurocritical Care, 2006, 4, 251-257.	2.4	48
31	Cochlear traveling-wave amplification, suppression, and beamforming probed using noninvasive calibration of intracochlear distortion sources. Journal of the Acoustical Society of America, 2007, 121, 1003-1016.	1.1	48
32	A symmetry suppresses the cochlear catastrophe. Journal of the Acoustical Society of America, 1991, 89, 1276-1289.	1.1	44
33	Middleâ€ear phenomenology: The view from the three windows. Journal of the Acoustical Society of America, 1992, 92, 1356-1370.	1.1	42
34	Functional modeling of the human auditory brainstem response to broadband stimulation. Journal of the Acoustical Society of America, 2015, 138, 1637-1659.	1.1	42
35	Small Tumor Virus Genomes Are Integrated near Nuclear Matrix Attachment Regions in Transformed Cells. Journal of Virology, 2001, 75, 12339-12346.	3.4	37
36	Simultaneous measurement of middle-ear input impedance and forward/reverse transmission in cat. Journal of the Acoustical Society of America, 2004, 116, 2187-2198.	1.1	35

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37	Allenâ€“Fahey and related experiments support the predominance of cochlear slow-wave otoacoustic emissions. Journal of the Acoustical Society of America, 2007, 121, 1564-1575.	1.1	35
38	An empirical bound on the compressibility of the cochlea. Journal of the Acoustical Society of America, 1992, 92, 1382-1388.	1.1	34
39	Posture systematically alters ear-canal reflectance and DPOAE properties. Hearing Research, 2010, 263, 43-51.	2.0	32
40	On the spatial distribution of the reflection sources of different latency components of otoacoustic emissions. Journal of the Acoustical Society of America, 2015, 137, 768-776.	1.1	32
41	Phenomenological characterization of eardrum transduction. Journal of the Acoustical Society of America, 1991, 90, 253-262.	1.1	31
42	Cochlear reflectivity in transmission-line models and otoacoustic emission characteristic time delays. Journal of the Acoustical Society of America, 2007, 122, 3554-3561.	1.1	31
43	Coherent reflection without traveling waves: On the origin of long-latency otoacoustic emissions in lizards. Journal of the Acoustical Society of America, 2010, 127, 2398-2409.	1.1	31
44	Basilar-membrane interference patterns from multiple internal reflection of cochlear traveling waves. Journal of the Acoustical Society of America, 2013, 133, 2224-2239.	1.1	31
45	Optimizing swept-tone protocols for recording distortion-product otoacoustic emissions in adults and newborns. Journal of the Acoustical Society of America, 2015, 138, 3785-3799.	1.1	31
46	Analyzing reverse middleâ€ear transmission: Noninvasive Gedankenexperiments. Journal of the Acoustical Society of America, 1992, 92, 1371-1381.	1.1	30
47	Middle Ear Pathology Can Affect the Ear-Canal Sound Pressure Generated by Audiologic Earphones. Ear and Hearing, 2000, 21, 265-274.	2.1	30
48	Mechanisms of Mammalian Otoacoustic Emission. Springer Handbook of Auditory Research, 2008, , 305-342.	0.7	29
49	Reflection- and Distortion-Source Otoacoustic Emissions: Evidence for Increased Irregularity in the Human Cochlea During Aging. JARO - Journal of the Association for Research in Otolaryngology, 2018, 19, 493-510.	1.8	28
50	Acoustic mechanisms that determine the ear-canal sound pressures generated by earphones. Journal of the Acoustical Society of America, 2000, 107, 1548-1565.	1.1	25
51	Wave propagation patterns in a â€œclassicalâ€• three-dimensional model of the cochlea. Journal of the Acoustical Society of America, 2007, 121, 352-362.	1.1	25
52	The cochlear ear horn: geometric origin of tonotopic variations in auditory signal processing. Scientific Reports, 2020, 10, 20528.	3.3	25
53	Do Forward- and Backward-Traveling Waves Occur Within the Cochlea? Countering the Critique of Nobili et al.. JARO - Journal of the Association for Research in Otolaryngology, 2004, 5, 349-359.	1.8	24
54	Distortion products and backward-traveling waves in nonlinear active models of the cochlea. Journal of the Acoustical Society of America, 2011, 129, 3141-3152.	1.1	22

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55	Nonlinear cochlear mechanics without direct vibration-amplification feedback. Physical Review Research, 2020, 2, .	3.6	21
56	Delays and Growth Rates of Multiple TEOAE Components. AIP Conference Proceedings, 2011, , .	0.4	18
57	The Spiral Staircase: Tonotopic Microstructure and Cochlear Tuning. Journal of Neuroscience, 2015, 35, 4683-4690.	3.6	18
58	Swept-tone stimulus-frequency otoacoustic emissions: Normative data and methodological considerations. Journal of the Acoustical Society of America, 2018, 143, 181-192.	1.1	17
59	Morphological Immaturity of the Neonatal Organ of Corti and Associated Structures in Humans. JARO - Journal of the Association for Research in Otolaryngology, 2019, 20, 461-474.	1.8	17
60	Distortion-product otoacoustic emission reflection-component delays and cochlear tuning: Estimates from across the human lifespan. Journal of the Acoustical Society of America, 2014, 135, 1950-1958.	1.1	14
61	Cochlear Frequency Tuning and Otoacoustic Emissions. Cold Spring Harbor Perspectives in Medicine, 2019, 9, a033498.	6.2	14
62	A comparison of ear-canal-reflectance measurement methods in an ear simulator. Journal of the Acoustical Society of America, 2019, 146, 1350-1361.	1.1	14
63	Characterizing spontaneous otoacoustic emissions across the human lifespan. Journal of the Acoustical Society of America, 2017, 141, 1874-1886.	1.1	13
64	Probing cochlear tuning and tonotopy in the tiger using otoacoustic emissions. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2012, 198, 617-624.	1.6	12
65	Dynamics of cochlear nonlinearity: Automatic gain control or instantaneous damping?. Journal of the Acoustical Society of America, 2017, 142, 3510-3519.	1.1	12
66	Reflectance of acoustic horns and solution of the inverse problem. Journal of the Acoustical Society of America, 2012, 131, 1863-1873.	1.1	11
67	Constraints imposed by zero-crossing invariance on cochlear models with two mechanical degrees of freedom. Journal of the Acoustical Society of America, 2019, 146, 1685-1695.	1.1	11
68	Asymmetry and Microstructure of Temporal-Suppression Patterns in Basilar-Membrane Responses to Clicks: Relation to Tonal Suppression and Traveling-Wave Dispersion. JARO - Journal of the Association for Research in Otolaryngology, 2020, 21, 151-170.	1.8	10
69	FREQUENCY DEPENDENCE OF STIMULUS-FREQUENCY-EMISSION PHASE: IMPLICATIONS FOR COCHLEAR MECHANICS. , 2000, , .		10
70	Using Cochlear Microphonic Potentials to Localize Peripheral Hearing Loss. Frontiers in Neuroscience, 2017, 11, 169.	2.8	9
71	Interplay between traveling wave propagation and amplification at the apex of the mouse cochlea. Biophysical Journal, 2022, 121, 2940-2951.	0.5	9
72	Transient- and Tone-Evoked Otoacoustic Emissions in Three Species. AIP Conference Proceedings, 2011, , .	0.4	8

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73	Effects of Forward- and Emitted-Pressure Calibrations on the Variability of Otoacoustic Emission Measurements Across Repeated Probe Fits. Ear and Hearing, 2019, 40, 1345-1358.	2.1	8
74	Whistling While it Works: Spontaneous Otoacoustic Emissions and the Cochlear Amplifier. JARO - Journal of the Association for Research in Otolaryngology, 2022, 23, 17-25.	1.8	8
75	Frequency shifts in distortion-product otoacoustic emissions evoked by swept tones. Journal of the Acoustical Society of America, 2016, 140, 936-944.	1.1	7
76	Deviations from Scaling Symmetry in the Apical Half of the Human Cochlea. , 2011, 1403, 483-488.		6
77	The Elusive Cochlear Filter: Wave Origin of Cochlear Cross-Frequency Masking. JARO - Journal of the Association for Research in Otolaryngology, 2021, 22, 623-640.	1.8	6
78	Reflection-Source Emissions Evoked with Clicks and Frequency Sweeps: Comparisons Across Levels. JARO - Journal of the Association for Research in Otolaryngology, 2021, 22, 641-658.	1.8	6
79	Characterizing the Relationship Between Reflection and Distortion Otoacoustic Emissions in Normal-Hearing Adults. JARO - Journal of the Association for Research in Otolaryngology, 2022, 23, 647-664.	1.8	6
80	Otoacoustic Estimates of Cochlear Tuning: Testing Predictions in Macaque. AIP Conference Proceedings, 2011, 1403, 286-292.	0.4	5
81	Variable-rate frequency sweeps and their application to the measurement of otoacoustic emissions. Journal of the Acoustical Society of America, 2019, 146, 3457-3465.	1.1	5
82	Hopf-Bifurcations and Van der Pol Oscillator Models of the Mammalian Cochlea. , 2011, , .		4
83	Can a Static Nonlinearity Account for the Dynamics of Otoacoustic Emission Suppression?. , 2011, 1403, 257-263.		4
84	Tracing Distortion Product (DP) Waves in a Cochlear Model. , 2011, 1403, 557-562.		4
85	Relating the variability of tone-burst otoacoustic emission and auditory brainstem response latencies to the underlying cochlear mechanics. AIP Conference Proceedings, 2015, 1703, .	0.4	4
86	On the calculation of reflectance in non-uniform ear canals. Journal of the Acoustical Society of America, 2019, 146, 1464-1474.	1.1	4
87	A cochlea with three parts? Evidence from otoacoustic emission phase in humans. Journal of the Acoustical Society of America, 2020, 148, 1585-1601.	1.1	4
88	Auditory filter shapes derived from forward and simultaneous masking at low frequencies: Implications for human cochlear tuning. Hearing Research, 2022, 420, 108500.	2.0	4
89	Spectral Ripples in Round-Window Cochlear Microphonics: Evidence for Multiple Generation Mechanisms. JARO - Journal of the Association for Research in Otolaryngology, 2018, 19, 401-419.	1.8	3
90	Iterated intracochlear reflection shapes the envelopes of basilar-membrane click responses. Journal of the Acoustical Society of America, 2015, 138, 3717-3722.	1.1	2

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91	Probing apical-basal differences in the human cochlea using distortion-product otoacoustic emission phase. AIP Conference Proceedings, 2018, 1965, .	0.4	2
92	Extended low-frequency phase of the distortion-product otoacoustic emission in human newborns. JASA Express Letters, 2021, 1, 014404.	1.1	2
93	Forward- and Reverse-Traveling Waves in DP Phenomenology: Does Inverted Direction of Wave Propagation Occur in Classical Models?. , 2011, 1403, .		1
94	Increasing computational efficiency of cochlear models using boundary layers. AIP Conference Proceedings, 2015, 1703, .	0.4	1
95	Negative-delay sources in distortion product otoacoustic emissions. Hearing Research, 2018, 360, 25-30.	2.0	1
96	Temporal suppression of clicked-evoked otoacoustic emissions and basilar-membrane motion in gerbils. AIP Conference Proceedings, 2018, 1965, .	0.4	1
97	COMPARING OTOACOUSTIC EMISSIONS AND BASILAR MEMBRANE MOTION IN INDIVIDUAL EARS. , 2009, , .		1
98	The spiral staircase: Tonotopic microstructure and cochlear tuning. AIP Conference Proceedings, 2015, , .	0.4	0
99	Introducing causality violation for improved DPOAE component unmixing. AIP Conference Proceedings, 2018, 1965, .	0.4	0