

Christopher A Shera

List of Publications by Year in descending order

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99
papers

4,842
citations

109137

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102
all docs

102
docs citations

102
times ranked

1162
citing authors

#	ARTICLE	IF	CITATIONS
1	Evoked otoacoustic emissions arise by two fundamentally different mechanisms: A taxonomy for mammalian OAEs. <i>Journal of the Acoustical Society of America</i> , 1999, 105, 782-798.	0.5	622
2	Revised estimates of human cochlear tuning from otoacoustic and behavioral measurements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3318-3323.	3.3	420
3	The origin of periodicity in the spectrum of evoked otoacoustic emissions. <i>Journal of the Acoustical Society of America</i> , 1995, 98, 2018-2047.	0.5	371
4	Otoacoustic Estimation of Cochlear Tuning: Validation in the Chinchilla. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2010, 11, 343-365.	0.9	182
5	Stimulus-frequency-emission group delay: A test of coherent reflection filtering and a window on cochlear tuning. <i>Journal of the Acoustical Society of America</i> , 2003, 113, 2762-2772.	0.5	181
6	Mammalian spontaneous otoacoustic emissions are amplitude-stabilized cochlear standing waves. <i>Journal of the Acoustical Society of America</i> , 2003, 114, 244-262.	0.5	178
7	Distortion-product source unmixing: A test of the two-mechanism model for DPOAE generation. <i>Journal of the Acoustical Society of America</i> , 2001, 109, 622-637.	0.5	171
8	Mechanisms of Mammalian Otoacoustic Emission and their Implications for the Clinical Utility of Otoacoustic Emissions. <i>Ear and Hearing</i> , 2004, 25, 86-97.	1.0	131
9	Frequency selectivity in Old-World monkeys corroborates sharp cochlear tuning in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17516-17520.	3.3	116
10	Near equivalence of human click-evoked and stimulus-frequency otoacoustic emissions. <i>Journal of the Acoustical Society of America</i> , 2007, 121, 2097-2110.	0.5	100
11	Intensity-invariance of fine time structure in basilar-membrane click responses: Implications for cochlear mechanics. <i>Journal of the Acoustical Society of America</i> , 2001, 110, 332-348.	0.5	94
12	Noninvasive measurement of the cochlear traveling-wave ratio. <i>Journal of the Acoustical Society of America</i> , 1993, 93, 3333-3352.	0.5	87
13	Laser amplification with a twist: Traveling-wave propagation and gain functions from throughout the cochlea. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 2738-2758.	0.5	86
14	Coherent reflection in a two-dimensional cochlea: Short-wave versus long-wave scattering in the generation of reflection-source otoacoustic emissions. <i>Journal of the Acoustical Society of America</i> , 2005, 118, 287-313.	0.5	83
15	Nonlinear time-domain cochlear model for transient stimulation and human otoacoustic emission. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 3842-3848.	0.5	73
16	Increased contralateral suppression of otoacoustic emissions indicates a hyperresponsive medial olivocochlear system in humans with tinnitus and hyperacusis. <i>Journal of Neurophysiology</i> , 2014, 112, 3197-3208.	0.9	65
17	Comparing stimulus-frequency otoacoustic emissions measured by compression, suppression, and spectral smoothing. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 3562-3575.	0.5	59
18	Measuring stimulus-frequency otoacoustic emissions using swept tones. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 356-368.	0.5	58

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19	Interrelations among distortion-product phase-gradient delays: Their connection to scaling symmetry and its breaking. <i>Journal of the Acoustical Society of America</i> , 2000, 108, 2933-2948.	0.5	57
20	Reflection of retrograde waves within the cochlea and at the stapes. <i>Journal of the Acoustical Society of America</i> , 1991, 89, 1290-1305.	0.5	56
21	Frequency glides in click responses of the basilar membrane and auditory nerve: Their scaling behavior and origin in traveling-wave dispersion. <i>Journal of the Acoustical Society of America</i> , 2001, 109, 2023-2034.	0.5	56
22	Testing coherent reflection in chinchilla: Auditory-nerve responses predict stimulus-frequency emissions. <i>Journal of the Acoustical Society of America</i> , 2008, 124, 381-395.	0.5	55
23	Otoacoustic-emission-based medial-olivocochlear reflex assays for humans. <i>Journal of the Acoustical Society of America</i> , 2014, 136, 2697-2713.	0.5	55
24	Mammalian behavior and physiology converge to confirm sharper cochlear tuning in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11322-11326.	3.3	54
25	The eardrums move when the eyes move: A multisensory effect on the mechanics of hearing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E1309-E1318.	3.3	53
26	Cochlear outer hair cell electromotility enhances organ of Corti motion on a cycle-by-cycle basis at high frequencies in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	53
27	Obtaining reliable phase-gradient delays from otoacoustic emission data. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 927-943.	0.5	51
28	Compensating for ear-canal acoustics when measuring otoacoustic emissions. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 515-531.	0.5	51
29	The origin of SFOAE microstructure in the guinea pig. <i>Hearing Research</i> , 2003, 183, 7-17.	0.9	48
30	Posture-Induced Changes in Distortion-Product Otoacoustic Emissions and the Potential for Noninvasive Monitoring of Changes in Intracranial Pressure. <i>Neurocritical Care</i> , 2006, 4, 251-257.	1.2	48
31	Cochlear traveling-wave amplification, suppression, and beamforming probed using noninvasive calibration of intracochlear distortion sources. <i>Journal of the Acoustical Society of America</i> , 2007, 121, 1003-1016.	0.5	48
32	A symmetry suppresses the cochlear catastrophe. <i>Journal of the Acoustical Society of America</i> , 1991, 89, 1276-1289.	0.5	44
33	Middle-ear phenomenology: The view from the three windows. <i>Journal of the Acoustical Society of America</i> , 1992, 92, 1356-1370.	0.5	42
34	Functional modeling of the human auditory brainstem response to broadband stimulation. <i>Journal of the Acoustical Society of America</i> , 2015, 138, 1637-1659.	0.5	42
35	Small Tumor Virus Genomes Are Integrated near Nuclear Matrix Attachment Regions in Transformed Cells. <i>Journal of Virology</i> , 2001, 75, 12339-12346.	1.5	37
36	Simultaneous measurement of middle-ear input impedance and forward/reverse transmission in cat. <i>Journal of the Acoustical Society of America</i> , 2004, 116, 2187-2198.	0.5	35

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37	Allen's Fahey and related experiments support the predominance of cochlear slow-wave otoacoustic emissions. <i>Journal of the Acoustical Society of America</i> , 2007, 121, 1564-1575.	0.5	35
38	An empirical bound on the compressibility of the cochlea. <i>Journal of the Acoustical Society of America</i> , 1992, 92, 1382-1388.	0.5	34
39	Posture systematically alters ear-canal reflectance and DPOAE properties. <i>Hearing Research</i> , 2010, 263, 43-51.	0.9	32
40	On the spatial distribution of the reflection sources of different latency components of otoacoustic emissions. <i>Journal of the Acoustical Society of America</i> , 2015, 137, 768-776.	0.5	32
41	Phenomenological characterization of eardrum transduction. <i>Journal of the Acoustical Society of America</i> , 1991, 90, 253-262.	0.5	31
42	Cochlear reflectivity in transmission-line models and otoacoustic emission characteristic time delays. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 3554-3561.	0.5	31
43	Coherent reflection without traveling waves: On the origin of long-latency otoacoustic emissions in lizards. <i>Journal of the Acoustical Society of America</i> , 2010, 127, 2398-2409.	0.5	31
44	Basilar-membrane interference patterns from multiple internal reflection of cochlear traveling waves. <i>Journal of the Acoustical Society of America</i> , 2013, 133, 2224-2239.	0.5	31
45	Optimizing swept-tone protocols for recording distortion-product otoacoustic emissions in adults and newborns. <i>Journal of the Acoustical Society of America</i> , 2015, 138, 3785-3799.	0.5	31
46	Analyzing reverse middle-ear transmission: Noninvasive Gedankenexperiments. <i>Journal of the Acoustical Society of America</i> , 1992, 92, 1371-1381.	0.5	30
47	Middle Ear Pathology Can Affect the Ear-Canal Sound Pressure Generated by Audiologic Earphones. <i>Ear and Hearing</i> , 2000, 21, 265-274.	1.0	30
48	Mechanisms of Mammalian Otoacoustic Emission. <i>Springer Handbook of Auditory Research</i> , 2008, , 305-342.	0.3	29
49	Reflection- and Distortion-Source Otoacoustic Emissions: Evidence for Increased Irregularity in the Human Cochlea During Aging. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2018, 19, 493-510.	0.9	28
50	Acoustic mechanisms that determine the ear-canal sound pressures generated by earphones. <i>Journal of the Acoustical Society of America</i> , 2000, 107, 1548-1565.	0.5	25
51	Wave propagation patterns in a 'classical' three-dimensional model of the cochlea. <i>Journal of the Acoustical Society of America</i> , 2007, 121, 352-362.	0.5	25
52	The cochlear ear horn: geometric origin of tonotopic variations in auditory signal processing. <i>Scientific Reports</i> , 2020, 10, 20528.	1.6	25
53	Do Forward- and Backward-Travelling Waves Occur Within the Cochlea? Countering the Critique of Nobili et al.. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2004, 5, 349-359.	0.9	24
54	Distortion products and backward-travelling waves in nonlinear active models of the cochlea. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 3141-3152.	0.5	22

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55	Nonlinear cochlear mechanics without direct vibration-amplification feedback. <i>Physical Review Research</i> , 2020, 2, .	1.3	21
56	Delays and Growth Rates of Multiple TEOAE Components. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	18
57	The Spiral Staircase: Tonotopic Microstructure and Cochlear Tuning. <i>Journal of Neuroscience</i> , 2015, 35, 4683-4690.	1.7	18
58	Swept-tone stimulus-frequency otoacoustic emissions: Normative data and methodological considerations. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 181-192.	0.5	17
59	Morphological Immaturity of the Neonatal Organ of Corti and Associated Structures in Humans. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2019, 20, 461-474.	0.9	17
60	Distortion-product otoacoustic emission reflection-component delays and cochlear tuning: Estimates from across the human lifespan. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 1950-1958.	0.5	14
61	Cochlear Frequency Tuning and Otoacoustic Emissions. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2019, 9, a033498.	2.9	14
62	A comparison of ear-canal-reflectance measurement methods in an ear simulator. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 1350-1361.	0.5	14
63	Characterizing spontaneous otoacoustic emissions across the human lifespan. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 1874-1886.	0.5	13
64	Probing cochlear tuning and tonotopy in the tiger using otoacoustic emissions. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2012, 198, 617-624.	0.7	12
65	Dynamics of cochlear nonlinearity: Automatic gain control or instantaneous damping?. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 3510-3519.	0.5	12
66	Reflectance of acoustic horns and solution of the inverse problem. <i>Journal of the Acoustical Society of America</i> , 2012, 131, 1863-1873.	0.5	11
67	Constraints imposed by zero-crossing invariance on cochlear models with two mechanical degrees of freedom. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 1685-1695.	0.5	11
68	Asymmetry and Microstructure of Temporal-Suppression Patterns in Basilar-Membrane Responses to Clicks: Relation to Tonal Suppression and Traveling-Wave Dispersion. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2020, 21, 151-170.	0.9	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. <i>Frontiers in Neuroscience</i> , 2017, 11, 169.	1.4	9
71	Interplay between traveling wave propagation and amplification at the apex of the mouse cochlea. <i>Biophysical Journal</i> , 2022, 121, 2940-2951.	0.2	9
72	Transient- and Tone-Evoked Otoacoustic Emissions in Three Species. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	8

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73	Effects of Forward- and Emitted-Pressure Calibrations on the Variability of Otoacoustic Emission Measurements Across Repeated Probe Fits. <i>Ear and Hearing</i> , 2019, 40, 1345-1358.	1.0	8
74	Whistling While it Works: Spontaneous Otoacoustic Emissions and the Cochlear Amplifier. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2022, 23, 17-25.	0.9	8
75	Frequency shifts in distortion-product otoacoustic emissions evoked by swept tones. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 936-944.	0.5	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. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2021, 22, 623-640.	0.9	6
78	Reflection-Source Emissions Evoked with Clicks and Frequency Sweeps: Comparisons Across Levels. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2021, 22, 641-658.	0.9	6
79	Characterizing the Relationship Between Reflection and Distortion Otoacoustic Emissions in Normal-Hearing Adults. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2022, 23, 647-664.	0.9	6
80	Otoacoustic Estimates of Cochlear Tuning: Testing Predictions in Macaque. <i>AIP Conference Proceedings</i> , 2011, 1403, 286-292.	0.3	5
81	Variable-rate frequency sweeps and their application to the measurement of otoacoustic emissions. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 3457-3465.	0.5	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. <i>AIP Conference Proceedings</i> , 2015, 1703, .	0.3	4
86	On the calculation of reflectance in non-uniform ear canals. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 1464-1474.	0.5	4
87	A cochlea with three parts? Evidence from otoacoustic emission phase in humans. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 1585-1601.	0.5	4
88	Auditory filter shapes derived from forward and simultaneous masking at low frequencies: Implications for human cochlear tuning. <i>Hearing Research</i> , 2022, 420, 108500.	0.9	4
89	Spectral Ripples in Round-Window Cochlear Microphonics: Evidence for Multiple Generation Mechanisms. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2018, 19, 401-419.	0.9	3
90	Iterated intracochlear reflection shapes the envelopes of basilar-membrane click responses. <i>Journal of the Acoustical Society of America</i> , 2015, 138, 3717-3722.	0.5	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, .	0.3	2
92	Extended low-frequency phase of the distortion-product otoacoustic emission in human newborns. JASA Express Letters, 2021, 1, 014404.	0.5	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, .	0.3	1
95	Negative-delay sources in distortion product otoacoustic emissions. Hearing Research, 2018, 360, 25-30.	0.9	1
96	Temporal suppression of clicked-evoked otoacoustic emissions and basilar-membrane motion in gerbils. AIP Conference Proceedings, 2018, 1965, .	0.3	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, , .	0.3	0
99	Introducing causality violation for improved DPOAE component unmixing. AIP Conference Proceedings, 2018, 1965, .	0.3	0