Bertrand Delgutte

List of Publications by Year
in descending order

47 papers	2,627 citations	201674 27 h-index	214800 47 g-index
50 all docs	50 docs citations	50 times ranked	1060 citing authors

#	Article	IF	Citations
1	Rabbits use both spectral and temporal cues to discriminate the fundamental frequency of harmonic complexes with missing fundamentals. Journal of Neurophysiology, 2022, 127, 290-312.	1.8	4
2	Chronic Bilateral Cochlear Implant Stimulation Partially Restores Neural Binaural Sensitivity in Neonatally-Deaf Rabbits. Journal of Neuroscience, 2021, 41, 3651-3664.	3.6	9
3	Rate and Temporal Coding of Regular and Irregular Pulse Trains in Auditory Midbrain of Normal-Hearing and Cochlear-Implanted Rabbits. JARO - Journal of the Association for Research in Otolaryngology, 2021, 22, 319-347.	1.8	2
4	Robust Rate-Place Coding of Resolved Components in Harmonic and Inharmonic Complex Tones in Auditory Midbrain. Journal of Neuroscience, 2020, 40, 2080-2093.	3.6	13
5	Neural coding and perception of auditory motion direction based on interaural time differences. Journal of Neurophysiology, 2019, 122, 1821-1842.	1.8	7
6	Pitch of harmonic complex tones: rate and temporal coding of envelope repetition rate in inferior colliculus of unanesthetized rabbits. Journal of Neurophysiology, 2019, 122, 2468-2485.	1.8	9
7	Neural ITD Sensitivity and Temporal Coding with Cochlear Implants in an Animal Model of Early-Onset Deafness. JARO - Journal of the Association for Research in Otolaryngology, 2019, 20, 37-56.	1.8	21
8	Introducing Short Interpulse Intervals in High-Rate Pulse Trains Enhances Binaural Timing Sensitivity in Electric Hearing. JARO - Journal of the Association for Research in Otolaryngology, 2018, 19, 301-315.	1.8	18
9	Pitch of Harmonic Complex Tones: Rate Coding of Envelope Repetition Rate in the Auditory Midbrain. Acta Acustica United With Acustica, 2018, 104, 860-864.	0.8	2
10	Improved Neural Coding of ITD with Bilateral Cochlear Implants by Introducing Short Inter-pulse Intervals. JARO - Journal of the Association for Research in Otolaryngology, 2018, 19, 681-702.	1.8	17
11	Neural coding of time-varying interaural time differences and time-varying amplitude in the inferior colliculus. Journal of Neurophysiology, 2017, 118, 544-563.	1.8	6
12	Temporal Envelope Coding by Inferior Colliculus Neurons with Cochlear Implant Stimulation. JARO - Journal of the Association for Research in Otolaryngology, 2017, 18, 771-788.	1.8	4
13	Neural Coding of Interaural Time Differences with Bilateral Cochlear Implants in Unanesthetized Rabbits. Journal of Neuroscience, 2016, 36, 5520-5531.	3.6	36
14	Neural population encoding and decoding of sound source location across sound level in the rabbit inferior colliculus. Journal of Neurophysiology, 2016, 115, 193-207.	1.8	11
15	Neural Coding of Sound Envelope in Reverberant Environments. Journal of Neuroscience, 2015, 35, 4452-4468.	3.6	31
16	Modeling Binaural Responses in the Auditory Brainstem to Electric Stimulation of the Auditory Nerve. JARO - Journal of the Association for Research in Otolaryngology, 2015, 16, 135-158.	1.8	15
17	Coding of Electric Pulse Trains Presented through Cochlear Implants in the Auditory Midbrain of Awake Rabbit: Comparison with Anesthetized Preparations. Journal of Neuroscience, 2014, 34, 218-231.	3.6	38
18	Better Temporal Neural Coding with Cochlear Implants in Awake Animals. Advances in Experimental Medicine and Biology, 2013, 787, 353-361.	1.6	3

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19	Congenital and Prolonged Adult-Onset Deafness Cause Distinct Degradations in Neural ITD Coding with Bilateral Cochlear Implants. JARO - Journal of the Association for Research in Otolaryngology, 2013, 14, 393-411.	1.8	37
20	Neural encoding of sound source location in the presence of a concurrent, spatially separated source. Journal of Neurophysiology, 2012, 108, 2612-2628.	1.8	35
21	Neural ITD coding with bilateral cochlear implants: effect of binaurally coherent jitter. Journal of Neurophysiology, 2012, 108, 714-728.	1.8	53
22	Sensitivity of cochlear nucleus neurons to spatio-temporal changes in auditory nerve activity. Journal of Neurophysiology, 2012, 108, 3172-3195.	1.8	11
23	The relative importance in the auditory nerve spiking of a neuron's internal dynamics versus an external input stimulus. , 2011, , .		1
24	Neural Coding of Interaural Time Differences with Bilateral Cochlear Implants: Effects of Congenital Deafness. Journal of Neuroscience, 2010, 30, 14068-14079.	3.6	79
25	Spatiotemporal Representation of the Pitch of Harmonic Complex Tones in the Auditory Nerve. Journal of Neuroscience, 2010, 30, 12712-12724.	3.6	59
26	Effects of Reverberation on the Directional Sensitivity of Auditory Neurons across the Tonotopic Axis: Influences of Interaural Time and Level Differences. Journal of Neuroscience, 2010, 30, 7826-7837.	3.6	55
27	Accurate Sound Localization in Reverberant Environments Is Mediated by Robust Encoding of Spatial Cues in the Auditory Midbrain. Neuron, 2009, 62, 123-134.	8.1	78
28	Sensitivity of Inferior Colliculus Neurons to Interaural Time Differences in the Envelope Versus the Fine Structure With Bilateral Cochlear Implants. Journal of Neurophysiology, 2008, 99, 2390-2407.	1.8	25
29	Pitch Representations in the Auditory Nerve: Two Concurrent Complex Tones. Journal of Neurophysiology, 2008, 100, 1301-1319.	1.8	50
30	Sensitivity to Interaural Time Differences in the Inferior Colliculus with Bilateral Cochlear Implants. Journal of Neuroscience, 2007, 27, 6740-6750.	3.6	48
31	Pitch of Complex Tones: Rate-Place and Interspike Interval Representations in the Auditory Nerve. Journal of Neurophysiology, 2005, 94, 347-362.	1.8	78
32	A Physiologically Based Model of Interaural Time Difference Discrimination. Journal of Neuroscience, 2004, 24, 7110-7117.	3.6	135
33	Mathematical models of cochlear nucleus onset neurons: I. Point neuron with many weak synaptic inputs. Journal of Computational Neuroscience, 2003, 14, 71-90.	1.0	23
34	Improved temporal coding of sinusoids in electric stimulation of the auditory nerve using desynchronizing pulse trains. Journal of the Acoustical Society of America, 2003, 114, 2079-2098.	1.1	60
35	Improved neural representation of vowels in electric stimulation using desynchronizing pulse trains. Journal of the Acoustical Society of America, 2003, 114, 2099-2111.	1.1	32
36	Neurobiological Foundations for the Theory of Harmony in Western Tonal Music. Annals of the New York Academy of Sciences, 2001, 930, 92-116.	3.8	168

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37	Auditory nerve fiber responses to electric stimulation: Modulated and unmodulated pulse trains. Journal of the Acoustical Society of America, 2001, 110, 368-379.	1.1	114
38	A possible neurophysiological basis of the octave enlargement effect. Journal of the Acoustical Society of America, 1999, 106, 2679-2692.	1.1	29
39	Physiological Models for Basic Auditory Percepts. Springer Handbook of Auditory Research, 1996, , 157-220.	0.7	62
40	Phase-locking of auditory-nerve discharges to sinusoidal electric stimulation of the cochlea. Hearing Research, 1992, 58, 79-90.	2.0	116
41	Physiological mechanisms of psychophysical masking: Observations from auditory-nerve fibers. Journal of the Acoustical Society of America, 1990, 87, 791-809.	1.1	162
42	Speech coding in the auditory nerve: I. Vowel-like sounds. Journal of the Acoustical Society of America, 1984, 75, 866-878.	1.1	251
43	Speech coding in the auditory nerve: III. Voiceless fricative consonants. Journal of the Acoustical Society of America, 1984, 75, 887-896.	1.1	84
44	Speech coding in the auditory nerve: V. Vowels in background noise. Journal of the Acoustical Society of America, 1984, 75, 908-918.	1.1	78
45	Speech coding in the auditory nerve: II. Processing schemes for vowelâ€like sounds. Journal of the Acoustical Society of America, 1984, 75, 879-886.	1.1	88
46	Speech coding in the auditory nerve: IV. Sounds with consonantâ€like dynamic characteristics. Journal of the Acoustical Society of America, 1984, 75, 897-907.	1.1	160
47	Representation of speechâ€like sounds in the discharge patterns of auditoryâ€nerve fibers. Journal of the Acoustical Society of America, 1980, 68, 843-857.	1.1	206