Christophe Micheyl

List of Publications by Year
in descending order

79 papers	4,939 citations	126907 33 h-index	95266 68 g-index
80 all docs	80 docs citations	80 times ranked	2427 citing authors

#	Article	IF	Citations
1	Gradual decay and sudden death of short-term memory for pitch. Journal of the Acoustical Society of America, 2021, 149, 259-270.	1.1	0
2	On the utility of perceptual anchors during pure-tone frequency discrimination. Journal of the Acoustical Society of America, 2020, 147, 371-380.	1.1	3
3	Frogs Exploit Statistical Regularities in Noisy Acoustic Scenes to Solve Cocktail-Party-like Problems. Current Biology, 2017, 27, 743-750.	3.9	32
4	Neural Representation of Concurrent Vowels in Macaque Primary Auditory Cortex. ENeuro, 2016, 3, ENEURO.0071-16.2016.	1.9	9
5	Expectations for melodic contours transcend pitch.. Journal of Experimental Psychology: Human Perception and Performance, 2014, 40, 2338-2347.	0.9	8
6	Neural Representation of Concurrent Harmonic Sounds in Monkey Primary Auditory Cortex: Implications for Models of Auditory Scene Analysis. Journal of Neuroscience, 2014, 34, 12425-12443.	3.6	20
7	Perception of Across-Frequency Asynchrony by Listeners with Cochlear Hearing Loss. JARO - Journal of the Association for Research in Otolaryngology, 2013, 14, 573-589.	1.8	1
8	Pitch Perception: Dissociating Frequency from Fundamental-Frequency Discrimination. Advances in Experimental Medicine and Biology, 2013, 787, 137-145.	1.6	4
9	Temporal Coherence and the Streaming of Complex Sounds. Advances in Experimental Medicine and Biology, 2013, 787, 535-543.	1.6	30
10	Temporal coherence versus harmonicity in auditory stream formation. Journal of the Acoustical Society of America, 2013, 133, EL188-EL194.	1.1	31
11	Auditory Frequency and Intensity Discrimination Explained Using a Cortical Population Rate Code. PLoS Computational Biology, 2013, 9, e1003336.	3.2	43
12	Auditory stream segregation for alternating and synchronous tones.. Journal of Experimental Psychology: Human Perception and Performance, 2013, 39, 1568-1580.	0.9	28
13	Comparing models of the combined-stimulation advantage for speech recognition. Journal of the Acoustical Society of America, 2012, 131, 3970-3980.	1.1	18
14	Further evidence that fundamental-frequency difference limens measure pitch discrimination. Journal of the Acoustical Society of America, 2012, 131, 3989-4001.	1.1	14
15	Separating the contributions of primary and unwanted cues in psychophysical studies.. Psychological Review, 2012, 119, 770-788.	3.8	4
16	Toward a Theory of Information Processing in Auditory Cortex. Springer Handbook of Auditory Research, 2012, , 351-390.	0.7	10
17	Characterizing the dependence of pure-tone frequency difference limens on frequency, duration, and level. Hearing Research, 2012, 292, 1-13.	2.0	42
18	Across-Channel Timing Differences as a Potential Code for the Frequency of Pure Tones. JARO - Journal of the Association for Research in Otolaryngology, 2012, 13, 159-171.	1.8	19

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19	Auditory Object Analysis. Springer Handbook of Auditory Research, 2012, , 199-223.	0.7	5
20	Neural mechanisms of rhythmic masking release in monkey primary auditory cortex: implications for models of auditory scene analysis. Journal of Neurophysiology, 2012, 107, 2366-2382.	1.8	22
21	Recalibration of the auditory continuity illusion: Sensory and decisional effects. Hearing Research, 2011, 277, 152-162.	2.0	13
22	Temporal coherence and attention in auditory scene analysis. Trends in Neurosciences, 2011, 34, 114-123.	8.6	360
23	Auditory Efferents Facilitate Sound Localization in Noise in Humans: Figure 1.. Journal of Neuroscience, 2011, 31, 6759-6763.	3.6	64
24	Psychometric functions for pure-tone frequency discrimination. Journal of the Acoustical Society of America, 2011, 130, 263-272.	1.1	33
25	Pitch perception beyond the traditional existence region of pitch. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7629-7634.	7.1	91
26	Perceptual grouping affects pitch judgments across time and frequency.. Journal of Experimental Psychology: Human Perception and Performance, 2011, 37, 257-269.	0.9	28
27	Auditory stream segregation and the perception of across-frequency synchrony.. Journal of Experimental Psychology: Human Perception and Performance, 2010, 36, 1029-1039.	0.9	34
28	Behavioral measures of auditory streaming in ferrets (Mustela putorius).. Journal of Comparative Psychology (Washington, D C: 1983), 2010, 124, 317-330.	0.5	30
29	On the choice of adequate randomization ranges for limiting the use of unwanted cues in same-different, dual-pair, and oddity tasks. Attention, Perception, and Psychophysics, 2010, 72, 538-547.	1.3	15
30	Neural adaptation to tone sequences in the songbird forebrain: patterns, determinants, and relation to the build-up of auditory streaming. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2010, 196, 543-557.	1.6	48
31	Objective and Subjective Psychophysical Measures of Auditory Stream Integration and Segregation. JARO - Journal of the Association for Research in Otolaryngology, 2010, 11, 709-724.	1.8	69
32	Behind the scenes of auditory perception. Current Opinion in Neurobiology, 2010, 20, 361-366.	4.2	104
33	Musical intervals and relative pitch: Frequency resolution, not interval resolution, is special. Journal of the Acoustical Society of America, 2010, 128, 1943-1951.	1.1	52
34	Pitch perception for mixtures of spectrally overlapping harmonic complex tones. Journal of the Acoustical Society of America, 2010, 128, 257-269.	1.1	22
35	Does fundamental-frequency discrimination measure virtual pitch discrimination?. Journal of the Acoustical Society of America, 2010, 128, 1930-1942.	1.1	22
36	Pitch, harmonicity and concurrent sound segregation: Psychoacoustical and neurophysiological findings. Hearing Research, 2010, 266, 36-51.	2.0	107

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37	Sequential and Simultaneous Auditory Grouping Measured with Synchrony Detection. , 2010, , 489-496.		3
38	Rate Versus Temporal Code? A Spatio-Temporal Coherence Model of the Cortical Basis of Streaming. , 2010, , 497-506.		0
39	Sensory noise explains auditory frequency discrimination learning induced by training with identical stimuli. Perception & Psychophysics, 2009, 71, 5-7.	2.3	17
40	Likelihood ratio, optimal decision rules, and relationship between proportion correct and dâ€™ in the dual-pair AB-versus-BA identification paradigm. Attention, Perception, and Psychophysics, 2009, 71, 1426-1433.	1.3	9
41	Temporal Coherence in the Perceptual Organization and Cortical Representation of Auditory Scenes. Neuron, 2009, 61, 317-329.	8.1	215
42	Can temporal fine structure represent the fundamental frequency of unresolved harmonics?. Journal of the Acoustical Society of America, 2009, 125, 2189-2199.	1.1	69
43	Perceptual Organization of Sound Begins in the Auditory Periphery. Current Biology, 2008, 18, 1124-1128.	3.9	204
44	Neural Correlates of Auditory Perceptual Awareness under Informational Masking. PLoS Biology, 2008, 6, e138.	5.6	163
45	The cocktail party problem: What is it? How can it be solved? And why should animal behaviorists study it?. Journal of Comparative Psychology (Washington, D C: 1983), 2008, 122, 235-251.	0.5	292
46	An evaluation of psychophysical models of auditory change perception.. Psychological Review, 2008, 115, 1069-1083.	3.8	23
47	Human Cortical Activity during Streaming without Spectral Cues Suggests a General Neural Substrate for Auditory Stream Segregation. Journal of Neuroscience, 2007, 27, 13074-13081.	3.6	74
48	Across-frequency pitch discrimination interference between complex tones containing resolved harmonics. Journal of the Acoustical Society of America, 2007, 121, 1621-1631.	1.1	21
49	Hearing Out Repeating Elements in Randomly Varying Multitone Sequences: A Case of Streaming?. , 2007, , 267-274.		17
50	The role of auditory cortex in the formation of auditory streams. Hearing Research, 2007, 229, 116-131.	2.0	165
51	Enhanced frequency discrimination in hearing-impaired individuals: A review of perceptual correlates of central neural plasticity induced by cochlear damage. Hearing Research, 2007, 233, 14-22.	2.0	34
52	Cortical fMRI Activation to Sequences of Tones Alternating in Frequency: Relationship to Perceived Rate and Streaming. Journal of Neurophysiology, 2007, 97, 2230-2238.	1.8	77
53	Influence of musical and psychoacoustical training on pitch discrimination. Hearing Research, 2006, 219, 36-47.	2.0	372
54	Likelihood ratio, optimal decision rules, and correct response probabilities in a signal detection theoretic, equal-variance Gaussian model of the observer in the 4IAX paradigm. Perception & Psychophysics, 2006, 68, 725-735.	2.3	11

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55	Detection and F0 discrimination of harmonic complex tones in the presence of competing tones or noise. Journal of the Acoustical Society of America, 2006, 120, 1493-1505.	1.1	27
56	Generalization of Frequency Discrimination Learning Across Frequencies and Ears: Implications for Underlying Neural Mechanisms in Humans. JARO - Journal of the Association for Research in Otolaryngology, 2005, 6, 171-179.	1.8	43
57	Comparing F0 discrimination in sequential and simultaneous conditions. Journal of the Acoustical Society of America, 2005, 118, 41-44.	1.1	8
58	Neuromagnetic Correlates of Streaming in Human Auditory Cortex. Journal of Neuroscience, 2005, 25, 5382-5388.	3.6	195
59	Perceptual Organization of Tone Sequences in the Auditory Cortex of Awake Macaques. Neuron, 2005, 48, 139-148.	8.1	266
60	Auditory streaming without spectral cues in hearing-impaired subjects. , 2005, , 211-219.		0
61	Sequential F0 comparisons between resolved and unresolved harmonics: No evidence for translation noise between two pitch mechanisms. Journal of the Acoustical Society of America, 2004, 116, 3038-3050.	1.1	29
62	Learning in discrimination of frequency or modulation rate: generalization to fundamental frequency discrimination. Hearing Research, 2003, 184, 41-50.	2.0	31
63	Enhanced frequency discrimination near the hearing loss cut-off: a consequence of central auditory plasticity induced by cochlear damage?. Brain, 2003, 126, 2235-2245.	7.6	80
64	Neurodynamics for auditory stream segregation: tracking sounds in the mustached bat's natural environment. Network: Computation in Neural Systems, 2003, 14, 413-435.	3.6	41
65	Neurodynamics for auditory stream segregation: tracking sounds in the mustached bat's natural environment. Network: Computation in Neural Systems, 2003, 14, 413-435.	3.6	20
66	Neurodynamics for auditory stream segregation: tracking sounds in the mustached bat's natural environment. Network: Computation in Neural Systems, 2003, 14, 413-35.	3.6	26
67	Auditory stream segregation on the basis of amplitude-modulation rate. Journal of the Acoustical Society of America, 2002, 111, 1340-1348.	1.1	148
68	Psychoacoustic Characterization of the Tinnitus Spectrum: Implications for the Underlying Mechanisms of Tinnitus. Audiology and Neuro-Otology, 2002, 7, 358-369.	1.3	322
69	Evidence for two pitch encoding mechanisms using a selective auditory training paradigm. Perception & Psychophysics, 2002, 64, 189-197.	2.3	44
70	Delay and Temporal Integration in Medial Olivocochlear Bundle Activation in Humans. Ear and Hearing, 2001, 22, 65-74.	2.1	18
71	Influence of peripheral resolvability on the perceptual segregation of harmonic complex tones differing in fundamental frequency. Journal of the Acoustical Society of America, 2000, 108, 263-271.	1.1	55
72	Activation of medial olivocochlear efferent system in humans: influence of stimulus bandwidth. Hearing Research, 2000, 140, 111-125.	2.0	64

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73	Context dependence of fundamental-frequency discrimination: Lateralized temporal fringes. Journal of the Acoustical Society of America, 1999, 106, 3553-3563.	1.1	36
74	Stronger bilateral efferent influences on cochlear biomechanical activity in musicians than in non-musicians. Neuroscience Letters, 1999, 262, 167-170.	2.1	51
75	Contralateral frequency-modulated tones suppress transient-evoked otoacoustic emissions in humans. Hearing Research, 1998, 117, 114-118.	2.0	11
76	Effects of temporal fringes on fundamental-frequency discrimination. Journal of the Acoustical Society of America, 1998, 104, 3006-3018.	1.1	36
77	Difference in cochlear efferent activity between musicians and non-musicians. NeuroReport, 1997, 8, 1047-1050.	1.2	33
78	Medial olivocochlear system stabilizes active cochlear micromechanical properties in humans. Hearing Research, 1997, 113, 89-98.	2.0	24
79	Involvement of the olivocochlear bundle in the detection of tones in noise. Journal of the Acoustical Society of America, 1996, 99, 1604-1610.	1.1	129