

Christophe Micheyl

List of Publications by Year in descending order

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Version: 2024-02-01

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	Influence of musical and psychoacoustical training on pitch discrimination. <i>Hearing Research</i> , 2006, 219, 36-47.	2.0	372
2	Temporal coherence and attention in auditory scene analysis. <i>Trends in Neurosciences</i> , 2011, 34, 114-123.	8.6	360
3	Psychoacoustic Characterization of the Tinnitus Spectrum: Implications for the Underlying Mechanisms of Tinnitus. <i>Audiology and Neuro-Otology</i> , 2002, 7, 358-369.	1.3	322
4	The cocktail party problem: What is it? How can it be solved? And why should animal behaviorists study it?. <i>Journal of Comparative Psychology (Washington, D C: 1983)</i> , 2008, 122, 235-251.	0.5	292
5	Perceptual Organization of Tone Sequences in the Auditory Cortex of Awake Macaques. <i>Neuron</i> , 2005, 48, 139-148.	8.1	266
6	Temporal Coherence in the Perceptual Organization and Cortical Representation of Auditory Scenes. <i>Neuron</i> , 2009, 61, 317-329.	8.1	215
7	Perceptual Organization of Sound Begins in the Auditory Periphery. <i>Current Biology</i> , 2008, 18, 1124-1128.	3.9	204
8	Neuromagnetic Correlates of Streaming in Human Auditory Cortex. <i>Journal of Neuroscience</i> , 2005, 25, 5382-5388.	3.6	195
9	The role of auditory cortex in the formation of auditory streams. <i>Hearing Research</i> , 2007, 229, 116-131.	2.0	165
10	Neural Correlates of Auditory Perceptual Awareness under Informational Masking. <i>PLoS Biology</i> , 2008, 6, e138.	5.6	163
11	Auditory stream segregation on the basis of amplitude-modulation rate. <i>Journal of the Acoustical Society of America</i> , 2002, 111, 1340-1348.	1.1	148
12	Involvement of the olivocochlear bundle in the detection of tones in noise. <i>Journal of the Acoustical Society of America</i> , 1996, 99, 1604-1610.	1.1	129
13	Pitch, harmonicity and concurrent sound segregation: Psychoacoustical and neurophysiological findings. <i>Hearing Research</i> , 2010, 266, 36-51.	2.0	107
14	Behind the scenes of auditory perception. <i>Current Opinion in Neurobiology</i> , 2010, 20, 361-366.	4.2	104
15	Pitch perception beyond the traditional existence region of pitch. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7629-7634.	7.1	91
16	Enhanced frequency discrimination near the hearing loss cut-off: a consequence of central auditory plasticity induced by cochlear damage?. <i>Brain</i> , 2003, 126, 2235-2245.	7.6	80
17	Cortical fMRI Activation to Sequences of Tones Alternating in Frequency: Relationship to Perceived Rate and Streaming. <i>Journal of Neurophysiology</i> , 2007, 97, 2230-2238.	1.8	77
18	Human Cortical Activity during Streaming without Spectral Cues Suggests a General Neural Substrate for Auditory Stream Segregation. <i>Journal of Neuroscience</i> , 2007, 27, 13074-13081.	3.6	74

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19	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
20	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
21	Activation of medial olivocochlear efferent system in humans: influence of stimulus bandwidth. Hearing Research, 2000, 140, 111-125.	2.0	64
22	Auditory Efferents Facilitate Sound Localization in Noise in Humans: Figure 1.. Journal of Neuroscience, 2011, 31, 6759-6763.	3.6	64
23	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
24	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
25	Stronger bilateral efferent influences on cochlear biomechanical activity in musicians than in non-musicians. Neuroscience Letters, 1999, 262, 167-170.	2.1	51
26	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
27	Evidence for two pitch encoding mechanisms using a selective auditory training paradigm. Perception & Psychophysics, 2002, 64, 189-197.	2.3	44
28	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
29	Auditory Frequency and Intensity Discrimination Explained Using a Cortical Population Rate Code. PLoS Computational Biology, 2013, 9, e1003336.	3.2	43
30	Characterizing the dependence of pure-tone frequency difference limens on frequency, duration, and level. Hearing Research, 2012, 292, 1-13.	2.0	42
31	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
32	Effects of temporal fringes on fundamental-frequency discrimination. Journal of the Acoustical Society of America, 1998, 104, 3006-3018.	1.1	36
33	Context dependence of fundamental-frequency discrimination: Lateralized temporal fringes. Journal of the Acoustical Society of America, 1999, 106, 3553-3563.	1.1	36
34	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
35	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
36	Difference in cochlear efferent activity between musicians and non-musicians. NeuroReport, 1997, 8, 1047-1050.	1.2	33

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37	Psychometric functions for pure-tone frequency discrimination. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 263-272.	1.1	33
38	Frogs Exploit Statistical Regularities in Noisy Acoustic Scenes to Solve Cocktail-Party-like Problems. <i>Current Biology</i> , 2017, 27, 743-750.	3.9	32
39	Learning in discrimination of frequency or modulation rate: generalization to fundamental frequency discrimination. <i>Hearing Research</i> , 2003, 184, 41-50.	2.0	31
40	Temporal coherence versus harmonicity in auditory stream formation. <i>Journal of the Acoustical Society of America</i> , 2013, 133, EL188-EL194.	1.1	31
41	Behavioral measures of auditory streaming in ferrets (<i>Mustela putorius</i>).. <i>Journal of Comparative Psychology</i> (Washington, D C: 1983), 2010, 124, 317-330.	0.5	30
42	Temporal Coherence and the Streaming of Complex Sounds. <i>Advances in Experimental Medicine and Biology</i> , 2013, 787, 535-543.	1.6	30
43	Sequential F0 comparisons between resolved and unresolved harmonics: No evidence for translation noise between two pitch mechanisms. <i>Journal of the Acoustical Society of America</i> , 2004, 116, 3038-3050.	1.1	29
44	Perceptual grouping affects pitch judgments across time and frequency.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2011, 37, 257-269.	0.9	28
45	Auditory stream segregation for alternating and synchronous tones.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2013, 39, 1568-1580.	0.9	28
46	Detection and F0 discrimination of harmonic complex tones in the presence of competing tones or noise. <i>Journal of the Acoustical Society of America</i> , 2006, 120, 1493-1505.	1.1	27
47	Neurodynamics for auditory stream segregation: tracking sounds in the mustached bat's natural environment. <i>Network: Computation in Neural Systems</i> , 2003, 14, 413-35.	3.6	26
48	Medial olivocochlear system stabilizes active cochlear micromechanical properties in humans. <i>Hearing Research</i> , 1997, 113, 89-98.	2.0	24
49	An evaluation of psychophysical models of auditory change perception.. <i>Psychological Review</i> , 2008, 115, 1069-1083.	3.8	23
50	Pitch perception for mixtures of spectrally overlapping harmonic complex tones. <i>Journal of the Acoustical Society of America</i> , 2010, 128, 257-269.	1.1	22
51	Does fundamental-frequency discrimination measure virtual pitch discrimination?. <i>Journal of the Acoustical Society of America</i> , 2010, 128, 1930-1942.	1.1	22
52	Neural mechanisms of rhythmic masking release in monkey primary auditory cortex: implications for models of auditory scene analysis. <i>Journal of Neurophysiology</i> , 2012, 107, 2366-2382.	1.8	22
53	Across-frequency pitch discrimination interference between complex tones containing resolved harmonics. <i>Journal of the Acoustical Society of America</i> , 2007, 121, 1621-1631.	1.1	21
54	Neural Representation of Concurrent Harmonic Sounds in Monkey Primary Auditory Cortex: Implications for Models of Auditory Scene Analysis. <i>Journal of Neuroscience</i> , 2014, 34, 12425-12443.	3.6	20

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55	Neurodynamics for auditory stream segregation: tracking sounds in the mustached bat's natural environment. <i>Network: Computation in Neural Systems</i> , 2003, 14, 413-435.	3.6	20
56	Across-Channel Timing Differences as a Potential Code for the Frequency of Pure Tones. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2012, 13, 159-171.	1.8	19
57	Delay and Temporal Integration in Medial Olivocochlear Bundle Activation in Humans. <i>Ear and Hearing</i> , 2001, 22, 65-74.	2.1	18
58	Comparing models of the combined-stimulation advantage for speech recognition. <i>Journal of the Acoustical Society of America</i> , 2012, 131, 3970-3980.	1.1	18
59	Hearing Out Repeating Elements in Randomly Varying Multitone Sequences: A Case of Streaming?. , 2007, , 267-274.		17
60	Sensory noise explains auditory frequency discrimination learning induced by training with identical stimuli. <i>Perception & Psychophysics</i> , 2009, 71, 5-7.	2.3	17
61	On the choice of adequate randomization ranges for limiting the use of unwanted cues in same-different, dual-pair, and oddity tasks. <i>Attention, Perception, and Psychophysics</i> , 2010, 72, 538-547.	1.3	15
62	Further evidence that fundamental-frequency difference limens measure pitch discrimination. <i>Journal of the Acoustical Society of America</i> , 2012, 131, 3989-4001.	1.1	14
63	Recalibration of the auditory continuity illusion: Sensory and decisional effects. <i>Hearing Research</i> , 2011, 277, 152-162.	2.0	13
64	Contralateral frequency-modulated tones suppress transient-evoked otoacoustic emissions in humans. <i>Hearing Research</i> , 1998, 117, 114-118.	2.0	11
65	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. <i>Perception & Psychophysics</i> , 2006, 68, 725-735.	2.3	11
66	Toward a Theory of Information Processing in Auditory Cortex. <i>Springer Handbook of Auditory Research</i> , 2012, , 351-390.	0.7	10
67	Likelihood ratio, optimal decision rules, and relationship between proportion correct and d' in the dual-pair AB-versus-BA identification paradigm. <i>Attention, Perception, and Psychophysics</i> , 2009, 71, 1426-1433.	1.3	9
68	Neural Representation of Concurrent Vowels in Macaque Primary Auditory Cortex. <i>ENeuro</i> , 2016, 3, ENEURO.0071-16.2016.	1.9	9
69	Comparing F0 discrimination in sequential and simultaneous conditions. <i>Journal of the Acoustical Society of America</i> , 2005, 118, 41-44.	1.1	8
70	Expectations for melodic contours transcend pitch.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2014, 40, 2338-2347.	0.9	8
71	Auditory Object Analysis. <i>Springer Handbook of Auditory Research</i> , 2012, , 199-223.	0.7	5
72	Separating the contributions of primary and unwanted cues in psychophysical studies.. <i>Psychological Review</i> , 2012, 119, 770-788.	3.8	4

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73	Pitch Perception: Dissociating Frequency from Fundamental-Frequency Discrimination. <i>Advances in Experimental Medicine and Biology</i> , 2013, 787, 137-145.	1.6	4
74	On the utility of perceptual anchors during pure-tone frequency discrimination. <i>Journal of the Acoustical Society of America</i> , 2020, 147, 371-380.	1.1	3
75	Sequential and Simultaneous Auditory Grouping Measured with Synchrony Detection. , 2010, , 489-496.		3
76	Perception of Across-Frequency Asynchrony by Listeners with Cochlear Hearing Loss. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2013, 14, 573-589.	1.8	1
77	Gradual decay and sudden death of short-term memory for pitch. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 259-270.	1.1	0
78	Auditory streaming without spectral cues in hearing-impaired subjects. , 2005, , 211-219.		0
79	Rate Versus Temporal Code? A Spatio-Temporal Coherence Model of the Cortical Basis of Streaming. , 2010, , 497-506.		0