

Christian Lorenzi

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

3,856
citations

159585

30
h-index

144013

57
g-index

127
all docs

127
docs citations

127
times ranked

2124
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporal integration for amplitude modulation in childhood: Interaction between internal noise and memory. <i>Hearing Research</i> , 2022, 415, 108403.	2.0	5
2	Probing temporal modulation detection in white noise using intrinsic envelope fluctuations: A reverse-correlation study. <i>Journal of the Acoustical Society of America</i> , 2022, 151, 1353-1366.	1.1	3
3	Robustness to Noise in the Auditory System: A Distributed and Predictable Property. <i>ENeuro</i> , 2021, 8, ENEURO.0043-21.2021.	1.9	9
4	Contributions of Age-Related and Audibility-Related Deficits to Aided Consonant Identification in Presbycusis: A Causal-Inference Analysis. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 640522.	3.4	2
5	Mechanisms of Spectrotemporal Modulation Detection for Normal- and Hearing-Impaired Listeners. <i>Trends in Hearing</i> , 2021, 25, 233121652097802.	1.3	4
6	Double-pass consistency for amplitude- and frequency-modulation detection in normal-hearing listeners. <i>Journal of the Acoustical Society of America</i> , 2021, 150, 3631-3647.	1.1	2
7	A two-path model of auditory modulation detection using temporal fine structure and envelope cues. <i>European Journal of Neuroscience</i> , 2020, 51, 1265-1278.	2.6	22
8	Characterizing amplitude and frequency modulation cues in natural soundscapes: A pilot study on four habitats of a biosphere reserve. <i>Journal of the Acoustical Society of America</i> , 2020, 147, 3260-3274.	1.1	9
9	Noise-Sensitive But More Precise Subcortical Representations Coexist with Robust Cortical Encoding of Natural Vocalizations. <i>Journal of Neuroscience</i> , 2020, 40, 5228-5246.	3.6	26
10	Development of temporal auditory processing in childhood: Changes in efficiency rather than temporal-modulation selectivity. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 2415-2429.	1.1	17
11	Accounting for masking of frequency modulation by amplitude modulation with the modulation filter-bank concept. <i>Journal of the Acoustical Society of America</i> , 2019, 145, 2277-2293.	1.1	14
12	Amplitude modulation detection and modulation masking in school-age children and adults. <i>Journal of the Acoustical Society of America</i> , 2019, 145, 2565-2575.	1.1	8
13	High-Frequency Sensorineural Hearing Loss Alters Cue-Weighting Strategies for Discriminating Stop Consonants in Noise. <i>Trends in Hearing</i> , 2019, 23, 233121651988670.	1.3	15
14	Dual Coding of Frequency Modulation in the Ventral Cochlear Nucleus. <i>Journal of Neuroscience</i> , 2018, 38, 4123-4137.	3.6	20
15	Speech recognition for school-age children and adults tested in multi-tone vs multi-noise-band maskers. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 1458-1466.	1.1	3
16	Modelling firing regularity in the ventral cochlear nucleus: Mechanisms, and effects of stimulus level and synaptopathy. <i>Hearing Research</i> , 2018, 358, 98-110.	2.0	4
17	Robust Neuronal Discrimination in Primary Auditory Cortex Despite Degradations of Spectro-temporal Acoustic Details: Comparison Between Guinea Pigs with Normal Hearing and Mild Age-Related Hearing Loss. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2018, 19, 163-180.	1.8	19
18	Sensorineural hearing loss impairs sensitivity but spares temporal integration for detection of frequency modulation. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 720-733.	1.1	15

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19	Sensorineural hearing loss enhances auditory sensitivity and temporal integration for amplitude modulation. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 971-980.	1.1	37
20	A cross-linguistic study of speech modulation spectra. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 1976-1989.	1.1	102
21	Using individual differences to assess modulation-processing mechanisms and age effects. <i>Hearing Research</i> , 2017, 344, 38-49.	2.0	14
22	Comparing the effects of age on amplitude modulation and frequency modulation detection. <i>Journal of the Acoustical Society of America</i> , 2016, 139, 3088-3096.	1.1	39
23	Interactions between amplitude modulation and frequency modulation processing: Effects of age and hearing loss. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 121-131.	1.1	34
24	Is There a Relationship Between Speech Identification in Noise and Categorical Perception in Children With Dyslexia?. <i>Journal of Speech, Language, and Hearing Research</i> , 2016, 59, 835-852.	1.6	19
25	Dynamic Reweighting of Auditory Modulation Filters. <i>PLoS Computational Biology</i> , 2016, 12, e1005019.	3.2	11
26	Infants Discriminate Voicing and Place of Articulation With Reduced Spectral and Temporal Modulation Cues. <i>Journal of Speech, Language, and Hearing Research</i> , 2015, 58, 1033-1042.	1.6	11
27	Downstream changes in firing regularity following damage to the early auditory system. <i>BMC Neuroscience</i> , 2015, 16, .	1.9	0
28	The perception of speech modulation cues in lexical tones is guided by early language-specific experience. <i>Frontiers in Psychology</i> , 2015, 6, 1290.	2.1	23
29	The role of spectro-temporal fine structure cues in lexical-tone discrimination for French and Mandarin listeners. <i>Journal of the Acoustical Society of America</i> , 2014, 136, 877-882.	1.1	19
30	Perception of prosody in normal and whispered French. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 2026-2040.	1.1	14
31	Role of slow temporal modulations in speech identification for cochlear implant users. <i>International Journal of Audiology</i> , 2014, 53, 48-54.	1.7	18
32	Abnormal intelligibility of speech in competing speech and in noise in a frequency region where audiometric thresholds are near-normal for hearing-impaired listeners. <i>Hearing Research</i> , 2014, 316, 102-109.	2.0	6
33	Use of Amplitude Modulation Cues Recovered from Frequency Modulation for Cochlear Implant Users When Original Speech Cues Are Severely Degraded. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2014, 15, 423-439.	1.8	7
34	Optimal Combination of Neural Temporal Envelope and Fine Structure Cues to Explain Speech Identification in Background Noise. <i>Journal of Neuroscience</i> , 2014, 34, 12145-12154.	3.6	25
35	Effects of Noise Reduction on AM Perception for Hearing-Impaired Listeners. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2014, 15, 839-848.	1.8	2
36	Effects of Noise Reduction on AM and FM Perception. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2013, 14, 149-157.	1.8	9

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37	On the balance of envelope and temporal fine structure in the encoding of speech in the early auditory system. <i>Journal of the Acoustical Society of America</i> , 2013, 133, 2818-2833.	1.1	76
38	Perception of Speech Modulation Cues by 6-Month-Old Infants. <i>Journal of Speech, Language, and Hearing Research</i> , 2013, 56, 1733-1744.	1.6	13
39	Physiological prediction of masking release for normal-hearing and hearing-impaired listeners. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	6
40	Temporal and spectral masking release in low- and mid-frequency regions for normal-hearing and hearing-impaired listeners. <i>Journal of the Acoustical Society of America</i> , 2012, 131, 1502-1514.	1.1	18
41	The ability of cochlear implant users to use temporal envelope cues recovered from speech frequency modulation. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 1113-1119.	1.1	9
42	Effects of spectral smearing on the identification of speech in noise filtered into low- and mid-frequency regions. <i>Journal of the Acoustical Society of America</i> , 2012, 131, 4114-4123.	1.1	7
43	Effects of Age and Hearing Loss on the Relationship Between Discrimination of Stochastic Frequency Modulation and Speech Perception. <i>Ear and Hearing</i> , 2012, 33, 709-720.	2.1	51
44	Temporal-Envelope Reconstruction for Hearing-Impaired Listeners. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2012, 13, 853-865.	1.8	9
45	Abnormal speech processing in frequency regions where absolute thresholds are normal for listeners with high-frequency hearing loss. <i>Hearing Research</i> , 2012, 294, 95-103.	2.0	29
46	Noise on, voicing off: Speech perception deficits in children with specific language impairment. <i>Journal of Experimental Child Psychology</i> , 2011, 110, 362-372.	1.4	40
47	Importance of temporal-envelope speech cues in different spectral regions. <i>Journal of the Acoustical Society of America</i> , 2011, 130, EL115-EL121.	1.1	14
48	Six-month-old infants discriminate voicing on the basis of temporal envelope cues (L). <i>Journal of the Acoustical Society of America</i> , 2011, 129, 2761-2764.	1.1	29
49	Role of spectral and temporal cues in restoring missing speech information. <i>Journal of the Acoustical Society of America</i> , 2010, 128, EL294-EL299.	1.1	11
50	Perception of temporal fine-structure cues in speech with minimal envelope cues for listeners with mild-to-moderate hearing loss. <i>International Journal of Audiology</i> , 2010, 49, 823-831.	1.7	25
51	Effects of lowpass and highpass filtering on the intelligibility of speech based on temporal fine structure or envelope cues. <i>Hearing Research</i> , 2010, 260, 89-95.	2.0	45
52	Intelligibility of interrupted and interleaved speech for normal-hearing listeners and cochlear implantees. <i>Hearing Research</i> , 2010, 265, 46-53.	2.0	24
53	Discrimination of voicing (aba vs. apa) on the basis of Envelope temporal cues in 6-month old infants. <i>Proceedings of Meetings on Acoustics</i> , 2010, , .	0.3	0
54	Abnormal processing of temporal fine structure in speech for frequencies where absolute thresholds are normal. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 27-30.	1.1	112

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55	Effects of spectral smearing and temporal fine structure degradation on speech masking release. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 4023-4033.	1.1	61
56	Speech perception in noise deficits in dyslexia. <i>Developmental Science</i> , 2009, 12, 732-745.	2.4	261
57	Discrimination of Speech Sounds Based Upon Temporal Envelope Versus Fine Structure Cues in 5- to 7-Year-Old Children. <i>Journal of Speech, Language, and Hearing Research</i> , 2009, 52, 682-695.	1.6	28
58	Auditory temporal processing in Parkinson's disease. <i>Neuropsychologia</i> , 2008, 46, 2326-2335.	1.6	34
59	Effect of masker modulation depth on speech masking release. <i>Hearing Research</i> , 2008, 239, 60-68.	2.0	52
60	Investigation of perceptual constancy in the temporal-envelope domain. <i>Journal of the Acoustical Society of America</i> , 2008, 123, 1591-1601.	1.1	9
61	Speech identification based on temporal fine structure cues. <i>Journal of the Acoustical Society of America</i> , 2008, 124, 562-575.	1.1	58
62	Effects of periodic interruptions on the intelligibility of speech based on temporal fine-structure or envelope cues. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 1336-1339.	1.1	38
63	Speech masking release in listeners with flat hearing loss: Effects of masker fluctuation rate on identification scores and phonetic feature reception. <i>International Journal of Audiology</i> , 2006, 45, 487-495.	1.7	48
64	Masking release for consonant features in temporally fluctuating background noise. <i>Hearing Research</i> , 2006, 211, 74-84.	2.0	113
65	Evaluation of two computational models of amplitude modulation coding in the inferior colliculus. <i>Hearing Research</i> , 2006, 211, 54-62.	2.0	16
66	No adaptation in the amplitude modulation domain in trained listeners. <i>Journal of the Acoustical Society of America</i> , 2006, 119, 3542-3545.	1.1	8
67	The ability of listeners to use recovered envelope cues from speech fine structure. <i>Journal of the Acoustical Society of America</i> , 2006, 119, 2438-2444.	1.1	103
68	Speech perception problems of the hearing impaired reflect inability to use temporal fine structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18866-18869.	7.1	463
69	Modulation masking produced by second-order modulators. <i>Journal of the Acoustical Society of America</i> , 2005, 117, 2158-2168.	1.1	18
70	Perception of the envelope-beat frequency of inharmonic complex temporal envelopes. <i>Journal of the Acoustical Society of America</i> , 2005, 118, 3757-3765.	1.1	6
71	Deficits in speech perception predict language learning impairment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14110-14115.	7.1	171
72	Detection of 1st- and 2nd-order Temporal-envelope Cues in a Patient With Left Superior Cortical Damage. <i>Neurocase</i> , 2004, 10, 189-197.	0.6	3

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73	Temporal Envelope Processing in the Human Left and Right Auditory Cortices. <i>Cerebral Cortex</i> , 2004, 14, 731-740.	2.9	134
74	Effects of amplitude compression on first- and second-order modulation detection thresholds in cochlear implant listeners. <i>International Journal of Audiology</i> , 2004, 43, 264-270.	1.7	10
75	Identification of envelope-expanded sentences in normal-hearing and hearing-impaired listeners. <i>Hearing Research</i> , 2004, 189, 13-24.	2.0	21
76	Voice onset time encoding in patients with left and right cochlear implants. <i>NeuroReport</i> , 2004, 15, 601-605.	1.2	25
77	Neuropsychological outcome in children with optic pathway tumours when first-line treatment is chemotherapy. <i>British Journal of Cancer</i> , 2003, 89, 2038-2044.	6.4	69
78	Effect of a noise modulation masker on the detection of second-order amplitude modulation. <i>Hearing Research</i> , 2003, 178, 1-11.	2.0	7
79	Effect of cochlear damage on the detection of complex temporal envelopes. <i>Hearing Research</i> , 2003, 178, 35-43.	2.0	58
80	The role of envelope beat cues in the detection and discrimination of second-order amplitude modulation (L). <i>Journal of the Acoustical Society of America</i> , 2003, 113, 49-52.	1.1	16
81	Effect of duration on amplitude-modulation masking. <i>Journal of the Acoustical Society of America</i> , 2002, 111, 2551-2554.	1.1	5
82	Temporal envelope perception in dyslexic children. <i>NeuroReport</i> , 2002, 13, 1683-1687.	1.2	56
83	Temporal envelope expansion of speech in noise for normal-hearing and hearing-impaired listeners: effects on identification performance and response times. <i>Hearing Research</i> , 2001, 153, 123-131.	2.0	30
84	Second-order temporal modulation transfer functions. <i>Journal of the Acoustical Society of America</i> , 2001, 110, 1030-1038.	1.1	43
85	Second-order modulation detection thresholds for pure-tone and narrow-band noise carriers. <i>Journal of the Acoustical Society of America</i> , 2001, 110, 2470-2478.	1.1	33
86	Use of Temporal Envelope Cues by Children With Developmental Dyslexia. <i>Journal of Speech, Language, and Hearing Research</i> , 2000, 43, 1367-1379.	1.6	81
87	Representation of the Temporal Envelope of Sounds in the Human Brain. <i>Journal of Neurophysiology</i> , 2000, 84, 1588-1598.	1.8	314
88	Auditory temporal envelope processing in a patient with left-hemisphere damage. <i>Neurocase</i> , 2000, 6, 231-244.	0.6	18
89	Visual sensitivity to temporal modulations of temporal noise. <i>Vision Research</i> , 2000, 40, 3817-3822.	1.4	12
90	Auditory Temporal Envelope Processing in a Patient with Left-hemisphere Damage. <i>Neurocase</i> , 2000, 6, 231-243.	0.6	2

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91	Discrimination of amplitude-modulation phase spectrum. Journal of the Acoustical Society of America, 1999, 105, 2987-2990.	1.1	15
92	Effects of envelope expansion on speech recognition. Hearing Research, 1999, 136, 131-138.	2.0	41
93	Sound localization in noise in normal-hearing listeners. Journal of the Acoustical Society of America, 1999, 105, 1810-1820.	1.1	104
94	Sound localization in noise in hearing-impaired listeners. Journal of the Acoustical Society of America, 1999, 105, 3454-3463.	1.1	82
95	Amplitude Compression in Cochlear Implants Artificially Restricts the Perception of Temporal Asymmetry. International Journal of Audiology, 1998, 32, 367-374.	0.7	5
96	Discrimination of temporal asymmetry in cochlear implantees. Journal of the Acoustical Society of America, 1997, 102, 482-485.	1.1	10
97	Modulation Masking in Listeners With Sensorineural Hearing Loss. Journal of Speech, Language, and Hearing Research, 1997, 40, 200-207.	1.6	17
98	Precise and Perceptually Relevant Processing of Amplitude Modulation in the Auditory System. , 1996, , 139-153.		0
99	Neuronal correlates of perceptual amplitude-modulation detection. Hearing Research, 1995, 90, 219-227.	2.0	25
100	A computational model for amplitude modulation extraction and analysis of simultaneous amplitude modulated signals. European Physical Journal Special Topics, 1994, 04, C5-379-C5-382.	0.2	0
101	What Do We Mean by "Soundscape"? A Functional Description. Frontiers in Ecology and Evolution, 0, 10, .	2.2	15