

Jonas Obleser

List of Publications by Year in descending order

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144
papers

8,664
citations

41344

49
h-index

64796

79
g-index

191
all docs

191
docs citations

191
times ranked

5269
citing authors

#	ARTICLE	IF	CITATIONS
1	Frequency modulation entrains slow neural oscillations and optimizes human listening behavior. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20095-20100.	7.1	344
2	Functional Integration across Brain Regions Improves Speech Perception under Adverse Listening Conditions. Journal of Neuroscience, 2007, 27, 2283-2289.	3.6	339
3	Neural Entrainment and Attentional Selection in the Listening Brain. Trends in Cognitive Sciences, 2019, 23, 913-926.	7.8	280
4	Alpha Rhythms in Audition: Cognitive and Clinical Perspectives. Frontiers in Psychology, 2011, 2, 73.	2.1	246
5	Expectancy Constraints in Degraded Speech Modulate the Language Comprehension Network. Cerebral Cortex, 2010, 20, 633-640.	2.9	236
6	Entrained neural oscillations in multiple frequency bands comodulate behavior. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14935-14940.	7.1	183
7	Bilateral Speech Comprehension Reflects Differential Sensitivity to Spectral and Temporal Features. Journal of Neuroscience, 2008, 28, 8116-8123.	3.6	177
8	Adverse Listening Conditions and Memory Load Drive a Common Alpha Oscillatory Network. Journal of Neuroscience, 2012, 32, 12376-12383.	3.6	173
9	Spatiotemporal dynamics of auditory attention synchronize with speech. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3873-3878.	7.1	169
10	Suppressed Alpha Oscillations Predict Intelligibility of Speech and its Acoustic Details. Cerebral Cortex, 2012, 22, 2466-2477.	2.9	168
11	Vowel sound extraction in anterior superior temporal cortex. Human Brain Mapping, 2006, 27, 562-571.	3.6	163
12	Multiple Stages of Auditory Speech Perception Reflected in Event-Related fMRI. Cerebral Cortex, 2007, 17, 2251-2257.	2.9	145
13	Cortical alpha oscillations as a tool for auditory selective inhibition. Frontiers in Human Neuroscience, 2014, 8, 350.	2.0	142
14	Behavior needs neural variability. Neuron, 2021, 109, 751-766.	8.1	141
15	Pre-lexical abstraction of speech in the auditory cortex. Trends in Cognitive Sciences, 2009, 13, 14-19.	7.8	134
16	Integration of iconic gestures and speech in left superior temporal areas boosts speech comprehension under adverse listening conditions. NeuroImage, 2010, 49, 875-884.	4.2	132
17	The Brain Dynamics of Rapid Perceptual Adaptation to Adverse Listening Conditions. Journal of Neuroscience, 2013, 33, 10688-10697.	3.6	131
18	Multiple brain signatures of integration in the comprehension of degraded speech. NeuroImage, 2011, 55, 713-723.	4.2	125

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19	Magnetic Brain Response Mirrors Extraction of Phonological Features from Spoken Vowels. <i>Journal of Cognitive Neuroscience</i> , 2004, 16, 31-39.	2.3	120
20	Neural Alpha Dynamics in Younger and Older Listeners Reflect Acoustic Challenges and Predictive Benefits. <i>Journal of Neuroscience</i> , 2015, 35, 1458-1467.	3.6	116
21	Single-channel in-ear-EEG detects the focus of auditory attention to concurrent tone streams and mixed speech. <i>Journal of Neural Engineering</i> , 2017, 14, 036020.	3.5	116
22	Disentangling syntax and intelligibility in auditory language comprehension. <i>Human Brain Mapping</i> , 2010, 31, 448-457.	3.6	112
23	The Human Neural Alpha Response to Speech is a Proxy of Attentional Control. <i>Cerebral Cortex</i> , 2017, 27, 3307-3317.	2.9	109
24	Late cortical tracking of ignored speech facilitates neural selectivity in acoustically challenging conditions. <i>NeuroImage</i> , 2019, 186, 33-42.	4.2	105
25	Recovery from aphasia as a function of language therapy in an early bilingual patient demonstrated by fMRI. <i>Neuropsychologia</i> , 2007, 45, 1247-1256.	1.6	103
26	Cortical brain states and corticospinal synchronization influence TMS-evoked motor potentials. <i>Journal of Neurophysiology</i> , 2014, 111, 513-519.	1.8	98
27	States and traits of neural irregularity in the age-varying human brain. <i>Scientific Reports</i> , 2017, 7, 17381.	3.3	97
28	Upregulation of cognitive control networks in older adults' speech comprehension. <i>Frontiers in Systems Neuroscience</i> , 2013, 7, 116.	2.5	96
29	Neural tracking of attended versus ignored speech is differentially affected by hearing loss. <i>Journal of Neurophysiology</i> , 2017, 117, 18-27.	1.8	96
30	Alpha Oscillatory Dynamics Index Temporal Expectation Benefits in Working Memory. <i>Cerebral Cortex</i> , 2015, 25, 1938-1946.	2.9	95
31	Left parietal alpha enhancement during working memory-intensive sentence processing. <i>Cortex</i> , 2013, 49, 711-721.	2.4	94
32	Ageing affects the balance of neural entrainment and top-down neural modulation in the listening brain. <i>Nature Communications</i> , 2017, 8, 15801.	12.8	93
33	Narrowed Expectancies under Degraded Speech: Revisiting the N400. <i>Journal of Cognitive Neuroscience</i> , 2013, 25, 1383-1395.	2.3	90
34	Modality-specific tracking of attention and sensory statistics in the human electrophysiological spectral exponent. <i>ELife</i> , 2021, 10, .	6.0	87
35	Transcranial alternating current stimulation with speech envelopes modulates speech comprehension. <i>NeuroImage</i> , 2018, 172, 766-774.	4.2	85
36	Alpha Oscillations in the Human Brain Implement Distractor Suppression Independent of Target Selection. <i>Journal of Neuroscience</i> , 2019, 39, 9797-9805.	3.6	84

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37	Speech comprehension aided by multiple modalities: Behavioural and neural interactions. <i>Neuropsychologia</i> , 2012, 50, 762-776.	1.6	81
38	Alpha and theta brain oscillations index dissociable processes in spoken word recognition. <i>NeuroImage</i> , 2014, 97, 387-395.	4.2	81
39	Local cortical desynchronization and pupil-linked arousal differentially shape brain states for optimal sensory performance. <i>ELife</i> , 2019, 8, .	6.0	78
40	Temporal expectations and neural amplitude fluctuations in auditory cortex interactively influence perception. <i>NeuroImage</i> , 2016, 124, 487-497.	4.2	77
41	Cortical representation of vowels reflects acoustic dissimilarity determined by formant frequencies. <i>Cognitive Brain Research</i> , 2003, 15, 207-213.	3.0	75
42	Linking ordering in Broca's area to storage in left temporo-parietal regions: The case of sentence processing. <i>NeuroImage</i> , 2012, 62, 1987-1998.	4.2	75
43	Top-down knowledge supports the retrieval of lexical information from degraded speech. <i>Brain Research</i> , 2007, 1153, 134-143.	2.2	72
44	Neural Oscillations in Speech: Don't be Enslaved by the Envelope. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 250.	2.0	72
45	Auditory-evoked magnetic field codes place of articulation in timing and topography around 100 milliseconds post syllable onset. <i>NeuroImage</i> , 2003, 20, 1839-1847.	4.2	70
46	Now You Hear It, Now You Don't: Transient Traces of Consonants and their Nonspeech Analogues in the Human Brain. <i>Cerebral Cortex</i> , 2006, 16, 1069-1076.	2.9	70
47	Alpha Phase Determines Successful Lexical Decision in Noise. <i>Journal of Neuroscience</i> , 2015, 35, 3256-3262.	3.6	67
48	Repetitive transcranial magnetic stimulation over left angular gyrus modulates the predictability gain in degraded speech comprehension. <i>Cortex</i> , 2015, 68, 100-110.	2.4	65
49	Opposite effects of lateralised transcranial alpha versus gamma stimulation on auditory spatial attention. <i>Brain Stimulation</i> , 2018, 11, 752-758.	1.6	64
50	Hearing loss impacts neural alpha oscillations under adverse listening conditions. <i>Frontiers in Psychology</i> , 2015, 6, 177.	2.1	62
51	Dynamic assignment of neural resources in auditory comprehension of complex sentences. <i>NeuroImage</i> , 2011, 56, 2310-2320.	4.2	61
52	Prediction in the service of comprehension: Modulated early brain responses to omitted speech segments. <i>Cortex</i> , 2014, 53, 9-26.	2.4	59
53	Where Are the Human Speech and Voice Regions, and Do Other Animals Have Anything Like Them?. <i>Neuroscientist</i> , 2009, 15, 419-429.	3.5	56
54	Segregation of Vowels and Consonants in Human Auditory Cortex: Evidence for Distributed Hierarchical Organization. <i>Frontiers in Psychology</i> , 2010, 1, 232.	2.1	56

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55	Semantic versus perceptual interactions in neural processing of speech-in-noise. <i>NeuroImage</i> , 2013, 79, 52-61.	4.2	56
56	Frequency-specific adaptation in human auditory cortex depends on the spectral variance in the acoustic stimulation. <i>Journal of Neurophysiology</i> , 2013, 109, 2086-2096.	1.8	55
57	Dopaminergic modulation of hemodynamic signal variability and the functional connectome during cognitive performance. <i>NeuroImage</i> , 2018, 172, 341-356.	4.2	54
58	Prestimulus neural alpha power predicts confidence in discriminating identical auditory stimuli. <i>European Journal of Neuroscience</i> , 2019, 49, 94-105.	2.6	54
59	Selective Attention to Auditory Memory Neurally Enhances Perceptual Precision. <i>Journal of Neuroscience</i> , 2015, 35, 16094-16104.	3.6	53
60	Probing the limits of alpha power lateralisation as a neural marker of selective attention in middle-aged and older listeners. <i>European Journal of Neuroscience</i> , 2018, 48, 2537-2550.	2.6	53
61	Auditory skills and brain morphology predict individual differences in adaptation to degraded speech. <i>Neuropsychologia</i> , 2012, 50, 2154-2164.	1.6	49
62	Implicit temporal predictability enhances pitch discrimination sensitivity and biases the phase of delta oscillations in auditory cortex. <i>NeuroImage</i> , 2019, 203, 116198.	4.2	49
63	Synchronisation signatures in the listening brain: A perspective from non-invasive neuroelectrophysiology. <i>Hearing Research</i> , 2014, 307, 16-28.	2.0	48
64	Prediction Signatures in the Brain: Semantic Pre-Activation during Language Comprehension. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 591.	2.0	48
65	What works in auditory working memory? A neural oscillations perspective. <i>Brain Research</i> , 2016, 1640, 193-207.	2.2	48
66	Oscillatory Phase Dynamics in Neural Entrainment Underpin Illusory Percepts of Time. <i>Journal of Neuroscience</i> , 2013, 33, 15799-15809.	3.6	47
67	Altered temporal dynamics of neural adaptation in the aging human auditory cortex. <i>Neurobiology of Aging</i> , 2016, 45, 10-22.	3.1	47
68	What do we talk about when we talk about rhythm?. <i>PLoS Biology</i> , 2017, 15, e2002794.	5.6	47
69	Brain regions essential for improved lexical access in an aged aphasic patient: a case report. <i>BMC Neurology</i> , 2006, 6, 28.	1.8	46
70	Tracking the signal, cracking the code: speech and speech comprehension in non-invasive human electrophysiology. <i>Language, Cognition and Neuroscience</i> , 2017, 32, 855-869.	1.2	45
71	Dynamic Range Adaptation to Spectral Stimulus Statistics in Human Auditory Cortex. <i>Journal of Neuroscience</i> , 2014, 34, 327-331.	3.6	43
72	Dissociable neural imprints of perception and grammar in auditory functional imaging. <i>Human Brain Mapping</i> , 2012, 33, 584-595.	3.6	42

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73	Modular reconfiguration of an auditory control brain network supports adaptive listening behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 660-669.	7.1	42
74	Statistical context shapes stimulus-specific adaptation in human auditory cortex. <i>Journal of Neurophysiology</i> , 2015, 113, 2582-2591.	1.8	40
75	Quantifying the individual auditory and visual brain response in 7-month-old infants watching a brief cartoon movie. <i>NeuroImage</i> , 2019, 202, 116060.	4.2	40
76	Sentence processing and verbal working memory in a white-matter-disconnection patient. <i>Neuropsychologia</i> , 2014, 61, 190-196.	1.6	38
77	How Bodies and Voices Interact in Early Emotion Perception. <i>PLoS ONE</i> , 2012, 7, e36070.	2.5	37
78	Left prefrontal cortex activation during sentence comprehension covaries with grammatical knowledge in children. <i>NeuroImage</i> , 2012, 62, 207-216.	4.2	36
79	Gender differences in functional hemispheric asymmetry during processing of vowels as reflected by the human brain magnetic response. <i>Neuroscience Letters</i> , 2001, 314, 131-134.	2.1	35
80	Auditory evoked fields differentially encode speech features: an MEG investigation of the P50m and N100m time courses during syllable processing. <i>European Journal of Neuroscience</i> , 2007, 25, 3155-3162.	2.6	35
81	You can't stop the music: Reduced auditory alpha power and coupling between auditory and memory regions facilitate the illusory perception of music during noise. <i>NeuroImage</i> , 2013, 79, 383-393.	4.2	34
82	Slowâ€¦delta phase concentration marks improved temporal expectations based on the passage of time. <i>Psychophysiology</i> , 2015, 52, 910-918.	2.4	33
83	Neural Microstates Govern Perception of Auditory Input without Rhythmic Structure. <i>Journal of Neuroscience</i> , 2016, 36, 860-871.	3.6	33
84	Spatial Attention and Temporal Expectation Exert Differential Effects on Visual and Auditory Discrimination. <i>Journal of Cognitive Neuroscience</i> , 2020, 32, 1562-1576.	2.3	33
85	Auditory filter width affects response magnitude but not frequency specificity in auditory cortex. <i>Hearing Research</i> , 2013, 304, 128-136.	2.0	32
86	Attentional influences on functional mapping of speech sounds in human auditory cortex. <i>BMC Neuroscience</i> , 2004, 5, 24.	1.9	31
87	Acoustic Detail Guides Attention Allocation in a Selective Listening Task. <i>Journal of Cognitive Neuroscience</i> , 2015, 27, 988-1000.	2.3	31
88	Ten simple rules to study distractor suppression. <i>Progress in Neurobiology</i> , 2022, 213, 102269.	5.7	31
89	A Sparse Neural Code for Some Speech Sounds but Not for Others. <i>PLoS ONE</i> , 2012, 7, e40953.	2.5	30
90	Selective Attention to Temporal Features on Nested Time Scales. <i>Cerebral Cortex</i> , 2015, 25, 450-459.	2.9	30

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91	Implicit variations of temporal predictability: Shaping the neural oscillatory and behavioural response. <i>Neuropsychologia</i> , 2017, 101, 141-152.	1.6	27
92	Tracking Temporal Hazard in the Human Electroencephalogram Using a Forward Encoding Model. <i>ENeuro</i> , 2018, 5, ENEURO.0017-18.2018.	1.9	27
93	Intra-subject replication of brain magnetic activity during the processing of speech sounds. <i>Cognitive Brain Research</i> , 2004, 19, 82-91.	3.0	23
94	Predicting speech from a cortical hierarchy of event-based time scales. <i>Science Advances</i> , 2021, 7, eabi6070.	10.3	23
95	Acoustic Detail But Not Predictability of Task-Irrelevant Speech Disrupts Working Memory. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 538.	2.0	22
96	Does Closing the Eyes Enhance Auditory Attention? Eye Closure Increases Attentional Alpha-Power Modulation but Not Listening Performance. <i>Journal of Cognitive Neuroscience</i> , 2020, 32, 212-225.	2.3	22
97	The circadian phase of antenatal glucocorticoid treatment affects the risk of behavioral disorders. <i>Nature Communications</i> , 2020, 11, 3593.	12.8	22
98	Neural attentional-filter mechanisms of listening success in middle-aged and older individuals. <i>Nature Communications</i> , 2021, 12, 4533.	12.8	22
99	Attentional sampling of visual and auditory objects is captured by theta-modulated neural activity. <i>European Journal of Neuroscience</i> , 2022, 55, 3067-3082.	2.6	22
100	Facilitation of Inferior Frontal Cortex by Transcranial Direct Current Stimulation Induces Perceptual Learning of Severely Degraded Speech. <i>Journal of Neuroscience</i> , 2013, 33, 15868-15878.	3.6	21
101	Prior experience with negative spectral correlations promotes information integration during auditory category learning. <i>Memory and Cognition</i> , 2013, 41, 752-768.	1.6	20
102	Temporal selectivity declines in the aging human auditory cortex. <i>ELife</i> , 2020, 9, .	6.0	20
103	Spatiotemporal Dynamics of Argument Retrieval and Reordering: An fMRI and EEG Study on Sentence Processing. <i>Frontiers in Psychology</i> , 2012, 3, 523.	2.1	19
104	Putting the Listening Brain in Context. <i>Language and Linguistics Compass</i> , 2014, 8, 646-658.	2.3	19
105	Large-scale network dynamics of beta-band oscillations underlie auditory perceptual decision-making. <i>Network Neuroscience</i> , 2017, 1, 166-191.	2.6	19
106	Oscillatory dynamics of cortical functional connections in semantic prediction. <i>Human Brain Mapping</i> , 2019, 40, 1856-1866.	3.6	18
107	Temporal Expectation Modulates the Cortical Dynamics of Short-Term Memory. <i>Journal of Neuroscience</i> , 2018, 38, 7428-7439.	3.6	17
108	Neural tracking in infants – An analytical tool for multisensory social processing in development. <i>Developmental Cognitive Neuroscience</i> , 2021, 52, 101034.	4.0	16

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109	Supplementary motor area activations predict individual differences in temporal-change sensitivity and its illusory distortions. <i>NeuroImage</i> , 2014, 101, 370-379.	4.2	15
110	Sensitivity of rat inferior colliculus neurons to frequency distributions. <i>Journal of Neurophysiology</i> , 2015, 114, 2941-2954.	1.8	15
111	Endogenous modulation of delta phase by expectation – A replication of Stefanics et al., 2010. <i>Cortex</i> , 2022, 149, 226-245.	2.4	15
112	Frequency-Specific Effects in Infant Electroencephalograms Do Not Require Entrained Neural Oscillations: A Commentary on Kästner et al. (2019). <i>Psychological Science</i> , 2021, 32, 966-971.	3.3	14
113	Perceptual grouping in the cocktail party: Contributions of voice-feature continuity. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 2178-2188.	1.1	13
114	Neural modelling of the semantic predictability gain under challenging listening conditions. <i>Human Brain Mapping</i> , 2021, 42, 110-127.	3.6	13
115	Simultaneous EEG-fMRI brain signatures of auditory cue utilization. <i>Frontiers in Neuroscience</i> , 2014, 8, 137.	2.8	12
116	Dissociable Neural Response Signatures for Slow Amplitude and Frequency Modulation in Human Auditory Cortex. <i>PLoS ONE</i> , 2013, 8, e78758.	2.5	11
117	Unilateral Acoustic Degradation Delays Attentional Separation of Competing Speech. <i>Trends in Hearing</i> , 2021, 25, 233121652110132.	1.3	11
118	Orienting auditory attention in time: Lateralized alpha power reflects spatio-temporal filtering. <i>NeuroImage</i> , 2021, 228, 117711.	4.2	11
119	Perception of acoustically complex phonological features in vowels is reflected in the induced brain-magnetic activity. <i>Behavioral and Brain Functions</i> , 2007, 3, 26.	3.3	10
120	The representation of the verb's argument structure as disclosed by fMRI. <i>BMC Neuroscience</i> , 2009, 10, 3.	1.9	10
121	Circadian fluctuations in glucocorticoid level predict perceptual discrimination sensitivity. <i>iScience</i> , 2021, 24, 102345.	4.1	10
122	The vulnerability of working memory to distraction is rhythmic. <i>Neuropsychologia</i> , 2020, 146, 107505.	1.6	9
123	Working-memory disruption by task-irrelevant talkers depends on degree of talker familiarity. <i>Attention, Perception, and Psychophysics</i> , 2019, 81, 1108-1118.	1.3	8
124	Temporal Sensitivity Measured Shortly After Cochlear Implantation Predicts 6-Month Speech Recognition Outcome. <i>Ear and Hearing</i> , 2019, 40, 27-33.	2.1	8
125	Gender differences in hemispheric asymmetry of syllable processing: Left-lateralized magnetic N100 varies with syllable categorization in females. <i>Psychophysiology</i> , 2004, 41, 783-788.	2.4	7
126	Attention modulates the use of spectral attributes in vowel discrimination: Behavioral and event-related potential evidence. <i>Brain Research</i> , 2013, 1490, 170-183.	2.2	7

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127	Thalamic and parietal brain morphology predicts auditory category learning. <i>Neuropsychologia</i> , 2014, 53, 75-83.	1.6	6
128	The Benefit of Attention-to-Memory Depends on the Interplay of Memory Capacity and Memory Load. <i>Frontiers in Psychology</i> , 2018, 9, 184.	2.1	6
129	Familiarity and task context shape the use of acoustic information in voice identity perception. <i>Cognition</i> , 2021, 215, 104780.	2.2	6
130	Aberrant Perceptual Judgments on Speech-Relevant Acoustic Features in Hallucination-Prone Individuals. <i>Schizophrenia Bulletin Open</i> , 2020, 1, .	1.7	6
131	Predictions interact with missing sensory evidence in semantic processing areas. <i>Human Brain Mapping</i> , 2016, 37, 704-716.	3.6	5
132	Dynamic large-scale connectivity of intrinsic cortical oscillations supports adaptive listening in challenging conditions. <i>PLoS Biology</i> , 2021, 19, e3001410.	5.6	5
133	Personality captures dissociations of subjective versus objective hearing in noise. <i>Royal Society Open Science</i> , 2021, 8, 210881.	2.4	5
134	Distributed networks for auditory memory differentially contribute to recall precision. <i>NeuroImage</i> , 2022, 256, 119227.	4.2	4
135	Implicit Versus Explicit Timing – Separate or Shared Mechanisms?. <i>Journal of Cognitive Neuroscience</i> , 2022, 34, 1447-1466.	2.3	4
136	Tell me something I don't know. <i>ELife</i> , 2016, 5, e15853.	6.0	3
137	Acoustic cue selection and discrimination under degradation: Differential contributions of the inferior parietal and posterior temporal cortices. <i>NeuroImage</i> , 2015, 106, 373-381.	4.2	2
138	A Parsimonious Look at Neural Oscillations in Speech Perception. <i>Springer Handbook of Auditory Research</i> , 2022, , 81-111.	0.7	2
139	Age-related differences in the neural network interactions underlying the predictability gain. <i>Cortex</i> , 2022, 154, 269-286.	2.4	2
140	<i>Neurowissenschaften</i> . , 2018, , 140-144.		1
141	Re-visiting the electrophysiology of language. <i>Brain and Language</i> , 2015, 148, 23-24.	1.6	0
142	A quiet innovator: Peter Lakatos (1972–2021). <i>Nature Neuroscience</i> , 2021, 24, 1191-1192.	14.8	0
143	Coding of Spectral Information. , 2020, , 681-690.		0
144	What auditory cortex is waiting for. <i>Nature Human Behaviour</i> , 2022, , .	12.0	0