Robert J Zatorre

List of Publications by Year
in descending order

256	37,369	2538 96	3312 184
papers	citations	h-index	g-index

268	268	268	17867
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Voice-selective areas in human auditory cortex. Nature, 2000, 403, 309-312.	13.7	1,582
2	Structure and function of auditory cortex: music and speech. Trends in Cognitive Sciences, 2002, 6, 37-46.	4.0	1,372
3	Plasticity in gray and white: neuroimaging changes in brain structure during learning. Nature Neuroscience, 2012, 15, 528-536.	7.1	1,358
4	When the brain plays music: auditoryâ€“motor interactions in music perception and production. Nature Reviews Neuroscience, 2007, 8, 547-558.	4.9	1,212
5	Anatomically distinct dopamine release during anticipation and experience of peak emotion to music. Nature Neuroscience, 2011, 14, 257-262.	7.1	1,149
6	Spectral and Temporal Processing in Human Auditory Cortex. Cerebral Cortex, 2001, 11, 946-953.	1.6	1,041
7	Emotional responses to pleasant and unpleasant music correlate with activity in paralimbic brain regions. Nature Neuroscience, 1999, 2, 382-387.	7.1	908
8	Anatomically distinct dopamine release during anticipation and experience of peak emotion to music. Nature Neuroscience, 2011, 14, 257-262.	7.1	639
9	Functional localization and lateralization of human olfactory cortex. Nature, 1992, 360, 339-340.	13.7	636
10	Musical Training as a Framework for Brain Plasticity: Behavior, Function, and Structure. Neuron, 2012, 76, 486-502.	3.8	602
11	Listening to Musical Rhythms Recruits Motor Regions of the Brain. Cerebral Cortex, 2008, 18, 2844-2854.	1.6	598
12	Brain Organization for Music Processing. Annual Review of Psychology, 2005, 56, 89-114.	9.9	579
13	Interactions Between the Nucleus Accumbens and Auditory Cortices Predict Music Reward Value. Science, 2013, 340, 216-219.	6.0	546
14	Neurologic Sequelae of Domoic Acid Intoxication Due to the Ingestion of Contaminated Mussels. New England Journal of Medicine, 1990, 322, 1781-1787.	13.9	533
15	Time-Related Changes in Neural Systems Underlying Attention and Arousal During the Performance of an Auditory Vigilance Task. Journal of Cognitive Neuroscience, 1997, 9, 392-408.	1.1	459
16	When That Tune Runs Through Your Head: A PET Investigation of Auditory Imagery for Familiar Melodies. Cerebral Cortex, 1999, 9, 697-704.	1.6	430
17	The Rewarding Aspects of Music Listening Are Related to Degree of Emotional Arousal. PLoS ONE, 2009, 4, e7487.	1.1	417
18	Human cortical gustatory areas. NeuroReport, 1999, 10, 7-13.	0.6	416

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19	Hearing in the Mind's Ear: A PET Investigation of Musical Imagery and Perception. Journal of Cognitive Neuroscience, 1996, 8, 29-46.	1.1	414
20	Moving on Time: Brain Network for Auditory-Motor Synchronization is Modulated by Rhythm Complexity and Musical Training. Journal of Cognitive Neuroscience, 2008, 20, 226-239.	1.1	383
21	From perception to pleasure: Music and its neural substrates. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10430-10437.	3.3	379
22	Human temporal-lobe response to vocal sounds. Cognitive Brain Research, 2002, 13, 17-26.	3.3	375
23	Pitch discrimination in the early blind. Nature, 2004, 430, 309-309.	13.7	345
24	Adaptation to speakerâ€™s voice in right anterior temporal lobe. NeuroReport, 2003, 14, 2105-2109.	0.6	337
25	Neuroanatomical Correlates of Musicianship as Revealed by Cortical Thickness and Voxel-Based Morphometry. Cerebral Cortex, 2009, 19, 1583-1596.	1.6	336
26	Functional specificity in the right human auditory cortex for perceiving pitch direction. Brain, 2000, 123, 155-163.	3.7	334
27	A Functional Neuroimaging Study of Sound Localization: Visual Cortex Activity Predicts Performance in Early-Blind Individuals. PLoS Biology, 2005, 3, e27.	2.6	330
28	Neural specializations for speech and pitch: moving beyond the dichotomies. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 1087-1104.	1.8	312
29	Cortical contributions to the auditory frequency-following response revealed by MEG. Nature Communications, 2016, 7, 11070.	5.8	310
30	Where is 'where' in the human auditory cortex?. Nature Neuroscience, 2002, 5, 905-909.	7.1	308
31	Congenital Amusia. Neuron, 2002, 33, 185-191.	3.8	296
32	Pitch perception of complex tones and human temporalâ€lobe function. Journal of the Acoustical Society of America, 1988, 84, 566-572.	0.5	295
33	Mental Concerts: Musical Imagery and Auditory Cortex. Neuron, 2005, 47, 9-12.	3.8	291
34	Olfactory identification deficits in patients with focal cerebral excision. Neuropsychologia, 1988, 26, 387-400.	0.7	287
35	Early Musical Training and White-Matter Plasticity in the Corpus Callosum: Evidence for a Sensitive Period. Journal of Neuroscience, 2013, 33, 1282-1290.	1.7	282
36	Predictions and the brain: how musical sounds become rewarding. Trends in Cognitive Sciences, 2015, 19, 86-91.	4.0	277

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37	Event-Related fMRI of the Auditory Cortex. NeuroImage, 1999, 10, 417-429.	2.1	276
38	Anatomical Correlates of Learning Novel Speech Sounds. Neuron, 2002, 35, 997-1010.	3.8	267
39	â€˜Whatâ€™, â€˜whereâ€™ and â€˜howâ€™ in auditory cortex. Nature Neuroscience, 2000, 3, 965-966.	7.1	261
40	Interactions between auditory and dorsal premotor cortex during synchronization to musical rhythms. NeuroImage, 2006, 32, 1771-1781.	2.1	261
41	Modulation of Cerebral Blood Flow in the Human Auditory Cortex During Speech: Role of Motor-to-sensory Discharges. European Journal of Neuroscience, 1996, 8, 2236-2246.	1.2	260
42	Music, the food of neuroscience?. Nature, 2005, 434, 312-315.	13.7	253
43	Flavor processing. NeuroReport, 1997, 8, 3913-3917.	0.6	252
44	ROLE OF THE RIGHT TEMPORAL NEOCORTEX IN RETENTION OF PITCH IN AUDITORY SHORT-TERM MEMORY. Brain, 1991, 114, 2403-2417.	3.7	250
45	Cortical Thickness in Congenital Amusia: When Less Is Better Than More. Journal of Neuroscience, 2007, 27, 13028-13032.	1.7	249
46	Behavioral and neural correlates of perceived and imagined musical timbre. Neuropsychologia, 2004, 42, 1281-1292.	0.7	223
47	Experience-dependent neural substrates involved in vocal pitch regulation during singing. NeuroImage, 2008, 40, 1871-1887.	2.1	223
48	Neural substrates for dividing and focusing attention between simultaneous auditory and visual events. NeuroImage, 2006, 31, 1673-1681.	2.1	218
49	A Cross-Linguistic PET Study of Tone Perception in Mandarin Chinese and English Speakers. NeuroImage, 2001, 13, 646-653.	2.1	215
50	Asymmetries of the planum temporale and Heschl's gyrus: relationship to language lateralization. Brain, 2006, 129, 1164-1176.	3.7	215
51	Learning new sounds of speech: reallocation of neural substrates. NeuroImage, 2004, 21, 494-506.	2.1	214
52	Temporal lobe epilepsy caused by domoic acid intoxication: Evidence for glutamate receptor-mediated excitotoxicity in humans. Annals of Neurology, 1995, 37, 123-126.	2.8	213
53	Individual Differences in Music Reward Experiences. Music Perception, 2013, 31, 118-138.	0.5	213
54	Auditory Attention to Space and Frequency Activates Similar Cerebral Systems. NeuroImage, 1999, 10, 544-554.	2.1	211

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55	Evidence for the role of the right auditory cortex in fine pitch resolution. Neuropsychologia, 2008, 46, 632-639.	0.7	210
56	Morphometry of the amusic brain: a two-site study. Brain, 2006, 129, 2562-2570.	3.7	207
57	Attention to Simultaneous Unrelated Auditory and Visual Events: Behavioral and Neural Correlates. Cerebral Cortex, 2005, 15, 1609-1620.	1.6	205
58	Absolute pitch: a model for understanding the influence of genes and development on neural and cognitive function. Nature Neuroscience, 2003, 6, 692-695.	7.1	200
59	Cerebral organization in bilinguals. NeuroReport, 1999, 10, 2841-2845.	0.6	194
60	Relating Structure to Function: Heschl's Gyrus and Acoustic Processing. Journal of Neuroscience, 2009, 29, 61-69.	1.7	193
61	Dopamine modulates the reward experiences elicited by music. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3793-3798.	3.3	186
62	Functional MRI Evidence of an Abnormal Neural Network for Pitch Processing in Congenital Amusia. Cerebral Cortex, 2011, 21, 292-299.	1.6	185
63	Volume of Left Heschl's Gyrus and Linguistic Pitch Learning. Cerebral Cortex, 2008, 18, 828-836.	1.6	184
64	Discrimination and recognition of tonal melodies after unilateral cerebral excisions. Neuropsychologia, 1985, 23, 31-41.	0.7	178
65	Perceptual asymmetry on the dichotic fused words test and cerebral speech lateralization determined by the carotid sodium amytal test. Neuropsychologia, 1989, 27, 1207-1219.	0.7	178
66	Sensitivity to Auditory Object Features in Human Temporal Neocortex. Journal of Neuroscience, 2004, 24, 3637-3642.	1.7	177
67	Spectro-temporal modulation transfer function of single voxels in the human auditory cortex measured with high-resolution fMRI. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14611-14616.	3.3	177
68	Spatial Localization after Excision of Human Auditory Cortex. Journal of Neuroscience, 2001, 21, 6321-6328.	1.7	167
69	Selective Entrainment of Theta Oscillations in the Dorsal Stream Causally Enhances Auditory Working Memory Performance. Neuron, 2017, 94, 193-206.e5.	3.8	167
70	Musical Melody and Speech Intonation: Singing a Different Tune. PLoS Biology, 2012, 10, e1001372.	2.6	158
71	Neuronal Correlates of Perception, Imagery, and Memory for Familiar Tunes. Journal of Cognitive Neuroscience, 2012, 24, 1382-1397.	1.1	153
72	Neural Specializations for Tonal Processing. Annals of the New York Academy of Sciences, 2001, 930, 193-210.	1.8	151

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73	A Role for the Right Anterior Temporal Lobe in Taste Quality Recognition. Journal of Neuroscience, 1997, 17, 5136-5142.	1.7	146
74	Neural mechanisms involved in odor pleasantness and intensity judgments. NeuroReport, 2000, 11, 2711-2716.	0.6	143
75	Effect of unilateral temporal-lobe excision on perception and imagery of songs. Neuropsychologia, 1993, 31, 221-232.	0.7	142
76	A Role for the Intraparietal Sulcus in Transforming Musical Pitch Information. Cerebral Cortex, 2010, 20, 1350-1359.	1.6	142
77	Localization of cerebral activity during simple singing. NeuroReport, 1999, 10, 3979-3984.	0.6	137
78	Distinct sensitivity to spectrotemporal modulation supports brain asymmetry for speech and melody. Science, 2020, 367, 1043-1047.	6.0	137
79	Cortical structure predicts success in performing musical transformation judgments. NeuroImage, 2010, 53, 26-36.	2.1	136
80	Predispositions and Plasticity in Music and Speech Learning: Neural Correlates and Implications. Science, 2013, 342, 585-589.	6.0	135
81	Neural correlates of specific musical anhedonia. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7337-E7345.	3.3	133
82	Interacting Cortical and Basal Ganglia Networks Underlying Finding and Tapping to the Musical Beat. Journal of Cognitive Neuroscience, 2013, 25, 401-420.	1.1	132
83	Dissociation between Musical and Monetary Reward Responses in Specific Musical Anhedonia. Current Biology, 2014, 24, 699-704.	1.8	132
84	The morphometry of auditory cortex in the congenitally deaf measured using MRI. NeuroImage, 2003, 20, 1215-1225.	2.1	131
85	Differential occipital responses in early- and late-blind individuals during a sound-source discrimination task. NeuroImage, 2008, 40, 746-758.	2.1	129
86	Positional and surface area asymmetry of the human cerebral cortex. NeuroImage, 2009, 46, 895-903.	2.1	126
87	Right-nostril advantage for discrimination of odors. Perception & Psychophysics, 1990, 47, 526-531.	2.3	123
88	Contribution of the right temporal lobe to musical timbre discrimination. Neuropsychologia, 1994, 32, 231-240.	0.7	118
89	Mental Reversal of Imagined Melodies: A Role for the Posterior Parietal Cortex. Journal of Cognitive Neuroscience, 2010, 22, 775-789.	1.1	118
90	Recognition of dichotic melodies by musicians and nonmusicians. Neuropsychologia, 1979, 17, 607-617.	0.7	116

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91	Evolving perspectives on the sources of the frequency-following response. Nature Communications, 2019, 10, 5036.	5.8	116
92	Olfactory learning: convergent findings from lesion and brain imaging studies in humans. Brain, 2002, 125, 86-101.	3.7	114
93	Speech-in-noise perception in musicians: A review. Hearing Research, 2017, 352, 49-69.	0.9	113
94	Neural networks involved in voluntary and involuntary vocal pitch regulation in experienced singers. Neuropsychologia, 2010, 48, 607-618.	0.7	109
95	The Role of Auditory and Premotor Cortex in Sensorimotor Transformations. Annals of the New York Academy of Sciences, 2009, 1169, 15-34.	1.8	107
96	Voice perception in blind persons: A functional magnetic resonance imaging study. Neuropsychologia, 2009, 47, 2967-2974.	0.7	105
97	Predictability and Uncertainty in the Pleasure of Music: A Reward for Learning?. Journal of Neuroscience, 2019, 39, 9397-9409.	1.7	105
98	Left-hemisphere specialization for the processing of acoustic transients. NeuroReport, 1997, 8, 1761-1765.	0.6	104
99	Melodic and harmonic discrimination following unilateral cerebral excision. Brain and Cognition, 1988, 7, 348-360.	0.8	100
100	Cortical Correlates of the Auditory Frequency-Following and Onset Responses: EEG and fMRI Evidence. Journal of Neuroscience, 2017, 37, 830-838.	1.7	98
101	Influence of tonal context and timbral variation on perception of pitch. Perception & Psychophysics, 2002, 64, 198-207.	2.3	97
102	Individual differences in the acquisition of second language phonology. Brain and Language, 2009, 109, 55-67.	0.8	96
103	Neuroanatomical correlates of olfactory performance. Experimental Brain Research, 2010, 201, 1-11.	0.7	96
104	Working Memory in Another Dimension: Functional Imaging of Human Olfactory Working Memory. NeuroImage, 2001, 14, 650-660.	2.1	95
105	Bilingual brain organization: A functional magnetic resonance adaptation study. NeuroImage, 2006, 31, 366-375.	2.1	95
106	Musical training sharpens and bonds ears and tongue to hear speech better. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13579-13584.	3.3	94
107	Music Lexical Networks. Annals of the New York Academy of Sciences, 2009, 1169, 256-265.	1.8	92
108	Musical pleasure and reward: mechanisms and dysfunction. Annals of the New York Academy of Sciences, 2015, 1337, 202-211.	1.8	91

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109	Familiarity mediates the relationship between emotional arousal and pleasure during music listening. Frontiers in Human Neuroscience, 2013, 7, 534.	1.0	90
110	Modulating musical reward sensitivity up and down with transcranial magnetic stimulation. Nature Human Behaviour, 2018, 2, 27-32.	6.2	90
111	Early Musical Training Is Linked to Gray Matter Structure in the Ventral Premotor Cortex and Auditoryâ€“Motor Rhythm Synchronization Performance. Journal of Cognitive Neuroscience, 2014, 26, 755-767.	1.1	89
112	Differences in Gray Matter between Musicians and Nonmusicians. Annals of the New York Academy of Sciences, 2005, 1060, 395-399.	1.8	88
113	Musical reward prediction errors engage the nucleus accumbens and motivate learning. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3310-3315.	3.3	88
114	Constraints on the selection of auditory information.. Journal of Experimental Psychology: Human Perception and Performance, 1998, 24, 66-79.	0.7	85
115	Music and the Brain. Annals of the New York Academy of Sciences, 2003, 999, 4-14.	1.8	84
116	The neuronal substrates of human olfactory based kin recognition. Human Brain Mapping, 2009, 30, 2571-2580.	1.9	82
117	Asymmetric Interhemispheric Transfer in the Auditory Network: Evidence from TMS, Resting-State fMRI, and Diffusion Imaging. Journal of Neuroscience, 2015, 35, 14602-14611.	1.7	82
118	Multiple coding strategies in the retention of musical tones by possessors of absolute pitch. Memory and Cognition, 1989, 17, 582-589.	0.9	81
119	Abstract Encoding of Auditory Objects in Cortical Activity Patterns. Cerebral Cortex, 2013, 23, 2025-2037.	1.6	81
120	The Role of the Dorsolateral Prefrontal Cortex in Bimodal Divided Attention: Two Transcranial Magnetic Stimulation Studies. Journal of Cognitive Neuroscience, 2007, 19, 907-920.	1.1	80
121	Dissociation of Neural Networks for Predisposition and for Training-Related Plasticity in Auditory-Motor Learning. Cerebral Cortex, 2016, 26, 3125-3134.	1.6	79
122	Structural brain changes linked to delayed first language acquisition in congenitally deaf individuals. NeuroImage, 2013, 66, 42-49.	2.1	78
123	Depth electrode recordings show double dissociation between pitch processing in lateral Heschlâ€™s gyrus and sound onset processing in medial Heschlâ€™s gyrus. Experimental Brain Research, 2008, 187, 97-105.	0.7	77
124	Learning and retention of melodic and verbal information after unilateral temporal lobectomy. Neuropsychologia, 1992, 30, 815-826.	0.7	76
125	Experience-Dependent Modulation of Feedback Integration during Singing: Role of the Right Anterior Insula. Journal of Neuroscience, 2013, 33, 6070-6080.	1.7	76
126	Organization and Reorganization of Sensory-Deprived Cortex. Current Biology, 2012, 22, R168-R173.	1.8	74

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127	Identification, discrimination, and selective adaptation of simultaneous musical intervals. Perception & Psychophysics, 1979, 26, 384-395.	2.3	73
128	Musical Perception and Cerebral Function: A Critical Review. Music Perception, 1984, 2, 196-221.	0.5	72
129	Language Localization with Activation Positron Emission Tomography Scanning. Neurosurgery, 1992, 31, 369-372.	0.6	70
130	Word and nonword repetition in bilingual subjects: A PET study. Human Brain Mapping, 2006, 27, 153-161.	1.9	69
131	Modulation of Functional Connectivity in Auditoryâ€“Motor Networks in Musicians Compared with Nonmusicians. Cerebral Cortex, 2017, 27, bhw120.	1.6	69
132	Neural Correlates of Early Sound Encoding and their Relationship to Speech-in-Noise Perception. Frontiers in Neuroscience, 2017, 11, 479.	1.4	67
133	Common parietal activation in musical mental transformations across pitch and time. NeuroImage, 2013, 75, 27-35.	2.1	65
134	On the representation of multiple languages in the brain: Old problems and new directions. Brain and Language, 1989, 36, 127-147.	0.8	64
135	A Distribution of Absolute Pitch Ability as Revealed by Computerized Testing. Music Perception, 2009, 27, 89-101.	0.5	63
136	Expert music performance: cognitive, neural, and developmental bases. Progress in Brain Research, 2015, 217, 57-86.	0.9	60
137	Cerebral lateralization in bilinguals: Methodological issues. Brain and Language, 1982, 15, 40-54.	0.8	59
138	Right temporal cortex is critical for utilization of melodic contextual cues in a pitch constancy task. Brain, 2004, 127, 1616-1625.	3.7	58
139	Conditional Associative Memory for Musical Stimuli in Nonmusicians: Implications for Absolute Pitch. Journal of Neuroscience, 2005, 25, 7718-7723.	1.7	57
140	Generalized learning of visual-to-auditory substitution in sighted individuals. Brain Research, 2008, 1242, 263-275.	1.1	57
141	Tactileâ€“Auditory Shape Learning Engages the Lateral Occipital Complex. Journal of Neuroscience, 2011, 31, 7848-7856.	1.7	57
142	Reorganization of Auditory Cortex in Early-deaf People: Functional Connectivity and Relationship to Hearing Aid Use. Journal of Cognitive Neuroscience, 2015, 27, 150-163.	1.1	57
143	White Matter Microstructure Reflects Individual Differences in Music Reward Sensitivity. Journal of Neuroscience, 2019, 39, 5018-5027.	1.7	57
144	Neural interactions that give rise to musical pleasure.. Psychology of Aesthetics, Creativity, and the Arts, 2013, 7, 62-75.	1.0	56

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145	A positron emission tomography study during auditory localization by late-onset blind individuals. NeuroReport, 2006, 17, 383-388.	0.6	55
146	Crossmodal recruitment of primary visual cortex following brief exposure to bimodal audiovisual stimuli. Neuropsychologia, 2010, 48, 591-600.	0.7	55
147	A role for the right superior temporal sulcus in categorical perception of musical chords. Neuropsychologia, 2011, 49, 878-887.	0.7	55
148	Evidence for both compensatory plastic and disuse atrophy-related neuroanatomical changes in the blind. Brain, 2014, 137, 1224-1240.	3.7	54
149	Enhancement of Visual Motion Detection Thresholds in Early Deaf People. PLoS ONE, 2014, 9, e90498.	1.1	54
150	Network-Based Asymmetry of the Human Auditory System. Cerebral Cortex, 2018, 28, 2655-2664.	1.6	51
151	Neural Substrates Governing Audiovocal Integration for Vocal Pitch Regulation in Singing. Annals of the New York Academy of Sciences, 2005, 1060, 404-408.	1.8	49
152	Deficits of musical timbre perception after unilateral temporal-lobe lesion revealed with multidimensional scaling. Brain, 2002, 125, 511-523.	3.7	47
153	Experience-dependent modulation of right anterior insula and sensorimotor regions as a function of noise-masked auditory feedback in singers and nonsingers. NeuroImage, 2017, 147, 97-110.	2.1	47
154	Trade-Off in the Sound Localization Abilities of Early Blind Individuals between the Horizontal and Vertical Planes. Journal of Neuroscience, 2015, 35, 6051-6056.	1.7	46
155	Repetition Suppression in Auditoryâ€“Motor Regions to Pitch and Temporal Structure in Music. Journal of Cognitive Neuroscience, 2013, 25, 313-328.	1.1	45
156	Specialized neural dynamics for verbal and tonal memory: fMRI evidence in congenital amusia. Human Brain Mapping, 2019, 40, 855-867.	1.9	44
157	An acoustical study of vocal pitch matching in congenital amusia. Journal of the Acoustical Society of America, 2010, 127, 504-512.	0.5	43
158	Relevance of Spectral Cues for Auditory Spatial Processing in the Occipital Cortex of the Blind. Frontiers in Psychology, 2011, 2, 48.	1.1	43
159	Modulation of Auditory Cortex Response to Pitch Variation Following Training with Microtonal Melodies. Frontiers in Psychology, 2012, 3, 544.	1.1	43
160	The Right Hemisphere Planum Temporale Supports Enhanced Visual Motion Detection Ability in Deaf People: Evidence from Cortical Thickness. Neural Plasticity, 2016, 2016, 1-9.	1.0	43
161	A right-ear advantage for dichotic listening in bilingual children. Brain and Language, 1981, 13, 389-396.	0.8	42
162	Laterality differences for word identification in bilinguals. Brain and Language, 1978, 6, 158-167.	0.8	41

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163	Frequency Selectivity of Voxel-by-Voxel Functional Connectivity in Human Auditory Cortex. Cerebral Cortex, 2016, 26, 211-224.	1.6	41
164	Preserved auditory spatial localization following cerebral hemispherectomy. Brain, 1995, 118, 879-889.	3.7	40
165	Obligatory role of the LIFG in synonym generation. NeuroReport, 1997, 8, 3275-3278.	0.6	38
166	Thereâ€™s more to auditory cortex than meets the ear. Hearing Research, 2007, 229, 24-30.	0.9	37
167	Mapping interhemispheric connectivity using functional MRI after transcranial magnetic stimulation on the human auditory cortex. NeuroImage, 2013, 79, 162-171.	2.1	37
168	Musicians at the Cocktail Party: Neural Substrates of Musical Training During Selective Listening in Multispeaker Situations. Cerebral Cortex, 2019, 29, 3253-3265.	1.6	37
169	Distinct electrophysiological indices of maintenance in auditory and visual short-term memory. Neuropsychologia, 2013, 51, 2939-2952.	0.7	36
170	Subcortical and cortical correlates of pitch discrimination: Evidence for two levels of neuroplasticity in musicians. NeuroImage, 2017, 163, 398-412.	2.1	36
171	On the Nature of Early Music Training and Absolute Pitch: A Reply to Brown, Sachs, Cammuso, and Folstein. Music Perception, 2003, 21, 105-110.	0.5	35
172	NEUROSCIENCE: Mental Models and Musical Minds. Science, 2002, 298, 2138-2139.	6.0	34
173	The influence of vision on sound localization abilities in both the horizontal and vertical planes. Frontiers in Psychology, 2013, 4, 932.	1.1	34
174	Heterochrony and Cross-Species Intersensory Matching by Infant Vervet Monkeys. PLoS ONE, 2009, 4, e4302.	1.1	33
175	Early visual deprivation changes cortical anatomical covariance in dorsal-stream structures. NeuroImage, 2015, 108, 194-202.	2.1	33
176	Individual Differences in the Frequency-Following Response: Relation to Pitch Perception. PLoS ONE, 2016, 11, e0152374.	1.1	33
177	Common and distinct neural correlates of music and food-induced pleasure: A coordinate-based meta-analysis of neuroimaging studies. Neuroscience and Biobehavioral Reviews, 2021, 123, 61-71.	2.9	33
178	Functional PET Scanning in the Preoperative Assessment of Cerebral Arteriovenous Malformations. Stereotactic and Functional Neurosurgery, 1995, 65, 60-64.	0.8	32
179	Brain activity is related to individual differences in the number of items stored in auditory short-term memory for pitch: Evidence from magnetoencephalography. NeuroImage, 2014, 94, 96-106.	2.1	32
180	Neural network retuning and neural predictors of learning success associated with cello training. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6056-E6064.	3.3	31

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181	Functional and Structural Imaging of the Human Auditory System. , 2000, , 365-402.		29
182	Partially Overlapping Brain Networks for Singing and Cello Playing. Frontiers in Neuroscience, 2018, 12, 351.	1.4	28
183	Monoamine activity correlates with psychometric deficits in Korsakoff's disease. Behavioural Brain Research, 1985, 15, 247-254.	1.2	27
184	Interhemispheric Connectivity Influences the Degree of Modulation of TMS-Induced Effects during Auditory Processing. Frontiers in Psychology, 2011, 2, 161.	1.1	26
185	The impact of visual art and emotional sounds in specific musical anhedonia. Progress in Brain Research, 2018, 237, 399-413.	0.9	26
186	Impaired stereoscopic detection thresholds after left or right temporal lobectomy. Neuropsychologia, 1988, 26, 547-554.	0.7	25
187	Intact Absolute Pitch Ability After Left Temporal Lobectomy. Cortex, 1989, 25, 567-580.	1.1	25
188	Polarity-specific transcranial direct current stimulation disrupts auditory pitch learning. Frontiers in Neuroscience, 2015, 9, 174.	1.4	25
189	Sound analysis in auditory cortex. Trends in Neurosciences, 2003, 26, 229-230.	4.2	24
190	Representations of Invariant Musical Categories Are Decodable by Pattern Analysis of Locally Distributed BOLD Responses in Superior Temporal and Intraparietal Sulci. Cerebral Cortex, 2015, 25, 1947-1957.	1.6	24
191	Practice makes plasticity. Nature Neuroscience, 2018, 21, 1645-1646.	7.1	24
192	The absolute pitch mind continues to reveal itself. Journal of Biology, 2009, 8, 75.	2.7	23
193	Driving working memory with frequencyâ€tuned noninvasive brain stimulation. Annals of the New York Academy of Sciences, 2018, 1423, 126-137.	1.8	23
194	Engagement in Music-Related Activities During the COVID-19 Pandemic as a Mirror of Individual Differences in Musical Reward and Coping Strategies. Frontiers in Psychology, 2021, 12, 673772.	1.1	23
195	Category-boundary effects and speeded sorting with a harmonic musical-interval continuum: Evidence for dual processing.. Journal of Experimental Psychology: Human Perception and Performance, 1983, 9, 739-752.	0.7	22
196	Feeling the Beat: Bouncing Synchronization to Vibrotactile Music in Hearing and Early Deaf People. Frontiers in Neuroscience, 2017, 11, 507.	1.4	22
197	Vocal Accuracy and Neural Plasticity Following Micromelody-Discrimination Training. PLoS ONE, 2010, 5, e11181.	1.1	22
198	Semantic encoding deficits in a case of traumatic amnesia. Brain and Cognition, 1983, 2, 331-345.	0.8	21

#	Article	IF	Citations
199	Children Who Can't Smell the Coffee: Isolated Congenital Anosmia. Journal of Child Neurology, 1998, 13, 168-172.	0.7	21
200	Oscillatory Entrainment of the Frequency-following Response in Auditory Cortical and Subcortical Structures. Journal of Neuroscience, 2021, 41, 4073-4087.	1.7	20
201	Supramodality of neural entrainment: Rhythmic visual stimulation causally enhances auditory working memory performance. Science Advances, 2022, 8, eabj9782.	4.7	20
202	Do You See What I'm Saying? Interactions between Auditory and Visual Cortices in Cochlear Implant Users. Neuron, 2001, 31, 13-14.	3.8	19
203	Loadâ€dependent Brain Activity Related to Acoustic Shortâ€term Memory for Pitch. Annals of the New York Academy of Sciences, 2009, 1169, 273-277.	1.8	19
204	White matter structure in the right planum temporale region correlates with visual motion detection thresholds in deaf people. Hearing Research, 2017, 343, 64-71.	0.9	19
205	Right Structural and Functional Reorganization in Four-Year-Old Children with Perinatal Arterial Ischemic Stroke Predict Language Production. ENeuro, 2019, 6, ENEURO.0447-18.2019.	0.9	19
206	Can you hear shapes you touch?. Experimental Brain Research, 2010, 202, 747-754.	0.7	18
207	Unraveling the Temporal Dynamics of Reward Signals in Music-Induced Pleasure with TMS. Journal of Neuroscience, 2021, 41, 3889-3899.	1.7	18
208	Cortical Processing of Music. Springer Handbook of Auditory Research, 2012, , 261-294.	0.3	18
209	Measuring phoneme boundaries four ways. Journal of the Acoustical Society of America, 1980, 68, 431-439.	0.5	17
210	Decoding Task-Related Functional Brain Imaging Data to Identify Developmental Disorders: The Case of Congenital Amusia. Frontiers in Neuroscience, 2019, 13, 1165.	1.4	17
211	Dopamine modulations of rewardâ€driven music memory consolidation. Annals of the New York Academy of Sciences, 2021, 1502, 85-98.	1.8	17
212	Anatomical correlates of dynamic auditory processing: Relationship to literacy during early adolescence. NeuroImage, 2012, 60, 1287-1295.	2.1	16
213	Beyond auditory cortex: working with musical thoughts. Annals of the New York Academy of Sciences, 2012, 1252, 222-228.	1.8	16
214	Automatic domain-general processing of sound source identity in the left posterior middle frontal gyrus. Cortex, 2014, 58, 170-185.	1.1	15
215	Testing the Role of Dorsal Premotor Cortex in Auditory-Motor Association Learning Using Transcranical Magnetic Stimulation (TMS). PLoS ONE, 2016, 11, e0163380.	1.1	15
216	Neurobiology: Sounding the Alarm. Current Biology, 2015, 25, R805-R806.	1.8	14

#	Article	IF	Citations
217	Inhibitory effect of tDCS on auditory evoked response: Simultaneous MEG-tDCS reveals causal role of right auditory cortex in pitch learning. NeuroImage, 2021, 233, 117915.	2.1	13
218	Finding the missing fundamental. Nature, 2005, 436, 1093-1094.	13.7	12
219	Semantic Elaboration in Auditory and Visual Spatial Memory. Frontiers in Psychology, 2010, 1, 228.	1.1	12
220	The Music-In-Noise Task (MINT): A Tool for Dissecting Complex Auditory Perception. Frontiers in Neuroscience, 2019, 13, 199.	1.4	12
221	The Microstructural Plasticity of the Arcuate Fasciculus Undergirds Improved Speech in Noise Perception in Musicians. Cerebral Cortex, 2021, 31, 3975-3985.	1.6	12
222	Recognition of Interleaved Melodies. Annals of the New York Academy of Sciences, 2003, 999, 152-154.	1.8	11
223	Mapping the After-effects of Theta Burst Stimulation on the Human Auditory Cortex with Functional Imaging. Journal of Visualized Experiments, 2012, , e3985.	0.2	11
224	MEG Intersubject Phase Locking of Stimulus-Driven Activity during Naturalistic Speech Listening Correlates with Musical Training. Journal of Neuroscience, 2021, 41, 2713-2722.	1.7	11
225	Brain Imaging Studies of Musical Perception and Musical Imagery. Journal of New Music Research, 1999, 28, 229-236.	0.6	10
226	Mapping Specific Mental Content during Musical Imagery. Cerebral Cortex, 2021, 31, 3622-3640.	1.6	10
227	Tapping in Synchrony to Auditory Rhythms: Effect of Temporal Structure on Behavior and Neural Activity. Annals of the New York Academy of Sciences, 2005, 1060, 400-403.	1.8	9
228	Assessing Top-Down and Bottom-Up Contributions to Auditory Stream Segregation and Integration With Polyphonic Music. Frontiers in Neuroscience, 2018, 12, 121.	1.4	9
229	Cortical Speech and Music Processes Revealed by Functional Neuroimaging. , 2011, , 657-677.		9
230	Feel What You Say: An Auditory Effect on Somatosensory Perception. PLoS ONE, 2011, 6, e22829.	1.1	9
231	Early musical training shapes cortico-cerebellar structural covariation. Brain Structure and Function, 2022, 227, 407-419.	1.2	9
232	Insights Into Auditory Cortex Dynamics From Non-invasive Brain Stimulation. Frontiers in Neuroscience, 2018, 12, 469.	1.4	8
233	Neuroanatomical correlates of musical transposition in adolescents: a longitudinal approach. Frontiers in Systems Neuroscience, 2013, 7, 113.	1.2	5
234	Brain and art. Frontiers in Human Neuroscience, 2014, 8, 465.	1.0	5

#	Article	IF	Citations
235	Rhythm and time in the premotor cortex. PLoS Biology, 2019, 17, e3000293.	2.6	5
236	Studies of place and manner of articulation in syllableâ€final position. Journal of the Acoustical Society of America, 1979, 66, 1207-1210.	0.5	4
237	How do our brains analyze temporal structure in sound?. Nature Neuroscience, 1998, 1, 343-345.	7.1	4
238	Amazon music. Nature, 2016, 535, 496-497.	13.7	4
239	Effector-independent brain network for auditory-motor integration: fMRI evidence from singing and cello playing. NeuroImage, 2021, 237, 118128.	2.1	4
240	Modulating Cortical Instrument Representations During Auditory Stream Segregation and Integration With Polyphonic Music. Frontiers in Neuroscience, 2021, 15, 635937.	1.4	4
241	Effects of temporal neocortical excisions on musical processing. Contemporary Music Review, 1989, 4, 265-277.	0.3	3
242	Complex cognitive functions underlie aesthetic emotions. Physics of Life Reviews, 2013, 10, 279-280.	1.5	3
243	Musically Speaking. Neuron, 2008, 60, 532-533.	3.8	2
244	The neurobiological basis of musical expectations. , 2012, , .		2
245	Editors' introduction to Hearing Research special issue: Music: A window into the hearing brain. Hearing Research, 2014, 308, 1.	0.9	2
246	The Neurobiology of Musical Expectations from Perception to Emotion. , 2016, , .		2
247	Brenda Milner and the origins of cognitive neuroscience. Current Biology, 2018, 28, R638-R639.	1.8	2
248	Reply to de Fleurian et al.: Toward a fuller understanding of reward prediction errors and their role in musical pleasure. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20815-20816.	3.3	2
249	Auditory Cortex Processing Streams: Where Are They and What Do They Do?. , 2005, , 277-290.		2
250	Training allows switching from limited-capacity manipulations to large-capacity perceptual processing. Cerebral Cortex, 2023, 33, 1826-1842.	1.6	2
251	HUMAN OLFACTORY DISCRIMINATION AFTER UNILATERAL FRONTAL OR TEMPORAL LOBECTOMY. Brain, 0, , .	3.7	1
252	The Reward of Musical Emotions and Expectations. , 2020, , 402-415.		1

#	Article	IF	Citations
253	Music, Language, Speech, and Brain.. Language and Speech, 1994, 37, 61-66.	0.6	0
254	Reminiscences of the First Olfactory Neuroimaging Study on the 20th Anniversary of its Publication. Chemosensory Perception, 2012, 5, 2-3.	0.7	0
255	The effect of blindfolding on sound localization. Multisensory Research, 2013, 26, 228-229.	0.6	0
256	Cerebral Organization in a Right-handed Trilingual Patient with Right-hemisphere Speech: a Positron Emission Tomography Study. Neurocase, 2002, 8, 369-375.	0.2	0