Josef P Rauschecker

List of Publications by Year
in descending order

123	13,697	36303 51	24982 109
papers	citations	h-index	g-index

130	130	130	7684
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The blinking eye as a window into tinnitus: A new animal model of tinnitus in the macaque. Hearing Research, 2022, 420, 108517.	2.0	2
2	Effective connectivity in the default mode network is distinctively disrupted in Alzheimer's diseaseâ€"A simultaneous restingâ€state FDGâ€PET/fMRI study. Human Brain Mapping, 2021, 42, 4134-4143.	3.6	43
3	Tinnitus and tinnitus disorder: Theoretical and operational definitions (an international) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 6	1.4	150
4	Inter-subject Similarity of Brain Activity in Expert Musicians After Multimodal Learning: A Behavioral and Neuroimaging Study on Learning to Play a Piano Sonata. Neuroscience, 2020, 441, 102-116.	2.3	19
5	Auditory representation of learned sound sequences in motor regions of the macaque brain. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15242-15252.	7.1	28
6	The Auditory Cortex of Primates Including Man With Reference to Speech. , 2020, , 791-811.		2
7	Effects of age and left hemisphere lesions on audiovisual integration of speech. Brain and Language, 2020, 206, 104812.	1.6	0
8	Cortical mechanisms of spatial hearing. Nature Reviews Neuroscience, 2019, 20, 609-623.	10.2	51
9	Overlapping Anatomical Networks Convey Cross-Modal Suppression in the Sighted and Coactivation of â€œVisualâ€•and Auditory Cortex in the Blind. Cerebral Cortex, 2019, 29, 4863-4876.	2.9	7
10	Training Humans to Categorize Monkey Calls: Auditory Feature- and Category-Selective Neural Tuning Changes. Neuron, 2018, 98, 405-416.e4.	8.1	44
11	Where, When, and How: Are they all sensorimotor? Towards a unified view of the dorsal pathway in vision and audition. Cortex, 2018, 98, 262-268.	2.4	98
12	Distinct brain areas process novel and repeating tone sequences. Brain and Language, 2018, 187, 104-114.	1.6	11
13	Where did language come from? Precursor mechanisms in nonhuman primates. Current Opinion in Behavioral Sciences, 2018, 21, 195-204.	3.9	26
14	Active Sound Localization Sharpens Spatial Tuning in Human Primary Auditory Cortex. Journal of Neuroscience, 2018, 38, 8574-8587.	3.6	28
15	Sensory Deprivation â˜†. , 2018, , .		0
16	Chronometry on Spike-LFP Responses Reveals the Functional Neural Circuitry of Early Auditory Cortex Underlying Sound Processing and Discrimination. ENeuro, 2018, 5, ENEURO.0420-17.2018.	1.9	3
17	Meta-analytic connectivity modeling of the human superior temporal sulcus. Brain Structure and Function, 2017, 222, 267-285.	2.3	26
18	Widespread and Opponent fMRI Signals Represent Sound Location in Macaque Auditory Cortex. Neuron, 2017, 93, 971-983.e4.	8.1	48

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19	Localization of complex sounds is modulated by behavioral relevance and sound category. Journal of the Acoustical Society of America, 2017, 142, 1757-1773.	1.1	9
20	Primate Audition: Reception, Perception, and Ecology. Springer Handbook of Auditory Research, 2017, , 47-77.	0.7	7
21	Does Tinnitus Depend on Time-of-Day? An Ecological Momentary Assessment Study with the â€œTrackYourTinnitusâ€•Application. Frontiers in Aging Neuroscience, 2017, 9, 253.	3.4	58
22	Pathways and Streams in the Auditory Cortex. , 2016, , 287-298.		3
23	Convergent evidence for the causal involvement ofÂanterior superior temporal gyrus in auditory single-word comprehension. Cortex, 2016, 77, 164-166.	2.4	21
24	Intrinsic network activity in tinnitus investigated using functional MRI. Human Brain Mapping, 2016, 37, 2717-2735.	3.6	103
25	Functional Topography of Human Auditory Cortex. Journal of Neuroscience, 2016, 36, 1416-1428.	3.6	91
26	Early-latency categorical speech sound representations in the left inferior frontal gyrus. NeuroImage, 2016, 129, 214-223.	4.2	40
27	Metabolic connectivity mapping reveals effective connectivity in the resting human brain. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 428-433.	7.1	84
28	Auditoryâ€“limbic interactions in chronic tinnitus: Challenges for neuroimaging research. Hearing Research, 2016, 334, 49-57.	2.0	100
29	Functional MRI of the vocalization-processing network in the macaque brain. Frontiers in Neuroscience, 2015, 9, 113.	2.8	49
30	Speech Processing, The Cortical Organization of. , 2015, , 243-249.		0
31	Human Language, Evolution of. , 2015, , 323-328.		0
32	Neurobiological roots of language in primate audition: common computational properties. Trends in Cognitive Sciences, 2015, 19, 142-150.	7.8	225
33	Different forms of effective connectivity in primate frontotemporal pathways. Nature Communications, 2015, 6, 6000.	12.8	35
34	Auditory and visual cortex of primates: a comparison of two sensory systems. European Journal of Neuroscience, 2015, 41, 579-585.	2.6	38
35	Relationship Between Cortical Thickness and Functional Activation in the Early Blind. Cerebral Cortex, 2015, 25, 2035-2048.	2.9	86
36	Response to Skeide and Friederici: the myth of the uniquely human â€˜directâ€™ dorsal pathway. Trends in Cognitive Sciences, 2015, 19, 484-485.	7.8	9

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37	Frontostriatal Gating of Tinnitus and Chronic Pain. Trends in Cognitive Sciences, 2015, 19, 567-578.	7.8	189
38	Processing of harmonics in the lateral belt of macaque auditory cortex. Frontiers in Neuroscience, 2014, 8, 204.	2.8	27
39	Is there a tape recorder in your head? How the brain stores and retrieves musical melodies. Frontiers in Systems Neuroscience, 2014, 8, 149.	2.5	21
40	Distinct cortical locations for integration of audiovisual speech and the McGurk effect. Frontiers in Psychology, 2014, 5, 534.	2.1	49
41	Are you listening? Brain activation associated with sustained nonspatial auditory attention in the presence and absence of stimulation. Human Brain Mapping, 2014, 35, 2233-2252.	3.6	24
42	Diffusion Imaging of Auditory and Auditory-Limbic Connectivity in Tinnitus: Preliminary Evidence and Methodological Challenges. Neural Plasticity, 2014, 2014, 1-16.	2.2	50
43	Selectivity for space and time in early areas of the auditory dorsal stream in the rhesus monkey. Journal of Neurophysiology, 2014, 111, 1671-1685.	1.8	41
44	Cortical plasticity and preserved function in early blindness. Neuroscience and Biobehavioral Reviews, 2014, 41, 53-63.	6.1	129
45	An ALE metaâ€analysis on the audiovisual integration of speech signals. Human Brain Mapping, 2014, 35, 5587-5605.	3.6	33
46	Wernickeâ€™s area revisited: Parallel streams and word processing. Brain and Language, 2013, 127, 181-191.	1.6	128
47	Evidence for distinct human auditory cortex regions for sound location versus identity processing. Nature Communications, 2013, 4, 2585.	12.8	51
48	Analogues of simple and complex cells in rhesus monkey auditory cortex. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7892-7897.	7.1	40
49	Automatic Phoneme Category Selectivity in the Dorsal Auditory Stream. Journal of Neuroscience, 2013, 33, 5208-5215.	3.6	91
50	Processing streams in the early blind. Multisensory Research, 2013, 26, 3.	1.1	1
51	Processing Streams in Auditory Cortex. Springer Handbook of Auditory Research, 2013, , 7-43.	0.7	4
52	Brain networks for the encoding of emotions in communication sounds of human and nonhuman primates. , 2013, , 49-60.		2
53	Sound-identity processing in early areas of the auditory ventral stream in the macaque. Journal of Neurophysiology, 2012, 107, 1123-1141.	1.8	55
54	Phoneme and word recognition in the auditory ventral stream. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E505-14.	7.1	393

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55	Ventral and dorsal streams in the evolution of speech and language. Frontiers in Evolutionary Neuroscience, 2012, 4, 7.	3.7	108
56	Functional MRI evidence for a role of ventral prefrontal cortex in tinnitus. Brain Research, 2012, 1485, 22-39.	2.2	75
57	Cortico-limbic morphology separates tinnitus from tinnitus distress. Frontiers in Systems Neuroscience, 2012, 6, 21.	2.5	131
58	An expanded role for the dorsal auditory pathway in sensorimotor control and integration. Hearing Research, 2011, 271, 16-25.	2.0	235
59	Dysregulation of Limbic and Auditory Networks in Tinnitus. Neuron, 2011, 69, 33-43.	8.1	380
60	Functional Correlates of the Anterolateral Processing Hierarchy in Human Auditory Cortex. Journal of Neuroscience, 2011, 31, 9345-9352.	3.6	87
61	Auditory Cortical Organization: Evidence for Functional Streams. , 2011, , 99-116.		11
62	Segregation of Vowels and Consonants in Human Auditory Cortex: Evidence for Distributed Hierarchical Organization. Frontiers in Psychology, 2010, 1, 232.	2.1	56
63	Lipreading and Covert Speech Production Similarly Modulate Human Auditory-Cortex Responses to Pure Tones. Journal of Neuroscience, 2010, 30, 1314-1321.	3.6	48
64	Tuning Out the Noise: Limbic-Auditory Interactions in Tinnitus. Neuron, 2010, 66, 819-826.	8.1	630
65	Preserved Functional Specialization for Spatial Processing in the Middle Occipital Gyrus of the Early Blind. Neuron, 2010, 68, 138-148.	8.1	256
66	Cortical Representation of Natural Complex Sounds: Effects of Acoustic Features and Auditory Object Category. Journal of Neuroscience, 2010, 30, 7604-7612.	3.6	323
67	Brain Activation during Anticipation of Sound Sequences. Journal of Neuroscience, 2009, 29, 2477-2485.	3.6	171
68	Multisensory Integration of Sounds and Vibrotactile Stimuli in Processing Streams for â€œWhatâ€•and â€œWhereâ€• Journal of Neuroscience, 2009, 29, 10950-10960.	3.6	103
69	Functional Specialization of Medial Auditory Belt Cortex in the Alert Rhesus Monkey. Journal of Neurophysiology, 2009, 102, 1606-1622.	1.8	112
70	Maps and streams in the auditory cortex: nonhuman primates illuminate human speech processing. Nature Neuroscience, 2009, 12, 718-724.	14.8	1,462
71	Multiple Stages of Auditory Speech Perception Reflected in Event-Related fMRI. Cerebral Cortex, 2007, 17, 2251-2257.	2.9	145
72	The role of auditory cortex in the formation of auditory streams. Hearing Research, 2007, 229, 116-131.	2.0	165

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73	Auditory cortex of bats and primates: managing species-specific calls for social communication. Frontiers in Bioscience - Landmark, 2007, 12, 4621.	3.0	57
74	Cortical Processing Of Auditory Space: Pathways And Plasticity. , 2007, , 389-410.		5
75	Vowel sound extraction in anterior superior temporal cortex. Human Brain Mapping, 2006, 27, 562-571.	3.6	163
76	Adaptive plasticity and sensory substitution in the cerebral cortex. , 2006, , 361-376.		2
77	Neural Encoding and Retrieval of Sound Sequences. Annals of the New York Academy of Sciences, 2005, 1060, 125-135.	3.8	30
78	Vocal gestures and auditory objects. Behavioral and Brain Sciences, 2005, 28, 143-144.	0.7	10
79	Impaired Cross-Modal Inhibition in Alzheimer Disease. PLoS Medicine, 2005, 2, e288.	8.4	37
80	Perceptual Organization of Tone Sequences in the Auditory Cortex of Awake Macaques. Neuron, 2005, 48, 139-148.	8.1	266
81	Processing of Frequency-Modulated Sounds in the Lateral Auditory Belt Cortex of the Rhesus Monkey. Journal of Neurophysiology, 2004, 92, 2993-3013.	1.8	155
82	Processing of Band-Passed Noise in the Lateral Auditory Belt Cortex of the Rhesus Monkey. Journal of Neurophysiology, 2004, 91, 2578-2589.	1.8	180
83	Cytoarchitecture and thalamic afferents of the sylvian and composite posterior gyri of the canine temporal cortex. Brain Research, 2004, 1023, 279-301.	2.2	6
84	Processing of â€œwhatâ€•and â€œwhereâ€•in auditory association cortex. International Congress Series, 2003, 1250, 37-51.	0.2	9
85	Functional Organization and Plasticity of Auditory Cortex. , 2003, , 356-365.		4
86	Cortical map plasticity in animals and humans. Progress in Brain Research, 2002, 138, 73-88.	1.4	30
87	Perception of Sound-Source Motion by the Human Brain. Neuron, 2002, 34, 139-148.	8.1	265
88	Sensory Deprivation. , 2002, , 277-287.		2
89	Functional Specialization in Rhesus Monkey Auditory Cortex. Science, 2001, 292, 290-293.	12.6	694
90	Cortical Plasticity and Music. Annals of the New York Academy of Sciences, 2001, 930, 330-336.	3.8	53

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91	Reply to 'â€˜Whatâ€™, â€˜whereâ€™ and â€˜howâ€™ in auditory cortex'. Nature Neuroscience, 2000, 3, 966-966.	14.8	38
92	A Positron Emission Tomographic Study of Auditory Localization in the Congenitally Blind. Journal of Neuroscience, 2000, 20, 2664-2672.	3.6	442
93	Modality-specific frontal and parietal areas for auditory and visual spatial localization in humans. Nature Neuroscience, 1999, 2, 759-766.	14.8	397
94	A PET study of human auditory spatial processing. Neuroscience Letters, 1999, 262, 155-158.	2.1	181
95	Auditory cortical plasticity: a comparison with other sensory systems. Trends in Neurosciences, 1999, 22, 74-80.	8.6	280
96	Cortical control of the thalamus: top-down processing and plasticity. Nature Neuroscience, 1998, 1, 179-180.	14.8	52
97	Cortical processing of complex sounds. Current Opinion in Neurobiology, 1998, 8, 516-521.	4.2	516
98	Parallel Processing in the Auditory Cortex of Primates. Audiology and Neuro-Otology, 1998, 3, 86-103.	1.3	307
99	Hemispheric specialization for English and ASL. NeuroReport, 1998, 9, 1537-1542.	1.2	91
100	Processing of Frequency-Modulated Sounds in the Cat's Posterior Auditory Field. Journal of Neurophysiology, 1998, 79, 2629-2642.	1.8	122
101	Attention-related modulation of activity in primary and secondary auditory cortex. NeuroReport, 1997, 8, 2511-2516.	1.2	149
102	Anin vivo model for functional MRI in cat visual cortex. Magnetic Resonance in Medicine, 1997, 38, 699-705.	3.0	50
103	Serial and parallel processing in rhesus monkey auditory cortex. Journal of Comparative Neurology, 1997, 382, 89-103.	1.6	330
104	Chapter 22 Substitution of visual by auditory inputs in the cat's anterior ectosylvian cortex. Progress in Brain Research, 1996, 112, 313-323.	1.4	25
105	Reverberations of Hebbian thinking. Behavioral and Brain Sciences, 1995, 18, 642-643.	0.7	3
106	Motion anisotropies and heading detection. Biological Cybernetics, 1995, 72, 261-277.	1.3	37
107	Compensatory plasticity and sensory substitution in the cerebral cortex. Trends in Neurosciences, 1995, 18, 36-43.	8.6	539
108	An illusory transformation in a model of optic flow processing. Vision Research, 1995, 35, 1619-1631.	1.4	30

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109	Developmental plasticity and memory. Behavioural Brain Research, 1995, 66, 7-12.	2.2	62
110	Motion anisotropies and heading detection. Biological Cybernetics, 1995, 72, 261-277.	1.3	2
111	Heading detection from optic flow. Nature, 1994, 369, 712-713.	27.8	47
112	Auditory Localization Behaviour in Visually Deprived Cats. European Journal of Neuroscience, 1994, 6, 149-160.	2.6	134
113	A Neural Network for the Processing of Optic Flow from Ego-Motion in Man and Higher Mammals. Neural Computation, 1993, 5, 374-391.	2.2	155
114	Effects of NMDA antagonists on developmental plasticity in kitten visual cortex. International Journal of Developmental Neuroscience, 1990, 8, 425-435.	1.6	47
115	Auditory and visual neurons in the cat's superior colliculus selective for the direction of apparent motion stimuli. Brain Research, 1989, 490, 56-63.	2.2	44
116	Chapter 9: Visual function of the cat's LP/LS subsystem in global motion processing. Progress in Brain Research, 1988, 75, 95-108.	1.4	22
117	A model of direction-selective ?simple? cells in the visual cortex based on inhibition asymmetry. Biological Cybernetics, 1987, 57, 147-157.	1.3	21
118	Ketamineâ€”xylazine anaesthesia blocks consolidation of ocular dominance changes in kitten visual cortex. Nature, 1987, 326, 183-185.	27.8	226
119	Competition and orientation-dependent recovery from monocular deprivation in the kitten's striate cortex. Developmental Brain Research, 1983, 10, 305-308.	1.7	3
120	Plasticity in auditory functions. , 0, , 162-179.		1
121	Crossmodal Plasticity in Early Blindness. , 0, , 138-152.		0
122	Plasticity in auditory functions. , 0, , 125-139.		0
123	Crossmodal expansion of cortical maps in early blindness. , 0, , 243-260.		2