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	Maps and streams in the auditory cortex: nonhuman primates illuminate human speech processing. Nature Neuroscience, 2009, 12, 718-724.	14.8	1,462
2	Functional Specialization in Rhesus Monkey Auditory Cortex. Science, 2001, 292, 290-293.	12.6	694
3	Tuning Out the Noise: Limbic-Auditory Interactions in Tinnitus. Neuron, 2010, 66, 819-826.	8.1	630
4	Compensatory plasticity and sensory substitution in the cerebral cortex. Trends in Neurosciences, 1995, 18, 36-43.	8.6	539
5	Cortical processing of complex sounds. Current Opinion in Neurobiology, 1998, 8, 516-521.	4.2	516
6	A Positron Emission Tomographic Study of Auditory Localization in the Congenitally Blind. Journal of Neuroscience, 2000, 20, 2664-2672.	3.6	442
7	Modality-specific frontal and parietal areas for auditory and visual spatial localization in humans. Nature Neuroscience, 1999, 2, 759-766.	14.8	397
8	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
9	Dysregulation of Limbic and Auditory Networks in Tinnitus. Neuron, 2011, 69, 33-43.	8.1	380
10	Serial and parallel processing in rhesus monkey auditory cortex. Journal of Comparative Neurology, 1997, 382, 89-103.	1.6	330
11	Cortical Representation of Natural Complex Sounds: Effects of Acoustic Features and Auditory Object Category. Journal of Neuroscience, 2010, 30, 7604-7612.	3.6	323
12	Parallel Processing in the Auditory Cortex of Primates. Audiology and Neuro-Otology, 1998, 3, 86-103.	1.3	307
13	Auditory cortical plasticity: a comparison with other sensory systems. Trends in Neurosciences, 1999, 22, 74-80.	8.6	280
14	Perceptual Organization of Tone Sequences in the Auditory Cortex of Awake Macaques. Neuron, 2005, 48, 139-148.	8.1	266
15	Perception of Sound-Source Motion by the Human Brain. Neuron, 2002, 34, 139-148.	8.1	265
16	Preserved Functional Specialization for Spatial Processing in the Middle Occipital Gyrus of the Early Blind. Neuron, 2010, 68, 138-148.	8.1	256
17	An expanded role for the dorsal auditory pathway in sensorimotor control and integration. Hearing Research, 2011, 271, 16-25.	2.0	235
18	Ketamineâ€"xylazine anaesthesia blocks consolidation of ocular dominance changes in kitten visual cortex. Nature, 1987, 326, 183-185.	27.8	226

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19	Neurobiological roots of language in primate audition: common computational properties. Trends in Cognitive Sciences, 2015, 19, 142-150.	7.8	225
20	Frontostriatal Gating of Tinnitus and Chronic Pain. Trends in Cognitive Sciences, 2015, 19, 567-578.	7.8	189
21	A PET study of human auditory spatial processing. Neuroscience Letters, 1999, 262, 155-158.	2.1	181
22	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
23	Brain Activation during Anticipation of Sound Sequences. Journal of Neuroscience, 2009, 29, 2477-2485.	3.6	171
24	The role of auditory cortex in the formation of auditory streams. Hearing Research, 2007, 229, 116-131.	2.0	165
25	Vowel sound extraction in anterior superior temporal cortex. Human Brain Mapping, 2006, 27, 562-571.	3.6	163
26	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
27	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
28	Tinnitus and tinnitus disorder: Theoretical and operational definitions (an international) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (m	1.4	150
29	Attention-related modulation of activity in primary and secondary auditory cortex. NeuroReport, 1997, 8, 2511-2516.	1.2	149
30	Multiple Stages of Auditory Speech Perception Reflected in Event-Related fMRI. Cerebral Cortex, 2007, 17, 2251-2257.	2.9	145
31	Auditory Localization Behaviour in Visually Deprived Cats. European Journal of Neuroscience, 1994, 6, 149-160.	2.6	134
32	Cortico-limbic morphology separates tinnitus from tinnitus distress. Frontiers in Systems Neuroscience, 2012, 6, 21.	2.5	131
33	Cortical plasticity and preserved function in early blindness. Neuroscience and Biobehavioral Reviews, 2014, 41, 53-63.	6.1	129
34	Wernickeâ€™s area revisited: Parallel streams and word processing. Brain and Language, 2013, 127, 181-191.	1.6	128
35	Processing of Frequency-Modulated Sounds in the Cat's Posterior Auditory Field. Journal of Neurophysiology, 1998, 79, 2629-2642.	1.8	122
36	Functional Specialization of Medial Auditory Belt Cortex in the Alert Rhesus Monkey. Journal of Neurophysiology, 2009, 102, 1606-1622.	1.8	112

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37	Ventral and dorsal streams in the evolution of speech and language. Frontiers in Evolutionary Neuroscience, 2012, 4, 7.	3.7	108
38	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
39	Intrinsic network activity in tinnitus investigated using functional MRI. Human Brain Mapping, 2016, 37, 2717-2735.	3.6	103
40	Auditoryâ€“limbic interactions in chronic tinnitus: Challenges for neuroimaging research. Hearing Research, 2016, 334, 49-57.	2.0	100
41	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
42	Hemispheric specialization for English and ASL. NeuroReport, 1998, 9, 1537-1542.	1.2	91
43	Automatic Phoneme Category Selectivity in the Dorsal Auditory Stream. Journal of Neuroscience, 2013, 33, 5208-5215.	3.6	91
44	Functional Topography of Human Auditory Cortex. Journal of Neuroscience, 2016, 36, 1416-1428.	3.6	91
45	Functional Correlates of the Anterolateral Processing Hierarchy in Human Auditory Cortex. Journal of Neuroscience, 2011, 31, 9345-9352.	3.6	87
46	Relationship Between Cortical Thickness and Functional Activation in the Early Blind. Cerebral Cortex, 2015, 25, 2035-2048.	2.9	86
47	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
48	Functional MRI evidence for a role of ventral prefrontal cortex in tinnitus. Brain Research, 2012, 1485, 22-39.	2.2	75
49	Developmental plasticity and memory. Behavioural Brain Research, 1995, 66, 7-12.	2.2	62
50	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
51	Auditory cortex of bats and primates: managing species-specific calls for social communication. Frontiers in Bioscience - Landmark, 2007, 12, 4621.	3.0	57
52	Segregation of Vowels and Consonants in Human Auditory Cortex: Evidence for Distributed Hierarchical Organization. Frontiers in Psychology, 2010, 1, 232.	2.1	56
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	Cortical Plasticity and Music. Annals of the New York Academy of Sciences, 2001, 930, 330-336.	3.8	53

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55	Cortical control of the thalamus: top-down processing and plasticity. Nature Neuroscience, 1998, 1, 179-180.	14.8	52
56	Evidence for distinct human auditory cortex regions for sound location versus identity processing. Nature Communications, 2013, 4, 2585.	12.8	51
57	Cortical mechanisms of spatial hearing. Nature Reviews Neuroscience, 2019, 20, 609-623.	10.2	51
58	Anin vivo model for functional MRI in cat visual cortex. Magnetic Resonance in Medicine, 1997, 38, 699-705.	3.0	50
59	Diffusion Imaging of Auditory and Auditory-Limbic Connectivity in Tinnitus: Preliminary Evidence and Methodological Challenges. Neural Plasticity, 2014, 2014, 1-16.	2.2	50
60	Distinct cortical locations for integration of audiovisual speech and the McGurk effect. Frontiers in Psychology, 2014, 5, 534.	2.1	49
61	Functional MRI of the vocalization-processing network in the macaque brain. Frontiers in Neuroscience, 2015, 9, 113.	2.8	49
62	Lipreading and Covert Speech Production Similarly Modulate Human Auditory-Cortex Responses to Pure Tones. Journal of Neuroscience, 2010, 30, 1314-1321.	3.6	48
63	Widespread and Opponent fMRI Signals Represent Sound Location in Macaque Auditory Cortex. Neuron, 2017, 93, 971-983.e4.	8.1	48
64	Effects of NMDA antagonists on developmental plasticity in kitten visual cortex. International Journal of Developmental Neuroscience, 1990, 8, 425-435.	1.6	47
65	Heading detection from optic flow. Nature, 1994, 369, 712-713.	27.8	47
66	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
67	Training Humans to Categorize Monkey Calls: Auditory Feature- and Category-Selective Neural Tuning Changes. Neuron, 2018, 98, 405-416.e4.	8.1	44
68	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
69	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
70	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
71	Early-latency categorical speech sound representations in the left inferior frontal gyrus. NeuroImage, 2016, 129, 214-223.	4.2	40
72	Reply to 'â€˜Whatâ€™, â€˜whereâ€™ and â€˜howâ€™ in auditory cortex'. Nature Neuroscience, 2000, 3, 966-966	14.8	38

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73	Auditory and visual cortex of primates: a comparison of two sensory systems. European Journal of Neuroscience, 2015, 41, 579-585.	2.6	38
74	Motion anisotropies and heading detection. Biological Cybernetics, 1995, 72, 261-277.	1.3	37
75	Impaired Cross-Modal Inhibition in Alzheimer Disease. PLoS Medicine, 2005, 2, e288.	8.4	37
76	Different forms of effective connectivity in primate frontotemporal pathways. Nature Communications, 2015, 6, 6000.	12.8	35
77	An ALE metaâ€analysis on the audiovisual integration of speech signals. Human Brain Mapping, 2014, 35, 5587-5605.	3.6	33
78	An illusory transformation in a model of optic flow processing. Vision Research, 1995, 35, 1619-1631.	1.4	30
79	Cortical map plasticity in animals and humans. Progress in Brain Research, 2002, 138, 73-88.	1.4	30
80	Neural Encoding and Retrieval of Sound Sequences. Annals of the New York Academy of Sciences, 2005, 1060, 125-135.	3.8	30
81	Active Sound Localization Sharpens Spatial Tuning in Human Primary Auditory Cortex. Journal of Neuroscience, 2018, 38, 8574-8587.	3.6	28
82	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
83	Processing of harmonics in the lateral belt of macaque auditory cortex. Frontiers in Neuroscience, 2014, 8, 204.	2.8	27
84	Meta-analytic connectivity modeling of the human superior temporal sulcus. Brain Structure and Function, 2017, 222, 267-285.	2.3	26
85	Where did language come from? Precursor mechanisms in nonhuman primates. Current Opinion in Behavioral Sciences, 2018, 21, 195-204.	3.9	26
86	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
87	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
88	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
89	A model of direction-selective ?simple? cells in the visual cortex based on inhibition asymmetry. Biological Cybernetics, 1987, 57, 147-157.	1.3	21
90	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

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91	Convergent evidence for the causal involvement ofÂanterior superior temporal gyrus in auditory single-word comprehension. Cortex, 2016, 77, 164-166.	2.4	21
92	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
93	Distinct brain areas process novel and repeating tone sequences. Brain and Language, 2018, 187, 104-114.	1.6	11
94	Auditory Cortical Organization: Evidence for Functional Streams. , 2011, , 99-116.		11
95	Vocal gestures and auditory objects. Behavioral and Brain Sciences, 2005, 28, 143-144.	0.7	10
96	Processing of â€œwhatâ€•and â€œwhereâ€•in auditory association cortex. International Congress Series, 2003, 1250, 37-51.	0.2	9
97	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
98	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
99	Primate Audition: Reception, Perception, and Ecology. Springer Handbook of Auditory Research, 2017, , 47-77.	0.7	7
100	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
101	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
102	Cortical Processing Of Auditory Space: Pathways And Plasticity. , 2007, , 389-410.		5
103	Processing Streams in Auditory Cortex. Springer Handbook of Auditory Research, 2013, , 7-43.	0.7	4
104	Functional Organization and Plasticity of Auditory Cortex. , 2003, , 356-365.		4
105	Competition and orientation-dependent recovery from monocular deprivation in the kitten's striate cortex. Developmental Brain Research, 1983, 10, 305-308.	1.7	3
106	Reverberations of Hebbian thinking. Behavioral and Brain Sciences, 1995, 18, 642-643.	0.7	3
107	Pathways and Streams in the Auditory Cortex. , 2016, , 287-298.		3
108	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

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109	Sensory Deprivation. , 2002, , 277-287.		2
110	Adaptive plasticity and sensory substitution in the cerebral cortex. , 2006, , 361-376.		2
111	Brain networks for the encoding of emotions in communication sounds of human and nonhuman primates. , 2013, , 49-60.		2
112	The Auditory Cortex of Primates Including Man With Reference to Speech. , 2020, , 791-811.		2
113	Crossmodal expansion of cortical maps in early blindness. , 0, , 243-260.		2
114	Motion anisotropies and heading detection. Biological Cybernetics, 1995, 72, 261-277.	1.3	2
115	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
116	Plasticity in auditory functions. , 0, , 162-179.		1
117	Processing streams in the early blind. Multisensory Research, 2013, 26, 3.	1.1	1
118	Crossmodal Plasticity in Early Blindness. , 0, , 138-152.		0
119	Plasticity in auditory functions. , 0, , 125-139.		0
120	Speech Processing, The Cortical Organization of. , 2015, , 243-249.		0
121	Human Language, Evolution of. , 2015, , 323-328.		0
122	Sensory Deprivation â˜†. , 2018, , .		0
123	Effects of age and left hemisphere lesions on audiovisual integration of speech. Brain and Language, 2020, 206, 104812.	1.6	0