

# Eike Budinger

## List of Publications by Year in descending order

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41  
papers

1,916  
citations

304368

22  
h-index

301761

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42  
all docs

42  
docs citations

42  
times ranked

2032  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stimulus-Related Gamma Oscillations in Primate Auditory Cortex. <i>Journal of Neurophysiology</i> , 2002, 87, 2715-2725.	0.9	164
2	Anatomical connections suitable for the direct processing of neuronal information of different modalities via the rodent primary auditory cortex. <i>Hearing Research</i> , 2009, 258, 16-27.	0.9	157
3	Sound-Induced Enhancement of Low-Intensity Vision: Multisensory Influences on Human Sensory-Specific Cortices and Thalamic Bodies Relate to Perceptual Enhancement of Visual Detection Sensitivity. <i>Journal of Neuroscience</i> , 2010, 30, 13609-13623.	1.7	136
4	Functional organization of auditory cortex in the Mongolian gerbil ( <i>Meriones unguiculatus</i> ). III. Anatomical subdivisions and corticocortical connections. <i>European Journal of Neuroscience</i> , 2000, 12, 2425-2451.	1.2	133
5	Functional organization of auditory cortex in the Mongolian gerbil ( <i>Meriones unguiculatus</i> ). IV. Connections with anatomically characterized subcortical structures. <i>European Journal of Neuroscience</i> , 2000, 12, 2452-2474.	1.2	117
6	Brain atlas of the Mongolian gerbil ( <i>Meriones unguiculatus</i> ) in CT/MRI-aided stereotaxic coordinates. <i>Brain Structure and Function</i> , 2016, 221, 1-272.	1.2	99
7	Non-sensory cortical and subcortical connections of the primary auditory cortex in Mongolian gerbils: Bottom-up and top-down processing of neuronal information via field A1. <i>Brain Research</i> , 2008, 1220, 2-32.	1.1	97
8	The cognitive auditory cortex: Task-specificity of stimulus representations. <i>Hearing Research</i> , 2007, 229, 213-224.	0.9	90
9	Possible anatomical pathways for short-latency multisensory integration processes in primary sensory cortices. <i>Brain Structure and Function</i> , 2015, 220, 955-977.	1.2	88
10	Dopaminergic Modulation of Auditory Cortex-Dependent Memory Consolidation through mTOR. <i>Cerebral Cortex</i> , 2008, 18, 2646-2658.	1.6	87
11	<i>Toxoplasma gondii</i> Actively Inhibits Neuronal Function in Chronically Infected Mice. <i>PLoS ONE</i> , 2012, 7, e35516.	1.1	80
12	Thalamic influences on multisensory integration. <i>Communicative and Integrative Biology</i> , 2011, 4, 378-381.	0.6	74
13	Behavioral semantics of learning and crossmodal processing in auditory cortex: The semantic processor concept. <i>Hearing Research</i> , 2011, 271, 3-15.	0.9	63
14	Localization of neuregulin-1 $\pm$ (heregulin-1 $\pm$ ) and one of its receptors, ErbB-4 tyrosine kinase, in developing and adult human brain. <i>Brain Research Bulletin</i> , 2006, 69, 546-559.	1.4	59
15	Gamma oscillations in gerbil auditory cortex during a target-discrimination task reflect matches with short-term memory. <i>Brain Research</i> , 2008, 1220, 70-80.	1.1	55
16	Thalamic influences on multisensory integration. <i>Communicative and Integrative Biology</i> , 2011, 4, 378-81.	0.6	47
17	The Serine/Threonine Kinase Ndr2 Controls Integrin Trafficking and Integrin-Dependent Neurite Growth. <i>Journal of Neuroscience</i> , 2014, 34, 5342-5354.	1.7	45
18	Auditory Cortical Contrast Enhancing by Global Winner-Take-All Inhibitory Interactions. <i>PLoS ONE</i> , 2008, 3, e1735.	1.1	42

#	ARTICLE	IF	CITATIONS
19	Early sensory experience influences the development of multisensory thalamocortical and intracortical connections of primary sensory cortices. <i>Brain Structure and Function</i> , 2017, 223, 1165-1190.	1.2	37
20	A Jacob/Nsmf Gene Knockout Results in Hippocampal Dysplasia and Impaired BDNF Signaling in Dendritogenesis. <i>PLoS Genetics</i> , 2016, 12, e1005907.	1.5	36
21	Anatomy of the auditory thalamocortical system in the mongolian gerbil: Nuclear origins and cortical field, layer, and frequency specificities. <i>Journal of Comparative Neurology</i> , 2014, 522, 2397-2430.	0.9	24
22	Coding of a sexually dimorphic song feature by auditory interneurons of grasshoppers: the role of leading inhibition. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2002, 187, 977-985.	0.7	23
23	The subcortical auditory structures in the Mongolian gerbil: II. Frequency-related topography of the connections with cortical field AI. <i>Journal of Comparative Neurology</i> , 2013, 521, 2772-2797.	0.9	21
24	Ablation of the presynaptic organizer Bassoon in excitatory neurons retards dentate gyrus maturation and enhances learning performance. <i>Brain Structure and Function</i> , 2018, 223, 3423-3445.	1.2	21
25	Subcortical auditory structures in the mongolian gerbil: I. Golgi architecture. <i>Journal of Comparative Neurology</i> , 2013, 521, 1289-1321.	0.9	19
26	Task-demands and audio-visual stimulus configurations modulate neural activity in the human thalamus. <i>NeuroImage</i> , 2013, 66, 110-118.	2.1	12
27	Crossmodal Connections of Primary Sensory Cortices Largely Vanish During Normal Aging. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 52.	1.7	11
28	Altered Neuronal Activity Patterns in the Visual Cortex of the Adult Rat after Partial Optic Nerve Crush—A Single-Cell Resolution Metabolic Mapping Study. <i>Cerebral Cortex</i> , 2012, 22, 1824-1833.	1.6	10
29	Visualization of acute focal lesions in rats with experimental autoimmune encephalomyelitis by magnetic nanoparticles, comparing different MRI sequences including phase imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 1126-1135.	1.9	9
30	Early Sensory Loss Alters the Dendritic Branching and Spine Density of Supragranular Pyramidal Neurons in Rodent Primary Sensory Cortices. <i>Frontiers in Neural Circuits</i> , 2019, 13, 61.	1.4	9
31	Laser-Induced Apoptosis of Corticothalamic Neurons in Layer VI of Auditory Cortex Impact on Cortical Frequency Processing. <i>Frontiers in Neural Circuits</i> , 2021, 15, 659280.	1.4	8
32	Adrenergic modulation of discrimination learning and memory in the auditory cortex. <i>European Journal of Neuroscience</i> , 2019, 50, 3141-3163.	1.2	7
33	Auditory cortex — Current concepts in human and animal research. <i>Hearing Research</i> , 2011, 271, 1-2.	0.9	6
34	Different Synchronization Rules in Primary and Nonprimary Auditory Cortex of Monkeys. <i>Journal of Cognitive Neuroscience</i> , 2013, 25, 1517-1526.	1.1	6
35	Auditory Cortex Circuits. <i>Springer Handbook of Auditory Research</i> , 2018, , 199-233.	0.3	6
36	The extracellular matrix regulates cortical layer dynamics and cross-columnar frequency integration in the auditory cortex. <i>Communications Biology</i> , 2021, 4, 322.	2.0	4

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37	VGLUT3-immunoreactive afferents of the lateral septum: ultrastructural evidence for a modulatory role of glutamate. <i>Brain Structure and Function</i> , 2013, 218, 295-301.	1.2	3
38	Primary Auditory Cortex and the Thalamo-Cortico-Thalamic Circuitry I. <i>Anatomy</i> , 2020, , 623-656.		2
39	Auditory cortex 2014 “ towards a synthesis of human and animal research. <i>European Journal of Neuroscience</i> , 2015, 41, 515-517.	1.2	1
40	Ultrastructure of giant thalamic terminals in the auditory cortex. <i>European Journal of Neuroscience</i> , 2019, 50, 3445-3453.	1.2	1
41	Selective interruption of auditory interhemispheric crosstalk impairs discrimination learning of frequency-modulated tone direction but not gap detection and discrimination. <i>Journal of Neuroscience</i> , 2022, , JN-RM-0216-21.	1.7	1