M Alex Meredith

List of Publications by Year
in descending order

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82 papers	8,423 citations	76294 40 h-index	69214 77 g-index
83 all docs	83 docs citations	83 times ranked	3628 citing authors

#	Article	IF	Citations
1	Multisensory responses in a belt region of the dorsal auditory cortical pathway. European Journal of Neuroscience, 2022, 55, 589-610.	1.2	6
2	Early hearing loss induces plasticity within extraâ€striate visual cortex. European Journal of Neuroscience, 2021, 53, 1950-1960.	1.2	2
3	A simple vector-like law for perceptual information combination is also followed by a class of cortical multisensory bimodal neurons. IScience, 2021, 24, 102527.	1.9	0
4	Crashing from cadaver to computer: Covidâ€driven crisisâ€mode pedagogy spawns active online substitute for teaching gross anatomy. Anatomical Sciences Education, 2021, 14, 536-551.	2.5	23
5	What is a multisensory cortex? A laminar, connectional, and functional study of a ferret temporal cortical multisensory area. Journal of Comparative Neurology, 2020, 528, 1864-1882.	0.9	6
6	Dystrophic muscle distribution in late-stage muscular dystrophy. Autopsy and Case Reports, 2020, 10, e2020221.	0.2	0
7	Cadaver Rounds: A Comprehensive Exercise That Integrates Clinical Context Into Medical Gross Anatomy. Academic Medicine, 2019, 94, 828-832.	0.8	7
8	Audiovisual Enhanced Sensitivity: Both Psychophysical and Neural Data Follow the Same Combination Rule. Journal of Vision, 2019, 19, 34.	0.1	0
9	Do the Different Sensory Areas Within the Cat Anterior Ectosylvian Sulcal Cortex Collectively Represent a Network Multisensory Hub?. Multisensory Research, 2018, 31, 793-823.	0.6	4
10	Species-dependent role of crossmodal connectivity among the primary sensory cortices. Hearing Research, 2017, 343, 83-91.	0.9	35
11	Editorial introduction: Special issue on plasticity following hearing loss and deafness. Hearing Research, 2017, 343, 1-3.	0.9	2
12	Is territorial expansion a mechanism for crossmodal plasticity?. European Journal of Neuroscience, 2017, 45, 1165-1176.	1.2	9
13	Synaptic distribution and plasticity in primary auditory cortex (A1) exhibits laminar and cell-specific changes in the deaf. Hearing Research, 2017, 353, 122-134.	0.9	17
14	Cortical multisensory connectivity is present near birth in humans. Brain Imaging and Behavior, 2017, 11, 1207-1213.	1.1	16
15	Synaptic Basis for Cross-modal Plasticity: Enhanced Supragranular Dendritic Spine Density in Anterior Ectosylvian Auditory Cortex of the Early Deaf Cat. Cerebral Cortex, 2016, 26, 1365-1376.	1.6	36
16	Cortical and thalamic connectivity of the auditory anterior ectosylvian cortex of early-deaf cats: Implications for neural mechanisms of crossmodal plasticity. Hearing Research, 2016, 333, 25-36.	0.9	43
17	Singleâ€unit analysis of somatosensory processing in the core auditory cortex of hearing ferrets. European Journal of Neuroscience, 2015, 41, 686-698.	1.2	45
18	Laminar and connectional organization of a multisensory cortex. Journal of Comparative Neurology, 2013, 521, 1867-1890.	0.9	36

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19	Multisensory and unisensory neurons in ferret parietal cortex exhibit distinct functional properties. European Journal of Neuroscience, 2013, 37, 910-923.	1.2	21
20	Early Hearing-Impairment Results in Crossmodal Reorganization of Ferret Core Auditory Cortex. Neural Plasticity, 2012, 2012, 1-13.	1.0	45
21	Multisensory dysfunction accompanies crossmodal plasticity following adult hearing impairment. Neuroscience, 2012, 214, 136-148.	1.1	49
22	Dendritic spine density in multisensory versus primary sensory cortex. Synapse, 2012, 66, 714-724.	0.6	12
23	Somatosensory and visual crossmodal plasticity in the anterior auditory field of early-deaf cats. Hearing Research, 2011, 280, 38-47.	0.9	97
24	Connectional parameters determine multisensory processing in a spiking network model of multisensory convergence. Experimental Brain Research, 2011, 213, 329-339.	0.7	11
25	Crossmodal reorganization in the early deaf switches sensory, but not behavioral roles of auditory cortex. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8856-8861.	3.3	125
26	An examination of somatosensory area SIII in ferret cortex. Somatosensory & Motor Research, 2011, 28, 1-10.	0.4	18
27	Adaptive crossmodal plasticity in deaf auditory cortex. Progress in Brain Research, 2011, 191, 251-270.	0.9	33
28	Neuroanatomical identification of crossmodal auditory inputs to interneurons in somatosensory cortex. Experimental Brain Research, 2010, 202, 725-731.	0.7	21
29	Cross-modal plasticity in specific auditory cortices underlies visual compensations in the deaf. Nature Neuroscience, 2010, 13, 1421-1427.	7.1	409
30	Semantic confusion regarding the development of multisensory integration: a practical solution. European Journal of Neuroscience, 2010, 31, 1713-1720.	1.2	107
31	A Neuronal Multisensory Processing Simulator. , 2010, , .		2
32	Corticocortical Connectivity Subserving Different Forms of Multisensory Convergence. , 2010, , 7-20.		4
33	Modeling Multisensory Enhancement with Self-organizing Maps. Frontiers in Computational Neuroscience, 2009, 3, 8.	1.2	15
34	Adult deafness induces somatosensory conversion of ferret auditory cortex. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5925-5930.	3.3	116
35	Not Just for Bimodal Neurons Anymore: The Contribution of Unimodal Neurons to Cortical Multisensory Processing. Brain Topography, 2009, 21, 157-167.	0.8	64
36	Somatosensory and multisensory properties of the medial bank of the ferret rostral suprasylvian sulcus. Experimental Brain Research, 2009, 196, 239-251.	0.7	31

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37	Auditory influences on non-auditory cortices. Hearing Research, 2009, 258, 64-71.	0.9	31
38	Subthreshold multisensory processing in cat auditory cortex. NeuroReport, 2009, 20, 126-131.	0.6	56
39	Auditory projections to extrastriate visual cortex: connectional basis for multisensory processing in â€˜unimodalâ€™ visual neurons. Experimental Brain Research, 2008, 191, 37-47.	0.7	36
40	Subthreshold auditory inputs to extrastriate visual neurons are responsive to parametric changes in stimulus quality: Sensory-specific versus non-specific coding. Brain Research, 2008, 1242, 95-101.	1.1	40
41	Do Cross-Modal Projections Always Result in Multisensory Integration?. Cerebral Cortex, 2008, 18, 2066-2076.	1.6	46
42	Multisensory Processing in â€œUnimodalâ€•Neurons: Cross-Modal Subthreshold Auditory Effects in Cat Extrastriate Visual Cortex. Journal of Neurophysiology, 2007, 98, 545-549.	0.9	92
43	Sensory and multisensory representations within the cat rostral suprasylvian cortex. Journal of Comparative Neurology, 2007, 503, 110-127.	0.9	28
44	Crossmodal projections from somatosensory area SIV to the auditory field of the anterior ectosylvian sulcus (FAES) in Cat: further evidence for subthreshold forms of multisensory processing. Experimental Brain Research, 2006, 172, 472-484.	0.7	57
45	Stimulus intensity modifies saccadic reaction time and visual response latency in the superior colliculus. Experimental Brain Research, 2006, 174, 53-59.	0.7	107
46	Crossmodal Integration in the Primate Superior Colliculus Underlying the Preparation and Initiation of Saccadic Eye Movements. Journal of Neurophysiology, 2005, 93, 3659-3673.	0.9	116
47	Cross-modal Circuitry Between Auditory and Somatosensory Areas of the Cat Anterior Ectosylvian Sulcal Cortex: A 'New' Inhibitory Form of Multisensory Convergence. Cerebral Cortex, 2004, 14, 387-403.	1.6	98
48	MULTISENSORY PROCESSES. Cognitive, Affective and Behavioral Neuroscience, 2004, 4, 115-116.	1.0	0
49	Cortico-cortical relations of cat somatosensory areas SIV and SV. Somatosensory & Motor Research, 2004, 21, 199-209.	0.4	11
50	Spatial distribution of functional superficialâ€“deep connections in the adult ferret superior colliculus. Neuroscience, 2004, 128, 861-870.	1.1	36
51	Multiple sensory afferents to ferret pseudosylvian sulcal cortex. NeuroReport, 2004, 15, 461-465.	0.6	26
52	Engagement of visual fixation suppresses sensory responsiveness and multisensory integration in the primate superior colliculus. European Journal of Neuroscience, 2003, 18, 2867-2873.	1.2	69
53	A comparison of the distribution of GABA-ergic neurons in cortices representing different sensory modalities. Journal of Chemical Neuroanatomy, 2003, 26, 51-63.	1.0	16
54	Anterior ectosylvian cortical projections to the rostral suprasylvian multisensory zone in cat. NeuroReport, 2003, 14, 2139-2145.	0.6	11

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55	On the neuronal basis for multisensory convergence: a brief overview. Cognitive Brain Research, 2002, 14, 31-40.	3.3	163
56	Chemoarchitecture of GABAergic neurons in the ferret superior colliculus. Journal of Comparative Neurology, 2002, 452, 334-359.	0.9	55
57	Organization of the neurons of origin of the descending pathways from the ferret superior colliculus. Neuroscience Research, 2001, 40, 301-313.	1.0	21
58	The influence of stimulus properties on multisensory processing in the awake primate superior colliculus.. Canadian Journal of Experimental Psychology, 2001, 55, 123-132.	0.7	60
59	Responses to innocuous, but not noxious, somatosensory stimulation by neurons in the ferret superior colliculus. Somatosensory & Motor Research, 2000, 17, 297-308.	0.4	8
60	The frontal eye fields target multisensory neurons in cat superior colliculus. Experimental Brain Research, 1999, 128, 460-470.	0.7	21
61	Multisensory Integration in the Superior Colliculus of the Alert Cat. Journal of Neurophysiology, 1998, 80, 1006-1010.	0.9	240
62	Suppression of NMDA Receptor Function Using Antisense DNA Blocks Ocular Dominance Plasticity While Preserving Visual Responses. Journal of Neurophysiology, 1998, 80, 1021-1032.	0.9	123
63	Intrinsic Circuitry of the Superior Colliculus: Pharmacophysiological Identification of Horizontally Oriented Inhibitory Interneurons. Journal of Neurophysiology, 1998, 79, 1597-1602.	0.9	209
64	Spatial determinants of multisensory integration in cat superior colliculus neurons. Journal of Neurophysiology, 1996, 75, 1843-1857.	0.9	265
65	The role of anterior ectosylvian cortex in cross-modality orientation and approach behavior. Experimental Brain Research, 1996, 112, 1-10.	0.7	143
66	Chapter 8 The visually responsive neuron and beyond: multisensory integration in cat and monkey. Progress in Brain Research, 1993, 95, 79-90.	0.9	148
67	Converging influences from visual, auditory, and somatosensory cortices onto output neurons of the superior colliculus. Journal of Neurophysiology, 1993, 69, 1797-1809.	0.9	238
68	Integration of multiple sensory modalities in cat cortex. Experimental Brain Research, 1992, 91, 484-8.	0.7	215
69	Visual, auditory and somatosensory convergence in output neurons of the cat superior colliculus: multisensory properties of the tecto-reticulo-spinal projection. Experimental Brain Research, 1992, 88, 181-186.	0.7	131
70	Somatotopic component of the multisensory map in the deep laminae of the cat superior colliculus. Journal of Comparative Neurology, 1991, 312, 353-370.	0.9	44
71	The visuotopic component of the multisensory map in the deep laminae of the cat superior colliculus. Journal of Neuroscience, 1990, 10, 3727-3742.	1.7	63
72	Multisensory Integration.. Annals of the New York Academy of Sciences, 1990, 608, 51-70.	1.8	147

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73	Auditory cortical projection from the anterior ectosylvian sulcus (Field AES) to the superior colliculus in the cat: An anatomical and electrophysiological study. Journal of Comparative Neurology, 1989, 289, 687-707.	0.9	140
74	Behavioral Indices of Multisensory Integration: Orientation to Visual Cues is Affected by Auditory Stimuli. Journal of Cognitive Neuroscience, 1989, 1, 12-24.	1.1	357
75	Neurons and behavior: the same rules of multisensory integration apply. Brain Research, 1988, 448, 355-358.	1.1	260
76	Determinants of multisensory integration in superior colliculus neurons. I. Temporal factors. Journal of Neuroscience, 1987, 7, 3215-3229.	1.7	667
77	Spatial factors determine the activity of multisensory neurons in cat superior colliculus. Brain Research, 1986, 365, 350-354.	1.1	368
78	Visual, auditory, and somatosensory convergence on cells in superior colliculus results in multisensory integration. Journal of Neurophysiology, 1986, 56, 640-662.	0.9	1,054
79	Contractile differences between muscle units in the medial rectus and lateral rectus muscles in the cat. Journal of Neurophysiology, 1986, 56, 50-62.	0.9	37
80	Descending efferents from the superior colliculus relay integrated multisensory information. Science, 1985, 227, 657-659.	6.0	147
81	Interactions among converging sensory inputs in the superior colliculus. Science, 1983, 221, 389-391.	6.0	739
82	Retractor bulbi muscle responses to oculomotor nerve and nucleus stimulation in the cat. Brain Research, 1981, 211, 427-432.	1.1	16