Douglas L Oliver

List of Publications by Year
in descending order

76 papers	5,482 citations	101543 36 h-index	95266 68 g-index
77 all docs	77 docs citations	77 times ranked	1508 citing authors

#	Article	IF	Citations
1	The neuronal architecture of the inferior colliculus in the cat: Defining the functional anatomy of the auditory midbrain. Journal of Comparative Neurology, 1984, 222, 209-236.	1.6	355
2	The central nucleus of the inferior colliculus in the cat. Journal of Comparative Neurology, 1984, 222, 237-264.	1.6	317
3	Connections of the dorsal nucleus of the lateral lemniscus: An inhibitory parallel pathway in the ascending auditory system?. Journal of Comparative Neurology, 1988, 276, 188-208.	1.6	212
4	A Monosynaptic GABAergic Input from the Inferior Colliculus to the Medial Geniculate Body in Rat. Journal of Neuroscience, 1997, 17, 3766-3777.	3.6	202
5	Morphology of GABAergic neurons in the inferior colliculus of the cat. Journal of Comparative Neurology, 1994, 340, 27-42.	1.6	189
6	Projections to the inferior colliculus from the anteroventral cochlear nucleus in the cat: Possible substrates for binaural interaction. Journal of Comparative Neurology, 1987, 264, 24-46.	1.6	184
7	Dorsal cochlear nucleus projections to the inferior colliculus in the cat: A light and electron microscopic study. Journal of Comparative Neurology, 1984, 224, 155-172.	1.6	182
8	Distinct K Currents Result in Physiologically Distinct Cell Types in the Inferior Colliculus of the Rat. Journal of Neuroscience, 2001, 21, 2861-2877.	3.6	173
9	GABAergic feedforward projections from the inferior colliculus to the medial geniculate body.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 8005-8010.	7.1	165
10	Dendritic and axonal morphology of HRP-injected neurons in the inferior colliculus of the cat. Journal of Comparative Neurology, 1991, 303, 75-100.	1.6	160
11	Intracellular Recordings in Response to Monaural and Binaural Stimulation of Neurons in the Inferior Colliculus of the Cat. Journal of Neuroscience, 1997, 17, 7565-7581.	3.6	152
12	A Discontinuous Tonotopic Organization in the Inferior Colliculus of the Rat. Journal of Neuroscience, 2008, 28, 4767-4776.	3.6	140
13	Acoustic environment determines phosphorylation state of the Kv3.1 potassium channel in auditory neurons. Nature Neuroscience, 2005, 8, 1335-1342.	14.8	127
14	Inferior and Superior Colliculi. Springer Handbook of Auditory Research, 1992, , 168-221.	0.7	124
15	Direct Projections from Cochlear Nuclear Complex to Auditory Thalamus in the Rat. Journal of Neuroscience, 2002, 22, 10891-10897.	3.6	123
16	The medial geniculate body of the tree shrew,Tupaia glis I. Cytoarchitecture and midbrain connections. Journal of Comparative Neurology, 1978, 182, 423-458.	1.6	117
17	Simultaneous anterograde labeling of axonal layers from lateral superior olive and dorsal cochlear nucleus in the inferior colliculus of cat. , 1997, 382, 215-229.		117
18	The cytoarchitecture of the inferior colliculus revisited: A common organization of the lateral cortex in rat and cat. Neuroscience, 2008, 154, 196-205.	2.3	115

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19	Identification of cell types in brain slices of the inferior colliculus. Neuroscience, 2000, 101, 403-416.	2.3	113
20	EM autoradiographic study of the projections from the dorsal nucleus of the lateral lemniscus: A possible source of inhibitory inputs to the inferior colliculus. Journal of Comparative Neurology, 1989, 286, 28-47.	1.6	109
21	Two Classes of GABAergic Neurons in the Inferior Colliculus. Journal of Neuroscience, 2009, 29, 13860-13869.	3.6	109
22	Expression of glutamate and inhibitory amino acid vesicular transporters in the rodent auditory brainstem. Journal of Comparative Neurology, 2011, 519, 316-340.	1.6	102
23	Neuron types in the central nucleus of the inferior colliculus that project to the medial geniculate body. Neuroscience, 1984, 11, 409-424.	2.3	96
24	Organization of binaural excitatory and inhibitory inputs to the inferior colliculus from the superior olive. Journal of Comparative Neurology, 2004, 472, 330-344.	1.6	96
25	Neuronal Organization in the Inferior Colliculus. , 2005, , 69-114.		95
26	The medial geniculate body of the tree shrew,Tupaia glis II. Connections with the neocortex. Journal of Comparative Neurology, 1978, 182, 459-493.	1.6	92
27	Axons from Anteroventral Cochlear Nucleus that Terminate in Medial Superior Olive of Cat: Observations Related to Delay Lines. Journal of Neuroscience, 1999, 19, 3146-3161.	3.6	91
28	Laminar inputs from dorsal cochlear nucleus and ventral cochlear nucleus to the central nucleus of the inferior colliculus: Two patterns of convergence. Neuroscience, 2005, 136, 883-894.	2.3	89
29	Axonal projections from the lateral and medial superior olive to the inferior colliculus of the cat: A study using electron microscopic autoradiography. Journal of Comparative Neurology, 1995, 360, 17-32.	1.6	88
30	Ascending efferent projections of the superior olivary complex. Microscopy Research and Technique, 2000, 51, 355-363.	2.2	85
31	Differential Patterns of Inputs Create Functional Zones in Central Nucleus of Inferior Colliculus. Journal of Neuroscience, 2010, 30, 13396-13408.	3.6	75
32	GABAA Synapses Shape Neuronal Responses to Sound Intensity in the Inferior Colliculus. Journal of Neuroscience, 2004, 24, 5031-5043.	3.6	69
33	Origins of Glutamatergic Terminals in the Inferior Colliculus Identified by Retrograde Transport and Expression of VGLUT1 and VGLUT2 Genes. Frontiers in Neuroanatomy, 2010, 4, 135.	1.7	59
34	The basic circuit of the IC: tectothalamic neurons with different patterns of synaptic organization send different messages to the thalamus. Frontiers in Neural Circuits, 2012, 6, 48.	2.8	58
35	Quantitative analyses of axonal endings in the central nucleus of the inferior colliculus and distribution of3H-labeling after injections in the dorsal cochlear nucleus. Journal of Comparative Neurology, 1985, 237, 343-359.	1.6	57
36	Direct innervation of identified tectothalamic neurons in the inferior colliculus by axons from the cochlear nucleus. Neuroscience, 1999, 93, 643-658.	2.3	54

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37	Concurrent loss and proliferation of astrocytes following lateral fluid percussion brain injury in the adult rat. Journal of Neuroscience Research, 1999, 57, 271-279.	2.9	47
38	Identified GABAergic and Glutamatergic Neurons in the Mouse Inferior Colliculus Share Similar Response Properties. Journal of Neuroscience, 2017, 37, 8952-8964.	3.6	46
39	Persistent effects of early augmented acoustic environment on the auditory brainstem. Neuroscience, 2011, 184, 75-87.	2.3	44
40	Differences in the strength of cortical and brainstem inputs to SSA and non-SSA neurons in the inferior colliculus. Scientific Reports, 2015, 5, 10383.	3.3	41
41	Differential distribution of GABA and glycine terminals in the inferior colliculus of rat and mouse. Journal of Comparative Neurology, 2015, 523, 2683-2697.	1.6	37
42	Synaptic modification in neurons of the central nucleus of the inferior colliculus. Hearing Research, 2002, 168, 43-54.	2.0	36
43	Topography of Interaural Temporal Disparity Coding in Projections of Medial Superior Olive to Inferior Colliculus. Journal of Neuroscience, 2003, 23, 7438-7449.	3.6	35
44	Neuronal Responses to Lemniscal Stimulation in Laminar Brain Slices of the Inferior Colliculus. JARO - Journal of the Association for Research in Otolaryngology, 2006, 7, 1-14.	1.8	35
45	Subdivisions of the medial geniculate body in the tree shrew (Tupaia glis). Brain Research, 1975, 86, 217-227.	2.2	31
46	Frequency-Specific Effects on Cochlear Responses During Activation of the Inferior Colliculus in the Guinea Pig. Journal of Neurophysiology, 2004, 91, 2185-2193.	1.8	30
47	Gene Expression Identifies Distinct Ascending Glutamatergic Pathways to Frequency-Organized Auditory Cortex in the Rat Brain. Journal of Neuroscience, 2012, 32, 15759-15768.	3.6	29
48	Local and commissural IC neurons make axosomatic inputs on large GABAergic tectothalamic neurons. Journal of Comparative Neurology, 2014, 522, 3539-3554.	1.6	29
49	Fine structure of GABA-labeled axonal endings in the inferior colliculus of the cat: Immunocytochemistry on deplasticized ultrathin sections. Neuroscience, 1992, 46, 455-463.	2.3	28
50	The Balance of Excitatory and Inhibitory Synaptic Inputs for Coding Sound Location. Journal of Neuroscience, 2014, 34, 3779-3792.	3.6	28
51	Functional organization of the local circuit in the inferior colliculus. Anatomical Science International, 2016, 91, 22-34.	1.0	28
52	Regulation of Kv channel expression and neuronal excitability in rat medial nucleus of the trapezoid body maintained in organotypic culture. Journal of Physiology, 2010, 588, 1451-1468.	2.9	26
53	Immunolocalization of vesicular glutamate transporters 1 and 2 in the rat inferior colliculus. Neuroscience, 2008, 154, 226-232.	2.3	23
54	A golgi study of the medial geniculate body in the tree shrew (Tupaia glis). Journal of Comparative Neurology, 1982, 209, 1-16.	1.6	21

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55	Convergence of lemniscal and local excitatory inputs on large GABAergic tectothalamic neurons. Journal of Comparative Neurology, 2015, 523, 2277-2296.	1.6	20
56	Visualization of neurons filled with biotinylated-Lucifer yellow following identification of efferent connectivity with retrograde transport. Journal of Neuroscience Methods, 1993, 46, 59-68.	2.5	19
57	Intravenously-injected gold nanoparticles (AuNPs) access intracerebral F98 rat gliomas better than AuNPs infused directly into the tumor site by convection enhanced delivery. International Journal of Nanomedicine, 2018, Volume 13, 3937-3948.	6.7	19
58	Connectivity of neurons in identified auditory circuits studied with transport of dextran and microspheres plus intracellular injection of Lucifer Yellow. Journal of Neuroscience Methods, 1994, 53, 23-27.	2.5	17
59	Asymmetric temporal interactions of soundâ€evoked excitatory and inhibitory inputs in the mouse auditory midbrain. Journal of Physiology, 2014, 592, 3647-3669.	2.9	15
60	Long-Lasting Sound-Evoked Afterdischarge in the Auditory Midbrain. Scientific Reports, 2016, 6, 20757.	3.3	15
61	Overview of Auditory Projection Pathways and Intrinsic Microcircuits. Springer Handbook of Auditory Research, 2018, , 7-39.	0.7	15
62	Transganglionic transport of D-aspartate from cochlear nucleus to cochlea a quantitative autoradiographic study. Hearing Research, 1984, 15, 197-213.	2.0	14
63	Mice heterozygous for the Cdh23/Ahl1 mutation show age-related deficits in auditory temporal processing. Neurobiology of Aging, 2019, 81, 47-57.	3.1	13
64	Granule cells in the cochlear nucleus sensitive to sound activation detected by Fos protein expression. Neuroscience, 2005, 136, 865-882.	2.3	10
65	Expression of GABAA receptor subunits in the rat central nucleus of the inferior colliculus. Molecular Brain Research, 2001, 96, 122-132.	2.3	8
66	Neuronal sensitivity to the interaural time difference of the sound envelope in the mouse inferior colliculus. Hearing Research, 2020, 385, 107844.	2.0	6
67	C1ql1 is expressed in adult outer hair cells of the cochlea in a tonotopic gradient. PLoS ONE, 2021, 16, e0251412.	2.5	6
68	Concurrent loss and proliferation of astrocytes following lateral fluid percussion brain injury in the adult rat. Journal of Neuroscience Research, 1999, 57, 271-279.	2.9	4
69	Midbrain. , 2002, , 43-68.		3
70	Introduction to Mammalian Auditory Pathways. Springer Handbook of Auditory Research, 2018, , 1-6.	0.7	2
71	Long-Duration Sound-Induced Facilitation Changes Population Activity in the Inferior Colliculus. Frontiers in Systems Neuroscience, 0, 16, .	2.5	2
72	Ascending efferent projections of the superior olivary complex. Microscopy Research and Technique, 2000, 51, 355-363.	2.2	1

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73	Origins of glutamatergic terminals in the inferior colliculus identified by retrograde transport and expression of VGLUT1 and VGLUT2 genes. Neuroscience Research, 2010, 68, e275.	1.9	0
74	Auditory neuroanatomy: a sound foundation for sound processing. Frontiers in Neuroanatomy, 2012, 6, 48.	1.7	0
75	Class warfare resolved in the auditory midbrain. Journal of Physiology, 2013, 591, 3807-3808.	2.9	0
76	Anatomy of the Central Auditory Nervous System. , 0, , 1381-1388.		0