Sarah L Pallas

List of Publications by Year
in descending order

49	2,508	304743 22	302126 39
papers	citations	h-index	g-index

54	54	54	1297
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Visual behaviour mediated by retinal projections directed to the auditory pathway. Nature, 2000, 404, 871-876.	27.8	414
2	A map of visual space induced in primary auditory cortex. Science, 1990, 250, 818-820.	12.6	277
3	Cross-modal plasticity in cortical development: differentiation and specification of sensory neocortex. Trends in Neurosciences, 1990, 13, 227-233.	8.6	213
4	Visual projections routed to the auditory pathway in ferrets: receptive fields of visual neurons in primary auditory cortex. Journal of Neuroscience, 1992, 12, 3651-3664.	3.6	183
5	Intrinsic and extrinsic factors that shape neocortical specification. Trends in Neurosciences, 2001, 24, 417-423.	8.6	154
6	Visual projections induced into the auditory pathway of ferrets. I. Novel inputs to primary auditory cortex (AI) from the LP/pulvinar complex and the topography of the MGN-AI projection. Journal of Comparative Neurology, 1990, 298, 50-68.	1.6	117
7	Cross-Modal Reorganization of Horizontal Connectivity in Auditory Cortex without Altering Thalamocortical Projections. Journal of Neuroscience, 1999, 19, 7940-7950.	3.6	100
8	Control of cell number in the developing mammalian visual system. Progress in Neurobiology, 1989, 32, 207-234.	5.7	94
9	Cross-modal reorganization of callosal connectivity without altering thalamocortical projections. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 8751-8756.	7.1	82
10	Development of inhibitory circuitry in visual and auditory cortex of postnatal ferrets: Immunocytochemical localization of calbindin- and parvalbumin-containing neurons. , 2000, 422, 140-157.		68
11	Conservation of receptive-field properties of superior colliculus cells after developmental rearrangements of retinal input. Visual Neuroscience, 1989, 2, 121-135.	1.0	61
12	Development of inhibitory circuitry in visual and auditory cortex of postnatal ferrets: Immunocytochemical localization of GABAergic neurons. Journal of Comparative Neurology, 1999, 409, 261-273.	1.6	57
13	Visual projections induced into the auditory pathway of ferrets: II. Corticocortical connections of primary auditory cortex. Journal of Comparative Neurology, 1993, 337, 317-333.	1.6	56
14	Regulation of retinal ganglion cell axon arbor size by target availability: Mechanisms of compression and expansion of the retinotectal projection. Journal of Comparative Neurology, 1994, 344, 581-597.	1.6	56
15	A Digital Atlas to Characterize the Mouse Brain Transcriptome. PLoS Computational Biology, 2005, 1, e41.	3.2	56
16	NMDA Antagonists in the Superior Colliculus Prevent Developmental Plasticity But Not Visual Transmission or Map Compression. Journal of Neurophysiology, 2001, 86, 1179-1194.	1.8	55
17	The effect of oral 5-HTP administration on 5-HTP and 5-HT immunoreactivity in monoaminergic brain regions of rats. Journal of Chemical Neuroanatomy, 2004, 27, 129-138.	2.1	55
18	Visual Experience Is Necessary for Maintenance But Not Development of Receptive Fields in Superior Colliculus. Journal of Neurophysiology, 2005, 94, 1962-1970.	1.8	46

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19	Refinement but Not Maintenance of Visual Receptive Fields Is Independent of Visual Experience. Cerebral Cortex, 2015, 25, 904-917.	2.9	35
20	Regeneration of normal afferent input does not eliminate aberrant synaptic connections of an identified auditory interneuron in the cricket,Teleogryllus oceanicus. Journal of Comparative Neurology, 1986, 248, 348-359.	1.6	27
21	Control of cell number in the developing neocortex. I. Effects of early tectal ablation. Developmental Brain Research, 1988, 43, 1-11.	1.7	24
22	Morphology of retinal axon arbors induced to arborize in a novel target, the medial geniculate nucleus. II. Comparison with axons from the inferior colliculus. Journal of Comparative Neurology, 1994, 349, 363-376.	1.6	24
23	NMDA Receptor Blockade in the Superior Colliculus Increases Receptive Field Size Without Altering Velocity and Size Tuning. Journal of Neurophysiology, 2003, 90, 110-119.	1.8	24
24	Neural Mechanisms of Stimulus Velocity Tuning in the Superior Colliculus. Journal of Neurophysiology, 2005, 94, 3573-3589.	1.8	21
25	Competition and convergence between auditory and cross-modal visual inputs to primary auditory cortical areas. Journal of Neurophysiology, 2011, 105, 1558-1573.	1.8	21
26	Compensation for population size mismatches in the hamster retinotectal system: Alterations in the organization of retinal projections. Visual Neuroscience, 1991, 6, 271-281.	1.0	20
27	Morphology of retinal axons induced to arborize in a novel target, the medial geniculate nucleus. I. Comparison with arbors in normal targets. Journal of Comparative Neurology, 1994, 349, 343-362.	1.6	19
28	Early visual experience prevents but cannot reverse deprivation-induced loss of refinement in adult superior colliculus. Visual Neuroscience, 2006, 23, 845-852.	1.0	16
29	Developmental Plasticity of Inhibitory Circuitry. Journal of Neuroscience, 2006, 26, 10358-10361.	3.6	16
30	Longitudinal variations in MGF-mediated giant motor neuron activity and rapid escape shortening in intact earthworms. Comparative Biochemistry and Physiology A, Comparative Physiology, 1980, 67, 659-665.	0.6	14
31	Dark rearing reveals the mechanism underlying stimulus size tuning of superior colliculus neurons. Visual Neuroscience, 2006, 23, 741-748.	1.0	14
32	Inhibitory plasticity underlies visual deprivation-induced loss of receptive field refinement in the adult superior colliculus. European Journal of Neuroscience, 2011, 33, 58-68.	2.6	14
33	The rapid tail flattening component of MGF-mediated escape behavior in the earthworm, Lumbricus terrestris. Comparative Biochemistry and Physiology A, Comparative Physiology, 1981, 70, 57-64.	0.6	11
34	Cross-Modal Plasticity Results in Increased Inhibition in Primary Auditory Cortical Areas. Neural Plasticity, 2013, 2013, 1-18.	2.2	11
35	Inhibitory Plasticity Facilitates Recovery of Stimulus Velocity Tuning in the Superior Colliculus after Chronic NMDA Receptor Blockade. Journal of Neuroscience, 2007, 27, 7275-7283.	3.6	8
36	Regulation of ephrinâ€A expression in compressed retinocollicular maps. Developmental Neurobiology, 2013, 73, 274-296.	3.0	8

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37	Visual experience prevents dysregulation of GABA_B receptor-dependent short-term depression in adult superior colliculus. Journal of Neurophysiology, 2015, 113, 2049-2061.	1.8	8
38	Development of the Auditory Cortex. , 2011, , 443-463.		7
39	Compromise of Auditory Cortical Tuning and Topography after Cross-Modal Invasion by Visual Inputs. Journal of Neuroscience, 2012, 32, 10338-10351.	3.6	5
40	TrkB Activation during a Critical Period Mimics the Protective Effects of Early Visual Experience on Perception and the Stability of Receptive Fields in Adult Superior Colliculus. Journal of Neuroscience, 2019, 39, 4475-4488.	3.6	5
41	The Impact of Ecological Niche on Adaptive Flexibility of Sensory Circuitry. Frontiers in Neuroscience, 2017, 11, 344.	2.8	3
42	Cross-Modal Plasticity in Sensory Cortex. , 1991, , 205-218.		3
43	Developmental Plasticity of Inhibitory Receptive Field Properties in the Auditory and Visual Systems. , 2010, , 71-89.		2
44	Influence of Thalamocortical Activity on Sensory Cortical Development and Plasticity. , 2006, , 120-137.		1
45	Invasion of ectopic visual inputs compromises auditory function in primary auditory cortex. Frontiers in Neuroscience, 0, 4, .	2.8	1
46	Cortical specification makes sense. Behavioral and Brain Sciences, 2001, 24, 234-234.	0.7	0
47	Dynamic Alterations of Retinal EphA5 Expression in Retinocollicular Map Plasticity. Developmental Neurobiology, 2019, 79, 252-267.	3.0	0
48	A Digital Atlas to Characterize the Mouse Brain Transcriptome. PLoS Computational Biology, 2005, preprint, e41.	3.2	0
49	Visual Inputs and Information Processing in Sensory Cortex: An in vivo Developmental Study. , 1993, , 167-178.		0