Laurens W J Bosman

List of Publications by Year
in descending order

34 papers	2,046 citations	394421 19 h-index	434195 31 g-index
44 all docs	44 docs citations	44 times ranked	2168 citing authors

#	Article	IF	Citations
1	Spatiotemporal firing patterns in the cerebellum. Nature Reviews Neuroscience, 2011, 12, 327-344.	10.2	373
2	Cerebellar modules operate at different frequencies. ELife, 2014, 3, e02536.	6.0	254
3	Anatomical Pathways Involved in Generating and Sensing Rhythmic Whisker Movements. Frontiers in Integrative Neuroscience, 2011, 5, 53.	2.1	211
4	Neonatal development of the rat visual cortex: synaptic function of GABA_a receptor Î± subunits. Journal of Physiology, 2002, 545, 169-181.	2.9	117
5	Cerebellar control of gait and interlimb coordination. Brain Structure and Function, 2015, 220, 3513-3536.	2.3	109
6	Encoding of whisker input by cerebellar Purkinje cells. Journal of Physiology, 2010, 588, 3757-3783.	2.9	100
7	Somatodendritic Secretion in Oxytocin Neurons Is Upregulated during the Female Reproductive Cycle. Journal of Neuroscience, 2003, 23, 2726-2734.	3.6	95
8	Homosynaptic Long-Term Synaptic Potentiation of the â€œWinnerâ€•Climbing Fiber Synapse in Developing Purkinje Cells. Journal of Neuroscience, 2008, 28, 798-807.	3.6	79
9	Gabaa receptor maturation in relation to eye opening in the rat visual cortex. Neuroscience, 2004, 124, 161-171.	2.3	73
10	Mice Lacking the Major Adult GABA_A Receptor Subtype Have Normal Number of Synapses, But Retain Juvenile IPSC Kinetics Until Adulthood. Journal of Neurophysiology, 2005, 94, 338-346.	1.8	67
11	Requirement of TrkB for synapse elimination in developing cerebellar Purkinje cells. Brain Cell Biology, 2007, 35, 87-101.	3.2	61
12	Cerebellar Potentiation and Learning a Whisker-Based Object Localization Task with a Time Response Window. Journal of Neuroscience, 2014, 34, 1949-1962.	3.6	61
13	The effect of an mGluR5 inhibitor on procedural memory and avoidance discrimination impairments in <i>Fmr1</i> KO mice. Genes, Brain and Behavior, 2012, 11, 325-331.	2.2	60
14	Potentiation of cerebellar Purkinje cells facilitates whisker reflex adaptation through increased simple spike activity. ELife, 2018, 7, .	6.0	57
15	Activity-dependent plasticity of developing climbing fiberâ€"Purkinje cell synapses. Neuroscience, 2009, 162, 612-623.	2.3	41
16	Neurons of the inferior olive respond to broad classes of sensory input while subject to homeostatic control. Journal of Physiology, 2019, 597, 2483-2514.	2.9	37
17	Cerebellar Purkinje cells can differentially modulate coherence between sensory and motor cortex depending on region and behavior. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	31
18	Functional Convergence of Autonomic and Sensorimotor Processing in the Lateral Cerebellum. Cell Reports, 2020, 32, 107867.	6.4	29

#	Article	IF	Citations
19	Quasiperiodic rhythms of the inferior olive. PLoS Computational Biology, 2019, 15, e1006475.	3.2	25
20	Generation of an Atxn2-CAG100 knock-in mouse reveals N-acetylaspartate production deficit due to early Nat8l dysregulation. Neurobiology of Disease, 2019, 132, 104559.	4.4	24
21	Synchronicity and Rhythmicity of Purkinje Cell Firing during Generalized Spike-and-Wave Discharges in a Natural Mouse Model of Absence Epilepsy. Frontiers in Cellular Neuroscience, 2017, 11, 346.	3.7	23
22	Two Distinct Signaling Pathways Mediate DIF Induction of Prestalk Gene Expression inDictyostelium. Experimental Cell Research, 1998, 245, 179-185.	2.6	17
23	Purkinje cells translate subjective salience into readiness to act and choice performance. Cell Reports, 2021, 37, 110116.	6.4	17
24	Role of synaptic inhibition in spatiotemporal patterning of cortical activity. Progress in Brain Research, 2005, 147, 201-204.	1.4	11
25	Towards real-time whisker tracking in rodents for studying sensorimotor disorders. , 2017, , .		11
26	Inducible expression of human <i>C9ORF72</i> 36Ã— G4C2 hexanucleotide repeats is sufficient to cause RAN translation and rapid muscular atrophy in mice. DMM Disease Models and Mechanisms, 2021, 14, .	2.4	11
27	Lack of a Clear Behavioral Phenotype in an Inducible FXTAS Mouse Model Despite the Presence of Neuronal FMRpolyG-Positive Aggregates. Frontiers in Molecular Biosciences, 2020, 7, 599101.	3.5	10
28	Regionâ€specific preservation of Purkinje cell morphology and motor behavior in the ATXN1[82Q] mouse model of spinocerebellar ataxia 1. Brain Pathology, 2021, 31, e12946.	4.1	10
29	WhiskEras: A New Algorithm for Accurate Whisker Tracking. Frontiers in Cellular Neuroscience, 2020, 14, 588445.	3.7	8
30	GABAergic inhibition shapes frequency adaptation of cortical activity in a frequency-dependent manner. Brain Research, 2010, 1321, 31-39.	2.2	2
31	Influence of the decay time of the GABAergic postsynaptic current on the spatial spread of network activity. Neurocomputing, 2004, 58-60, 291-295.	5.9	1
32	Stairway to Abstraction: an Iterative Algorithm for Whisker Detection in Video Frames. , 2020, , .		1
33	WhiskEras 2.0: Fast andÂAccurate Whisker Tracking inÂRodents. Lecture Notes in Computer Science, 2022, , 210-225.	1.3	1
34	GABAA receptor plasticity provides homeostasis of neuronal activity in a neocortical microcircuit model. BMC Neuroscience, 2009, 10, .	1.9	0