George W Huntley

List of Publications by Year
in descending order

80 papers	8,030 citations	61984 43 h-index	69250 77 g-index
84 all docs	84 docs citations	84 times ranked	8268 citing authors

#	Article	IF	Citations
1	Astrocyte-Neuron Lactate Transport Is Required for Long-Term Memory Formation. Cell, 2011, 144, 810-823.	28.9	1,285
2	Transgenic mice expressing an altered murine superoxide dismutase gene provide an animal model of amyotrophic lateral sclerosis.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 689-693.	7.1	673
3	Matrix Metalloproteinase-9 Is Required for Hippocampal Late-Phase Long-Term Potentiation and Memory. Journal of Neuroscience, 2006, 26, 1923-1934.	3.6	434
4	Increasing Numbers of Synaptic Puncta during Late-Phase LTP. Neuron, 2000, 28, 245-259.	8.1	355
5	Relationship of intrinsic connections to forelimb movement representations in monkey motor cortex: a correlative anatomic and physiological study. Journal of Neurophysiology, 1991, 66, 390-413.	1.8	346
6	Molecular Modification of N-Cadherin in Response to Synaptic Activity. Neuron, 2000, 25, 93-107.	8.1	301
7	Extracellular proteolysis by matrix metalloproteinase-9 drives dendritic spine enlargement and long-term potentiation coordinately. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19520-19525.	7.1	288
8	Synaptic circuit remodelling by matrix metalloproteinases in health and disease. Nature Reviews Neuroscience, 2012, 13, 743-757.	10.2	229
9	Making memories stick: cell-adhesion molecules in synaptic plasticity. Trends in Cell Biology, 2000, 10, 473-482.	7.9	185
10	A monoclonal antibody to non-phosphorylated neurofilament protein marks the vulnerable cortical neurons in Alzheimer's disease. Brain Research, 1987, 416, 331-336.	2.2	164
11	In Vivo Roles for Matrix Metalloproteinase-9 in Mature Hippocampal Synaptic Physiology and Plasticity. Journal of Neurophysiology, 2007, 98, 334-344.	1.8	160
12	Molecules, maps and synapse specificity. Nature Reviews Neuroscience, 2001, 2, 899-909.	10.2	154
13	Correlation between patterns of horizontal connectivity and the extend of short-term representational plasticity in rat motor cortex. Cerebral Cortex, 1997, 7, 143-156.	2.9	150
14	Intracerebral transplantation of mesenchymal stem cells into acid sphingomyelinaseâ€“deficient mice delays the onset of neurological abnormalities and extends their life span. Journal of Clinical Investigation, 2002, 109, 1183-1191.	8.2	146
15	Regeneration of axons in injured spinal cord by activation of bone morphogenetic protein/Smad1 signaling pathway in adult neurons. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E99-107.	7.1	133
16	The Neurotrophin-Inducible GeneVgfRegulates Hippocampal Function and Behavior through a Brain-Derived Neurotrophic Factor-Dependent Mechanism. Journal of Neuroscience, 2008, 28, 9857-9869.	3.6	128
17	Cellular and synaptic localization of NMDA and non-NMDA receptor subunits in neocortex: organizational features related to cortical circuitry, function and disease. Trends in Neurosciences, 1994, 17, 536-543.	8.6	124
18	Persistence of Coordinated Long-Term Potentiation and Dendritic Spine Enlargement at Mature Hippocampal CA1 Synapses Requires N-Cadherin. Journal of Neuroscience, 2010, 30, 9984-9989.	3.6	109

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19	Altered AÎ² Formation and Long-Term Potentiation in a Calsenilin Knock-Out. Journal of Neuroscience, 2003, 23, 9097-9106.	3.6	103
20	Differential Subcellular Regulation of NMDAR1 Protein and mRNA in Dendrites of Dentate Gyrus Granule Cells after Perforant Path Transection. Journal of Neuroscience, 1997, 17, 2006-2017.	3.6	99
21	Orexin signaling in GABAergic lateral habenula neurons modulates aggressive behavior in male mice. Nature Neuroscience, 2020, 23, 638-650.	14.8	98
22	Immunohistochemical localization of the neuron-specific glutamate transporter EAAC1 (EAAT3) in rat brain and spinal cord revealed by a novel monoclonal antibody. Brain Research, 1997, 773, 139-148.	2.2	96
23	Localization of multiple dopamine receptor subtype mRNAs in human and monkey motor cortex and striatum. Molecular Brain Research, 1992, 15, 181-188.	2.3	95
24	Altered Development of Synapse Structure and Function in Striatum Caused by Parkinson's Disease-Linked LRRK2-G2019S Mutation. Journal of Neuroscience, 2016, 36, 7128-7141.	3.6	95
25	Cajal-Retzius neurons in developing monkey neocortex show immunoreactivity for calcium binding proteins. Journal of Neurocytology, 1990, 19, 200-212.	1.5	91
26	The extracellular protease matrix metalloproteinase-9 is activated by inhibitory avoidance learning and required for long-term memory. Learning and Memory, 2007, 14, 655-664.	1.3	89
27	Prolonged epigenomic and synaptic plasticity alterations following single exposure to a psychedelic in mice. Cell Reports, 2021, 37, 109836.	6.4	82
28	Temporal sequence of neurotransmitter expression by developing neurons of fetal monkey visual cortex. Developmental Brain Research, 1988, 43, 69-96.	1.7	80
29	Antipsychotic-induced Hdac2 transcription via NF-ÎºB leads to synaptic and cognitive side effects. Nature Neuroscience, 2017, 20, 1247-1259.	14.8	79
30	Neural (N)-cadherin at developing thalamocortical synapses provides an adhesion mechanism for the formation of somatopically organized connections. Journal of Comparative Neurology, 1999, 407, 453-471.	1.6	78
31	Developmental expression of brain derived neurotrophic factor mRNA by neurons of fetal and adult monkey prefrontal cortex. Developmental Brain Research, 1992, 70, 53-63.	1.7	68
32	Structural Remodeling of the Synapse in Response to Physiological Activity. Cell, 2002, 108, 1-4.	28.9	66
33	Cadherinâ€8 and Nâ€cadherin differentially regulate preâ€and postsynaptic development of the hippocampal mossy fiber pathway. Hippocampus, 2008, 18, 349-363.	1.9	64
34	N-Cadherin Regulates Ingrowth and Laminar Targeting of Thalamocortical Axons. Journal of Neuroscience, 2003, 23, 2294-2305.	3.6	63
35	Heterogeneous distribution of D1, D2 and D5 receptor mRNAs in monkey striatum. Brain Research, 1993, 616, 242-250.	2.2	62
36	The Cadherin Family of Cell Adhesion Molecules: Multiple Roles in Synaptic Plasticity. Neuroscientist, 2002, 8, 221-233.	3.5	62

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37	The emergence of architectonic field structure and areal borders in developing monkey sensorimotor cortex. Neuroscience, 1991, 44, 287-310.	2.3	58
38	Neuron-specific human glutamate transporter: molecular cloning, characterization and expression in human brain. Brain Research, 1994, 662, 245-250.	2.2	56
39	Compensatory redistribution of neuroligins and Nâ€cadherin following deletion of synaptic Î²1â€integrin. Journal of Comparative Neurology, 2012, 520, 2041-2052.	1.6	54
40	Parkinson's Disease-Linked LRRK2-G2019S Mutation Alters Synaptic Plasticity and Promotes Resilience to Chronic Social Stress in Young Adulthood. Journal of Neuroscience, 2018, 38, 9700-9711.	3.6	51
41	Organization and quantitative analysis of kainate receptor subunit GluR5-7 immunoreactivity in monkey hippocampus. Brain Research, 1993, 624, 347-353.	2.2	50
42	Differential Effects of Abnormal Tactile Experience on Shaping Representation Patterns in Developing and Adult Motor Cortex. Journal of Neuroscience, 1997, 17, 9220-9232.	3.6	45
43	Developmental patterns of cadherin expression and localization in relation to compartmentalized thalamocortical terminations in rat barrel cortex. Journal of Comparative Neurology, 2002, 453, 372-388.	1.6	45
44	GABAA receptor immunoreactivity in adult and developing monkey sensory-motor cortex. Experimental Brain Research, 1990, 82, 519-535.	1.5	44
45	Microzonal decreases in the immunostaining for non-NMDA ionotropic excitatory amino acid receptor subunits GluR 2/3 and GluR 5/6/7 in the human epileptogenic neocortex. Brain Research, 1994, 657, 150-158.	2.2	43
46	Quantitative localization of NMDAR1 receptor subunit immunoreactivity in inferotemporal and prefrontal association cortices of monkey and human. Brain Research, 1997, 749, 245-262.	2.2	42
47	The granin VGF promotes genesis of secretory vesicles, and regulates circulating catecholamine levels and blood pressure. FASEB Journal, 2014, 28, 2120-2133.	0.5	42
48	Synapse adhesion: a dynamic equilibrium conferring stability and flexibility. Current Opinion in Neurobiology, 2012, 22, 397-404.	4.2	38
49	Neural (N-) cadherin, a synaptic adhesion molecule, is induced in hippocampal mossy fiber axonal sprouts by seizure. Journal of Neuroscience Research, 2002, 69, 292-304.	2.9	36
50	Cadherin-Based Transsynaptic Networks in Establishing and Modifying Neural Connectivity. Current Topics in Developmental Biology, 2015, 112, 415-465.	2.2	35
51	Maturation of cortical circuits requires Semaphorin 7A. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13978-13983.	7.1	34
52	N-cadherin regulates molecular organization of excitatory and inhibitory synaptic circuits in adult hippocampus in vivo. Hippocampus, 2014, 24, 943-962.	1.9	33
53	CCAAT Enhancer Binding Protein Î´ Plays an Essential Role in Memory Consolidation and Reconsolidation. Journal of Neuroscience, 2013, 33, 3646-3658.	3.6	32
54	Building and remodeling synapses. Hippocampus, 2012, 22, 954-968.	1.9	31

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55	Developmental and comparative aspects of posterior medial thalamocortical innervation of the barrel cortex in mice and rats. Journal of Comparative Neurology, 2008, 509, 239-258.	1.6	30
56	Early postnatal expression and localization of matrix metalloproteinasesâ€2 and â€9 during establishment of rat hippocampal synaptic circuitry. Journal of Comparative Neurology, 2014, 522, 1249-1263.	1.6	30
57	Cadherinâ€8 expression, synaptic localization, and molecular control of neuronal form in prefrontal corticostriatal circuits. Journal of Comparative Neurology, 2015, 523, 75-92.	1.6	30
58	Developmentally regulated expression of Thy-1 in structures of the mouse sensory-motor system. , 2000, 421, 215-233.		29
59	Subcellular Distribution of HDAC1 in Neurotoxic Conditions Is Dependent on Serine Phosphorylation. Journal of Neuroscience, 2017, 37, 7547-7559.	3.6	26
60	Non-Motor Symptoms of Parkinsonâ€™s Disease: The Neurobiology of Early Psychiatric and Cognitive Dysfunction. Neuroscientist, 2023, 29, 97-116.	3.5	23
61	Immunocytochemical localization of non-NMDA ionotropic excitatory amino acid receptor subunits in human neocortex. Brain Research, 1995, 671, 175-180.	2.2	22
62	Testing the role of the cell-surface molecule Thy-1 in regeneration and plasticity of connectivity in the CNS. Neuroscience, 2002, 111, 837-852.	2.3	22
63	Neuropathic pain- and glial derived neurotrophic factor-associated regulation of cadherins in spinal circuits of the dorsal horn. Pain, 2011, 152, 924-935.	4.2	22
64	Distribution and Injury-Induced Plasticity of Cadherins in Relationship to Identified Synaptic Circuitry in Adult Rat Spinal Cord. Journal of Neuroscience, 2004, 24, 8806-8817.	3.6	21
65	Localisation of mRNA encoding the protein precursor of galanin in the monkey hypothalamus and basal forebrain. Journal of Comparative Neurology, 1993, 328, 203-212.	1.6	19
66	Functional and behavioral consequences of Parkinson's disease-associated LRRK2-G2019S mutation. Biochemical Society Transactions, 2018, 46, 1697-1705.	3.4	18
67	Synaptic loss and retention of different classic cadherins with LTPâ€associated synaptic structural remodeling in vivo. Hippocampus, 2012, 22, 17-28.	1.9	17
68	Dynamic aspects of cadherin-mediated adhesion in synapse development and plasticity. Biology of the Cell, 2002, 94, 335-344.	2.0	16
69	LRRK2 mutation alters behavioral, synaptic, and nonsynaptic adaptations to acute social stress. Journal of Neurophysiology, 2020, 123, 2382-2389.	1.8	16
70	Are we listening to everything the PARK genes are telling us?. Journal of Comparative Neurology, 2019, 527, 1527-1540.	1.6	13
71	Tachykinin immunoreactivity in terminals of trigeminal afferent fibers in adult and fetal monkey thalamus. Experimental Brain Research, 1989, 78, 479-88.	1.5	11
72	â– REVIEW : Glutamate Receptors: Emerging Links Between Subunit Proteins and Specific Excitatory Circuits in Primate Hippocampus and Neocortex. Neuroscientist, 1996, 2, 272-283.	3.5	11

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73	Origins of Parkinsonâ€™s Disease in Brain Development: Insights From Early and Persistent Effects of LRRK2-G2019S on Striatal Circuits. Frontiers in Neuroscience, 2020, 14, 265.	2.8	11
74	Imidazoleacetic acid-ribotide induces depression of synaptic responses in hippocampus through activation of imidazoline receptors. Journal of Neurophysiology, 2011, 105, 1266-1275.	1.8	10
75	Localization of preprogalanin mRNA in the monkey hippocampal formation. Neuroscience Letters, 1992, 146, 171-175.	2.1	6
76	Cognitive deficits and altered cholinergic innervation in young adult male mice carrying a Parkinson's disease Lrrk2G2019S knockin mutation. Experimental Neurology, 2022, 355, 114145.	4.1	6
77	Excitatory Amino Acids and Neurotoxicity in the Human Neocortex. Advances in Behavioral Biology, 1995, , 79-99.	0.2	3
78	Introduction to a special issue on dynamical aspects of cortical structure and function. Neuroscience, 2002, 111, 707-708.	2.3	2
79	Developmental and comparative aspects of posterior medial thalamocortical innervation of the barrel cortex in mice and rats. Journal of Comparative Neurology, 2008, 509, spc1-spc1.	1.6	0
80	Developmental and comparative aspects of posterior medial thalamocortical innervation of the barrel cortex in mice and rats. Journal of Comparative Neurology, 2008, 509, spc1-spc1.	1.6	0