Javier de Felipe

List of Publications by Year
in descending order

312 papers	23,077 citations	8181 76 h-index	11607 135 g-index
342 all docs	342 docs citations	342 times ranked	17940 citing authors

#	Article	IF	Citations
1	Petilla terminology: nomenclature of features of GABAergic interneurons of the cerebral cortex. Nature Reviews Neuroscience, 2008, 9, 557-568.	10.2	1,314
2	Reconstruction and Simulation of Neocortical Microcircuitry. Cell, 2015, 163, 456-492.	28.9	1,258
3	The pyramidal neuron of the cerebral cortex: Morphological and chemical characteristics of the synaptic inputs. Progress in Neurobiology, 1992, 39, 563-607.	5.7	842
4	New insights into the classification and nomenclature of cortical GABAergic interneurons. Nature Reviews Neuroscience, 2013, 14, 202-216.	10.2	707
5	Microstructure of the neocortex: comparative aspects. Journal of Neurocytology, 2002, 31, 299-316.	1.5	574
6	Dendritic but not somatic GABAergic inhibition is decreased in experimental epilepsy. Nature Neuroscience, 2001, 4, 52-62.	14.8	506
7	Types of neurons, synaptic connections and chemical characteristics of cells immunoreactive for calbindin-D28K, parvalbumin and calretinin in the neocortex. Journal of Chemical Neuroanatomy, 1997, 14, 1-19.	2.1	497
8	Neuropeptide-containing neurons of the cerebral cortex are also GABAergic.. Proceedings of the National Academy of Sciences of the United States of America, 1984, 81, 6526-6530.	7.1	465
9	Ultrastructure of dendritic spines: correlation between synaptic and spine morphologies. Frontiers in Neuroscience, 2007, 1, 131-143.	2.8	444
10	Silencing microRNA-134 produces neuroprotective and prolonged seizure-suppressive effects. Nature Medicine, 2012, 18, 1087-1094.	30.7	423
11	The Evolution of the Brain, the Human Nature of Cortical Circuits, and Intellectual Creativity. Frontiers in Neuroanatomy, 2011, 5, 29.	1.7	381
12	Neocortical Neuronal Diversity: Chemical Heterogeneity Revealed by Colocalization Studies of Classic Neurotransmitters, Neuropeptides, Calcium-binding Proteins, and Cell Surface Molecules. Cerebral Cortex, 1993, 3, 273-289.	2.9	332
13	Visualization of chandelier cell axons by parvalbumin immunoreactivity in monkey cerebral cortex.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 2093-2097.	7.1	310
14	The Pyramidal Cell in Cognition: A Comparative Study in Human and Monkey. Journal of Neuroscience, 2001, 21, RC163-RC163.	3.6	286
15	Chandelier cells and epilepsy. Brain, 1999, 122, 1807-1822.	7.6	283
16	Inhibitory synaptogenesis in mouse somatosensory cortex. Cerebral Cortex, 1997, 7, 619-634.	2.9	241
17	A microcolumnar structure of monkey cerebral cortex revealed by immunocytochemical studies of double bouquet cell axons. Neuroscience, 1990, 37, 655-673.	2.3	231
18	Long-range focal collateralization of axons arising from corticocortical cells in monkey sensory-motor cortex. Journal of Neuroscience, 1986, 6, 3749-3766.	3.6	225

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19	Synapses of double bouquet cells in monkey cerebral cortex visualized by calbindin immunoreactivity. Brain Research, 1989, 503, 49-54.	2.2	219
20	Variability in the terminations of GABAergic chandelier cell axons on initial segments of pyramidal cell axons in the monkey sensory-motor cortex. Journal of Comparative Neurology, 1985, 231, 364-384.	1.6	210
21	Barrel Pattern Formation Requires Serotonin Uptake by Thalamocortical Afferents, and Not Vesicular Monoamine Release. Journal of Neuroscience, 2001, 21, 6862-6873.	3.6	210
22	Histopathology and reorganization of chandelier cells in the human epileptic sclerotic hippocampus. Brain, 2004, 127, 45-64.	7.6	194
23	A community-based transcriptomics classification and nomenclature of neocortical cell types. Nature Neuroscience, 2020, 23, 1456-1468.	14.8	183
24	Cortical area and species differences in dendritic spine morphology. Journal of Neurocytology, 2002, 31, 337-346.	1.5	173
25	Gender differences in human cortical synaptic density. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14615-14619.	7.1	170
26	Chapter 17 Cortical interneurons: from Cajal to 2001. Progress in Brain Research, 2002, 136, 215-238.	1.4	168
27	Counting synapses using FIB/SEM microscopy: a true revolution for ultrastructural volume reconstruction. Frontiers in Neuroanatomy, 2009, 3, 18.	1.7	167
28	Architecture of the Mouse Brain Synaptome. Neuron, 2018, 99, 781-799.e10.	8.1	167
29	Distribution and patterns of connectivity of interneurons containing calbindin, calretinin, and parvalbumin in visual areas of the occipital and temporal lobes of the macaque monkey. Journal of Comparative Neurology, 1999, 412, 515-526.	1.6	160
30	Estimation of the Number of Synapses in the Cerebral Cortex: Methodological Considerations. Cerebral Cortex, 1999, 9, 722-732.	2.9	156
31	Non-synaptic dendritic spines in neocortex. Neuroscience, 2007, 145, 464-469.	2.3	155
32	Unique membrane properties and enhanced signal processing in human neocortical neurons. ELife, 2016, 5, .	6.0	154
33	Voltage-gated ion channels in the axon initial segment of human cortical pyramidal cells and their relationship with chandelier cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2920-2925.	7.1	150
34	From the Connectome to the Synaptome: An Epic Love Story. Science, 2010, 330, 1198-1201.	12.6	148
35	Inhibitory neurons in the human epileptogenic temporal neocortex: An immunocytochemical study. Brain, 1996, 119, 1327-1347.	7.6	138
36	The neocortical microcircuit collaboration portal: a resource for rat somatosensory cortex. Frontiers in Neural Circuits, 2015, 9, 44.	2.8	138

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37	Alterations of Neocortical Pyramidal Cell Phenotype in the Ts65Dn Mouse Model of Down Syndrome: Effects of Environmental Enrichment. Cerebral Cortex, 2003, 13, 758-764.	2.9	136
38	Nitric oxide-producing neurons in the neocortex: morphological and functional relationship with intraparenchymal microvasculature. Cerebral Cortex, 1998, 8, 193-203.	2.9	135
39	Specializations of the granular prefrontal cortex of primates: Implications for cognitive processing. The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology, 2006, 288A, 26-35.	2.0	134
40	Cation-Chloride Cotransporters and GABA-ergic Innervation in the Human Epileptic Hippocampus. Epilepsia, 2007, 48, 663-673.	5.1	134
41	Aromatase expression in the human temporal cortex. Neuroscience, 2006, 138, 389-401.	2.3	132
42	A correlative electron microscopic study of basket cells and large gabaergic neurons in the monkey sensory-motor cortex. Neuroscience, 1986, 17, 991-1009.	2.3	130
43	The influence of James and Darwin on Cajal and his research into the neuron theory and evolution of the nervous system. Frontiers in Neuroanatomy, 2014, 8, 1.	1.7	129
44	Patterns of synaptic input on corticocortical and corticothalamic cells in the cat visual cortex. II. The axon initial segment. Journal of Comparative Neurology, 1991, 304, 70-77.	1.6	126
45	Density and morphology of dendritic spines in mouse neocortex. Neuroscience, 2006, 138, 403-409.	2.3	125
46	On dendrites in Down syndrome and DS murine models: a spiny way to learn. Progress in Neurobiology, 2004, 74, 111-126.	5.7	124
47	High-Resolution Light and Electron Microscopic Immunocytochemistry of Colocalized GABA and Calbindin D-28k in Somata and Double Bouquet Cell Axons of Monkey Somatosensory Cortex. European Journal of Neuroscience, 1992, 4, 46-60.	2.6	123
48	Age-Based Comparison of Human Dendritic Spine Structure Using Complete Three-Dimensional Reconstructions. Cerebral Cortex, 2013, 23, 1798-1810.	2.9	123
49	PSD95 nanoclusters are postsynaptic building blocks in hippocampus circuits. Scientific Reports, 2016, 6, 24626.	3.3	122
50	Quantitative analysis of parvalbumin-immunoreactive cells in the human epileptic hippocampus. Neuroscience, 2007, 149, 131-143.	2.3	121
51	Introducing the Human Brain Project. Procedia Computer Science, 2011, 7, 39-42.	2.0	118
52	GSK-3Î² overexpression causes reversible alterations on postsynaptic densities and dendritic morphology of hippocampal granule neurons in vivo. Molecular Psychiatry, 2013, 18, 451-460.	7.9	117
53	The influence of phospho-tau on dendritic spines of cortical pyramidal neurons in patients with Alzheimerâ€™s disease. Brain, 2013, 136, 1913-1928.	7.6	117
54	Double bouquet cell in the human cerebral cortex and a comparison with other mammals. Journal of Comparative Neurology, 2005, 486, 344-360.	1.6	115

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55	A type of basket cell in superficial layers of the cat visual cortex. A Golgi-electron microscope study. Brain Research, 1982, 244, 9-16.	2.2	113
56	Structural abnormalities develop in the brain after ablation of the gene encoding nonmuscle myosin IIâ€B heavy chain. Journal of Comparative Neurology, 2001, 433, 62-74.	1.6	112
57	Widespread Changes in Dendritic Spines in a Model of Alzheimer's Disease. Cerebral Cortex, 2009, 19, 586-592.	2.9	111
58	A study of tachykinin-immunoreactive neurons in monkey cerebral cortex. Journal of Neuroscience, 1988, 8, 1206-1224.	3.6	105
59	Diminished perisomatic GABAergic terminals on cortical neurons adjacent to amyloid plaques. Frontiers in Neuroanatomy, 2009, 3, 28.	1.7	105
60	Lack of thyroid hormone receptor Î±1 is associated with selective alterations in behavior and hippocampal circuits. Molecular Psychiatry, 2003, 8, 30-38.	7.9	104
61	Brain plasticity and mental processes: Cajal again. Nature Reviews Neuroscience, 2006, 7, 811-817.	10.2	103
62	A study of SMI 32-stained pyramidal cells, parvalbumin-immunoreactive chandelier cells, and presumptive thalamocortical axons in the human temproal neocortex. Journal of Comparative Neurology, 1994, 342, 389-408.	1.6	102
63	Dendritic Size of Pyramidal Neurons Differs among Mouse Cortical Regions. Cerebral Cortex, 2006, 16, 990-1001.	2.9	102
64	Human Cortical Pyramidal Neurons: From Spines to Spikes via Models. Frontiers in Cellular Neuroscience, 2018, 12, 181.	3.7	102
65	Antagomirs targeting microRNA-134 increase hippocampal pyramidal neuron spine volume in vivo and protect against pilocarpine-induced status epilepticus. Brain Structure and Function, 2015, 220, 2387-2399.	2.3	101
66	Deficit of quantal release of GABA in experimental models of temporal lobe epilepsy. Nature Neuroscience, 1999, 2, 499-500.	14.8	99
67	Pyramidal cells in prefrontal cortex of primates: marked differences in neuronal structure among species. Frontiers in Neuroanatomy, 2011, 5, 2.	1.7	95
68	Alterations in the phenotype of neocortical pyramidal cells in the Dyrk1A+/âˆ’ mouse. Neurobiology of Disease, 2005, 20, 115-122.	4.4	94
69	Alterations of cortical pyramidal neurons in mice lacking high-affinity nicotinic receptors. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11567-11572.	7.1	93
70	Patterns of synaptic input on corticocortical and corticothalamic cells in the cat visual cortex. I. The cell body. Journal of Comparative Neurology, 1991, 304, 53-69.	1.6	91
71	Neuronal excitation/inhibition imbalance: core element of a translational perspective on Alzheimer pathophysiology. Ageing Research Reviews, 2021, 69, 101372.	10.9	90
72	Colocalization of calbindin D-28k, calretinin, and GABA immunoreactivities in neurons of the human temporal cortex. Journal of Comparative Neurology, 1996, 369, 472-482.	1.6	89

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73	Tau Phosphorylation by GSK3 in Different Conditions. International Journal of Alzheimer's Disease, 2012, 2012, 1-7.	2.0	89
74	A simple and reliable method for correlative light and electron microscopic studies.. Journal of Histochemistry and Cytochemistry, 1993, 41, 769-772.	2.5	86
75	Selective Changes in the Microorganization of the Human Epileptogenic Neocortex Revealed by Parvalbumin Immunoreactivity. Cerebral Cortex, 1993, 3, 39-48.	2.9	85
76	Pyramidal cell axons show a local specialization for GABA and 5-HT inputs in monkey and human cerebral cortex. Journal of Comparative Neurology, 2001, 433, 148-155.	1.6	84
77	Dyrk1A Influences Neuronal Morphogenesis Through Regulation of Cytoskeletal Dynamics in Mammalian Cortical Neurons. Cerebral Cortex, 2012, 22, 2867-2877.	2.9	84
78	A Study of Pyramidal Cell Structure in the Cingulate Cortex of the Macaque Monkey with Comparative Notes on Inferotemporal and Primary Visual Cortex. Cerebral Cortex, 2004, 15, 64-73.	2.9	83
79	Parvalbumin immunoreactivity reveals layer IV of monkey cerebral cortex as a mosaic of microzones of thalamic afferent terminations. Brain Research, 1991, 562, 39-47.	2.2	82
80	Postnatal development of the vesicular gaba transporter in rat cerebral cortex. Neuroscience, 2003, 117, 337-346.	2.3	80
81	Dense and Overlapping Innervation of Pyramidal Neurons by Chandelier Cells. Journal of Neuroscience, 2013, 33, 1907-1914.	3.6	78
82	Demonstration of glutamate-positive axon terminals forming asymmetric synapses in cat neocortex. Brain Research, 1988, 455, 162-165.	2.2	75
83	Vertical organization of gamma-aminobutyric acid-accumulating intrinsic neuronal systems in monkey cerebral cortex. Journal of Neuroscience, 1985, 5, 3246-3260.	3.6	74
84	The Human Temporal Cortex: Characterization of Neurons Expressing Nitric Oxide Synthase, Neuropeptides and Calcium-binding Proteins, and their Glutamate Receptor Subunit Profiles. Cerebral Cortex, 2001, 11, 1170-1181.	2.9	74
85	Synaptic Relationships of Serotonin-Inmmunoreactive Terminal Baskets pm GABA Neurons in the Cat Auditory Cortex. Cerebral Cortex, 1991, 1, 117-133.	2.9	73
86	Altered synaptic circuitry in the human temporal neocortex removed from epileptic patients. Experimental Brain Research, 1997, 114, 1-10.	1.5	73
87	Microanatomy of the dysplastic neocortex from epileptic patients. Brain, 2004, 128, 158-173.	7.6	73
88	Synaptic Connections of Calretinin-Immunoreactive Neurons in the Human Neocortex. Journal of Neuroscience, 1997, 17, 5143-5154.	3.6	72
89	Correlation of transcriptome profile with electrical activity in temporal lobe epilepsy. Neurobiology of Disease, 2006, 22, 374-387.	4.4	72
90	Selective alterations of neurons and circuits related to early memory loss in AlzheimerÃ¢â‚¬â„¢s disease. Frontiers in Neuroanatomy, 2014, 8, 38.	1.7	72

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91	Three-Dimensional Spatial Distribution of Synapses in the Neocortex: A Dual-Beam Electron Microscopy Study. Cerebral Cortex, 2014, 24, 1579-1588.	2.9	68
92	Sensory Yagal Nature and Anatomical Access Paths to Esophagus Laminar Nerve Endings in Myenteric Ganglia. Determination by Surgical Degeneration Methods. Cells Tissues Organs, 1982, 112, 47-57.	2.3	67
93	Distribution of parvalbumin immunoreactivity in the neocortex of hypothyroid adult rats. Neuroscience Letters, 1996, 204, 65-68.	2.1	67
94	FIB/SEM technology and high-throughput 3D reconstruction of dendritic spines and synapses in GFP-labeled adult-generated neurons. Frontiers in Neuroanatomy, 2015, 9, 60.	1.7	66
95	Localization of KCNQ5 in the normal and epileptic human temporal neocortex and hippocampal formation. Neuroscience, 2003, 120, 353-364.	2.3	65
96	CA1 Hippocampal Neuronal Loss in Familial Alzheimer's Disease Presenilinâ€1 E280A Mutation Is Related to Epilepsy. Epilepsia, 2004, 45, 751-756.	5.1	65
97	Espina: A Tool for the Automated Segmentation and Counting of Synapses in Large Stacks of Electron Microscopy Images. Frontiers in Neuroanatomy, 2011, 5, 18.	1.7	64
98	Colocalization of parvalbumin and calbindin D-28k in neurons including chandelier cells of the human temporal neocortex. Journal of Chemical Neuroanatomy, 1997, 12, 165-173.	2.1	62
99	Chapter 10 Spine distribution in cortical pyramidal cells: a common organizational principle across species. Progress in Brain Research, 2002, 136, 109-133.	1.4	62
100	Double bouquet cell axons in the human temporal neocortex: relationship to bundles of myelinated axons and colocalization of calretinin and calbindin D-28k immunoreactivities. Journal of Chemical Neuroanatomy, 1997, 13, 243-251.	2.1	60
101	Glutamate-positive neurons and axon terminals in cat sensory cortex: A correlative light and electron microscopic study. Journal of Comparative Neurology, 1989, 290, 141-153.	1.6	59
102	The anatomical problem posed by brain complexity and size: a potential solution. Frontiers in Neuroanatomy, 2015, 9, 104.	1.7	59
103	Quantitative 3D Ultrastructure of Thalamocortical Synapses from the â€œLemniscalâ€• Ventral Posteromedial Nucleus in Mouse Barrel Cortex. Cerebral Cortex, 2018, 28, 3159-3175.	2.9	59
104	A light and electron microscopic study of serotonin-immunoreactive fibers and terminals in the monkey sensory-motor cortex. Experimental Brain Research, 1988, 71, 171-82.	1.5	56
105	The dendritic spine story: an intriguing process of discovery. Frontiers in Neuroanatomy, 2015, 9, 14.	1.7	55
106	Metabolomics and neuroanatomical evaluation of post-mortem changes in the hippocampus. Brain Structure and Function, 2017, 222, 2831-2853.	2.3	55
107	A light and electron microscopic study of calbindin D-28k immunoreactive double bouquet cells in the human temporal cortex. Brain Research, 1995, 690, 133-140.	2.2	54
108	Morphological alterations to neurons of the amygdala and impaired fear conditioning in a transgenic mouse model of Alzheimer's disease. Journal of Pathology, 2009, 219, 41-51.	4.5	54

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109	A Study of Amyloid-Î² and Phosphotau in Plaques and Neurons in the Hippocampus of Alzheimerâ€™s Disease Patients. Journal of Alzheimer's Disease, 2018, 64, 417-435.	2.6	54
110	Layerâ€specific alterations to CA1 dendritic spines in a mouse model of Alzheimer's disease. Hippocampus, 2011, 21, 1037-1044.	1.9	53
111	Reelin Regulates the Maturation of Dendritic Spines, Synaptogenesis and Glial Ensheathment of Newborn Granule Cells. Cerebral Cortex, 2016, 26, 4282-4298.	2.9	53
112	Study of the Size and Shape of Synapses in the Juvenile Rat Somatosensory Cortex with 3D Electron Microscopy. ENeuro, 2018, 5, ENEURO.0377-17.2017.	1.9	53
113	Aromatase expression in the normal and epileptic human hippocampus. Brain Research, 2010, 1315, 41-52.	2.2	52
114	FIB/SEM Technology and Alzheimer's Disease: Three-Dimensional Analysis of Human Cortical Synapses. Journal of Alzheimer's Disease, 2013, 34, 995-1013.	2.6	52
115	Loss of Inhibitory Synapses on the Soma and Axon Initial Segment of Pyramidal Cells in Human Epileptic Peritumoural Neocortex. Brain Research Bulletin, 1997, 44, 47-66.	3.0	51
116	Chandelier cell axons are immunoreactive for GAT-1 in the human neocortex. NeuroReport, 1998, 9, 467-470.	1.2	51
117	Morphology and Distribution of Chandelier Cell Axon Terminals in the Mouse Cerebral Cortex and Claustroamygdaloid Complex. Cerebral Cortex, 2009, 19, 41-54.	2.9	51
118	Volume electron microscopy of the distribution of synapses in the neuropil of the juvenile rat somatosensory cortex. Brain Structure and Function, 2018, 223, 77-90.	2.3	51
119	Neuropathological Findings in a Patient with Epilepsy and the Parry-Romberg Syndrome. Epilepsia, 2002, 42, 1198-1203.	5.1	50
120	Three-dimensional distribution of cortical synapses: a replicated point pattern-based analysis. Frontiers in Neuroanatomy, 2014, 8, 85.	1.7	49
121	Three-dimensional analysis of synapses in the transentorhinal cortex of Alzheimerâ€™s disease patients. Acta Neuropathologica Communications, 2018, 6, 20.	5.2	49
122	Differential Structure of Hippocampal CA1 Pyramidal Neurons in the Human and Mouse. Cerebral Cortex, 2020, 30, 730-752.	2.9	49
123	The Distribution of Chandelier Cell Axon Terminals that Express the GABA Plasma Membrane Transporter GAT-1 in the Human Neocortex. Cerebral Cortex, 2007, 17, 2060-2071.	2.9	48
124	High plasticity of axonal pathology in Alzheimerâ€™s disease mouse models. Acta Neuropathologica Communications, 2017, 5, 14.	5.2	48
125	3D Electron Microscopy Study of Synaptic Organization of the Normal Human Transentorhinal Cortex and Its Possible Alterations in Alzheimerâ€™s Disease. ENeuro, 2019, 6, ENEURO.0140-19.2019.	1.9	48
126	Double-bouquet cells in the monkey and human cerebral cortex with special reference to areas 17 and 18. Progress in Brain Research, 2006, 154, 15-32.	1.4	47

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127	Differential distribution of neurons in the gyral white matter of the human cerebral cortex. Journal of Comparative Neurology, 2010, 518, 4740-4759.	1.6	47
128	Sesquicentenary of the birthday of Santiago RamÃ³n y Cajal, the father of modern neuroscience. Trends in Neurosciences, 2002, 25, 481-484.	8.6	46
129	The neocortical column. Frontiers in Neuroanatomy, 2012, 6, 22.	1.7	45
130	Machine Learning Approach for the Outcome Prediction of Temporal Lobe Epilepsy Surgery. PLoS ONE, 2013, 8, e62819.	2.5	45
131	27-Hydroxycholesterol Induces Aberrant Morphology and Synaptic Dysfunction in Hippocampal Neurons. Cerebral Cortex, 2019, 29, 429-446.	2.9	45
132	A study of NADPH diaphorase-positive axonal plexuses in the human temporal cortex. Brain Research, 1993, 615, 342-346.	2.2	44
133	Abnormal Tau Phosphorylation in the Thorny Excrescences of CA3 Hippocampal Neurons in Patients with Alzheimer's Disease. Journal of Alzheimer's Disease, 2011, 26, 683-698.	2.6	44
134	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
135	Facilitation of AMPA Receptor Synaptic Delivery as a Molecular Mechanism for Cognitive Enhancement. PLoS Biology, 2012, 10, e1001262.	5.6	43
136	Segmentation of neuronal nuclei based on clump splitting and a two-step binarization of images. Expert Systems With Applications, 2013, 40, 6521-6530.	7.6	42
137	DREAM Controls the On/Off Switch of Specific Activity-Dependent Transcription Pathways. Molecular and Cellular Biology, 2014, 34, 877-887.	2.3	41
138	Spatial distribution of neurons innervated by chandelier cells. Brain Structure and Function, 2015, 220, 2817-2834.	2.3	41
139	Hippocampal Sclerosis: Histopathology Substrate and Magnetic Resonance Imaging. Seminars in Ultrasound, CT and MRI, 2008, 29, 2-14.	1.5	40
140	Synaptic Changes in the Dentate Gyrus of APP/PS1 Transgenic Mice Revealed by Electron Microscopy. Journal of Neuropathology and Experimental Neurology, 2013, 72, 386-395.	1.7	39
141	A Quantitative Study on the Distribution of Mitochondria in the Neuropil of the Juvenile Rat Somatosensory Cortex. Cerebral Cortex, 2018, 28, 3673-3684.	2.9	39
142	Estimation of the number of synapses in the hippocampus and brain-wide by volume electron microscopy and genetic labeling. Scientific Reports, 2020, 10, 14014.	3.3	39
143	Area-Specific Synapse Structure in Branched Posterior Nucleus Axons Reveals a New Level of Complexity in Thalamocortical Networks. Journal of Neuroscience, 2020, 40, 2663-2679.	3.6	39
144	Santiago RamÃ³n y Cajal and methods in neurohistology. Trends in Neurosciences, 1992, 15, 237-246.	8.6	38

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145	Catecholaminergic Innervation of Pyramidal Neurons in the Human Temporal Cortex. Cerebral Cortex, 2005, 15, 1584-1591.	2.9	38
146	Distribution of neurons expressing tyrosine hydroxylase in the human cerebral cortex. Journal of Anatomy, 2007, 211, 212-222.	1.5	38
147	Developmental Expression of Kv Potassium Channels at the Axon Initial Segment of Cultured Hippocampal Neurons. PLoS ONE, 2012, 7, e48557.	2.5	38
148	The Effects of Cocaine Self-Administration on Dendritic Spine Density in the Rat Hippocampus Are Dependent on Genetic Background. Cerebral Cortex, 2015, 25, 56-65.	2.9	38
149	Regional Diversity in the Postsynaptic Proteome of the Mouse Brain. Proteomes, 2018, 6, 31.	3.5	38
150	Three-dimensional analysis of synaptic organization in the hippocampal CA1Âfield in Alzheimerâ€™s disease. Brain, 2021, 144, 553-573.	7.6	38
151	Spaceflight Induces Changes in the Synaptic Circuitry of the Postnatal Developing Neocortex. Cerebral Cortex, 2002, 12, 883-891.	2.9	37
152	Three-dimensional synaptic organization of the human hippocampal CA1 field. ELife, 2020, 9, .	6.0	37
153	PSA-NCAM Immunoreactivity in Chandelier Cell Axon Terminals of the Human Temporal Cortex. Cerebral Cortex, 2002, 12, 617-624.	2.9	36
154	GABABR1 receptor protein expression in human mesial temporal cortex: Changes in temporal lobe epilepsy. Journal of Comparative Neurology, 2002, 449, 166-179.	1.6	36
155	The Effects of Morphine Self-Administration on Cortical Pyramidal Cell Structure in Addiction-Prone Lewis Rats. Cerebral Cortex, 2006, 17, 238-249.	2.9	36
156	Different Populations of Tyrosine-hydroxylase-immunoreactive Neurons Defined by Differential Expression of Nitric Oxide Synthase in the Human Temporal Cortex. Cerebral Cortex, 2003, 13, 297-307.	2.9	34
157	Perisomatic glutamatergic axon terminals: a novel feature of cortical synaptology revealed by vesicular glutamate transporter 1 immunostaining. Neuroscience, 2004, 123, 547-556.	2.3	34
158	Ultrastructural, Molecular and Functional Mapping of GABAergic Synapses on Dendritic Spines and Shafts of Neocortical Pyramidal Neurons. Cerebral Cortex, 2019, 29, 2771-2781.	2.9	34
159	Characterization and extraction of the synaptic apposition surface for synaptic geometry analysis. Frontiers in Neuroanatomy, 2013, 7, 20.	1.7	33
160	Subregional Density of Neurons, Neurofibrillary Tangles and Amyloid Plaques in the Hippocampus of Patients With Alzheimerâ€™s Disease. Frontiers in Neuroanatomy, 2019, 13, 99.	1.7	32
161	In vitro maturation of the cisternal organelle in the hippocampal neuron's axon initial segment. Molecular and Cellular Neurosciences, 2011, 48, 104-116.	2.2	30
162	A calcium-based plasticity model for predicting long-term potentiation and depression in the neocortex. Nature Communications, 2022, 13, .	12.8	30

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163	Alterations of the Microvascular Network in Sclerotic Hippocampi From Patients With Epilepsy. Journal of Neuropathology and Experimental Neurology, 2009, 68, 939-950.	1.7	29
164	Laminar Differences in Dendritic Structure of Pyramidal Neurons in the Juvenile Rat Somatosensory Cortex. Cerebral Cortex, 2016, 26, 2811-2822.	2.9	29
165	Phospho-Tau Changes in the Human CA1 During Alzheimerâ€™s Disease Progression. Journal of Alzheimer's Disease, 2019, 69, 277-288.	2.6	29
166	Vesicular glutamate transporter 1 immunostaining in the normal and epileptic human cerebral cortex. Neuroscience, 2005, 134, 59-68.	2.3	27
167	Proximity of excitatory and inhibitory axon terminals adjacent to pyramidal cell bodies provides a putative basis for nonsynaptic interactions. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9878-9883.	7.1	27
168	GABAergic complex basket formations in the human neocortex. Journal of Comparative Neurology, 2010, 518, 4917-4937.	1.6	27
169	A Stereological Study of Synapse Number in the Epileptic Human Hippocampus. Frontiers in Neuroanatomy, 2011, 5, 8.	1.7	27
170	Effects of Amyloid-Î² Plaque Proximity on the Axon Initial Segment of Pyramidal Cells. Journal of Alzheimer's Disease, 2012, 29, 841-852.	2.6	27
171	Neuronize: a tool for building realistic neuronal cell morphologies. Frontiers in Neuroanatomy, 2013, 7, 15.	1.7	27
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