

# Javier Defelipe

## List of Publications by Year in descending order

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300  
papers

22,780  
citations

8225

75  
h-index

11564

133  
g-index

340  
all docs

340  
docs citations

340  
times ranked

17889  
citing authors

#	ARTICLE	IF	CITATIONS
1	Petilla terminology: nomenclature of features of GABAergic interneurons of the cerebral cortex. <i>Nature Reviews Neuroscience</i> , 2008, 9, 557-568.	10.6	1,349
2	Reconstruction and Simulation of Neocortical Microcircuitry. <i>Cell</i> , 2015, 163, 456-492.	27.7	1,310
3	The pyramidal neuron of the cerebral cortex: Morphological and chemical characteristics of the synaptic inputs. <i>Progress in Neurobiology</i> , 1992, 39, 563-607.	5.8	853
4	New insights into the classification and nomenclature of cortical GABAergic interneurons. <i>Nature Reviews Neuroscience</i> , 2013, 14, 202-216.	10.6	729
5	Microstructure of the neocortex: comparative aspects. <i>Journal of Neurocytology</i> , 2002, 31, 299-316.	1.4	591
6	Types of neurons, synaptic connections and chemical characteristics of cells immunoreactive for calbindin-D28K, parvalbumin and calretinin in the neocortex. <i>Journal of Chemical Neuroanatomy</i> , 1997, 14, 1-19.	2.2	506
7	Neuropeptide-containing neurons of the cerebral cortex are also GABAergic.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1984, 81, 6526-6530.	7.5	466
8	Ultrastructure of dendritic spines: correlation between synaptic and spine morphologies. <i>Frontiers in Neuroscience</i> , 2007, 1, 131-143.	2.9	456
9	Silencing microRNA-134 produces neuroprotective and prolonged seizure-suppressive effects. <i>Nature Medicine</i> , 2012, 18, 1087-1094.	29.9	433
10	The Evolution of the Brain, the Human Nature of Cortical Circuits, and Intellectual Creativity. <i>Frontiers in Neuroanatomy</i> , 2011, 5, 29.	1.7	392
11	Neocortical Neuronal Diversity: Chemical Heterogeneity Revealed by Colocalization Studies of Classic Neurotransmitters, Neuropeptides, Calcium-binding Proteins, and Cell Surface Molecules. <i>Cerebral Cortex</i> , 1993, 3, 273-289.	3.1	336
12	Visualization of chandelier cell axons by parvalbumin immunoreactivity in monkey cerebral cortex.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989, 86, 2093-2097.	7.5	312
13	Chandelier cells and epilepsy. <i>Brain</i> , 1999, 122, 1807-1822.	8.0	285
14	A microcolumnar structure of monkey cerebral cortex revealed by immunocytochemical studies of double bouquet cell axons. <i>Neuroscience</i> , 1990, 37, 655-673.	2.4	234
15	Synapses of double bouquet cells in monkey cerebral cortex visualized by calbindin immunoreactivity. <i>Brain Research</i> , 1989, 503, 49-54.	2.3	221
16	Variability in the terminations of GABAergic chandelier cell axons on initial segments of pyramidal cell axons in the monkey sensory-motor cortex. <i>Journal of Comparative Neurology</i> , 1985, 231, 364-384.	1.9	216
17	Barrel Pattern Formation Requires Serotonin Uptake by Thalamocortical Afferents, and Not Vesicular Monoamine Release. <i>Journal of Neuroscience</i> , 2001, 21, 6862-6873.	3.8	210
18	A community-based transcriptomics classification and nomenclature of neocortical cell types. <i>Nature Neuroscience</i> , 2020, 23, 1456-1468.	14.4	202

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19	Histopathology and reorganization of chandelier cells in the human epileptic sclerotic hippocampus. <i>Brain</i> , 2004, 127, 45-64.	8.0	197
20	Architecture of the Mouse Brain Synaptome. <i>Neuron</i> , 2018, 99, 781-799.e10.	8.0	188
21	Cortical area and species differences in dendritic spine morphology. <i>Journal of Neurocytology</i> , 2002, 31, 337-346.	1.4	178
22	Gender differences in human cortical synaptic density. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 14615-14619.	7.5	177
23	Chapter 17 Cortical interneurons: from Cajal to 2001. <i>Progress in Brain Research</i> , 2002, 136, 215-238.	3.9	171
24	Counting synapses using FIB/SEM microscopy: a true revolution for ultrastructural volume reconstruction. <i>Frontiers in Neuroanatomy</i> , 2009, 3, 18.	1.7	171
25	Unique membrane properties and enhanced signal processing in human neocortical neurons. <i>ELife</i> , 2016, 5, .	5.9	167
26	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. <i>Journal of Comparative Neurology</i> , 1999, 412, 515-526.	1.9	164
27	Estimation of the Number of Synapses in the Cerebral Cortex: Methodological Considerations. <i>Cerebral Cortex</i> , 1999, 9, 722-732.	3.1	163
28	Voltage-gated ion channels in the axon initial segment of human cortical pyramidal cells and their relationship with chandelier cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2920-2925.	7.5	159
29	Non-synaptic dendritic spines in neocortex. <i>Neuroscience</i> , 2007, 145, 464-469.	2.4	157
30	From the Connectome to the Synaptome: An Epic Love Story. <i>Science</i> , 2010, 330, 1198-1201.	19.8	151
31	The neocortical microcircuit collaboration portal: a resource for rat somatosensory cortex. <i>Frontiers in Neural Circuits</i> , 2015, 9, 44.	2.9	142
32	Specializations of the granular prefrontal cortex of primates: Implications for cognitive processing. <i>The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology</i> , 2006, 288A, 26-35.	1.9	141
33	Inhibitory neurons in the human epileptogenic temporal neocortex: An immunocytochemical study. <i>Brain</i> , 1996, 119, 1327-1347.	8.0	140
34	Nitric oxide-producing neurons in the neocortex: morphological and functional relationship with intraparenchymal microvasculature. <i>Cerebral Cortex</i> , 1998, 8, 193-203.	3.1	138
35	Alterations of Neocortical Pyramidal Cell Phenotype in the Ts65Dn Mouse Model of Down Syndrome: Effects of Environmental Enrichment. <i>Cerebral Cortex</i> , 2003, 13, 758-764.	3.1	137
36	Cation-Chloride Cotransporters and GABA-ergic Innervation in the Human Epileptic Hippocampus. <i>Epilepsia</i> , 2007, 48, 663-673.	4.6	136

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37	Aromatase expression in the human temporal cortex. <i>Neuroscience</i> , 2006, 138, 389-401.	2.4	134
38	PSD95 nanoclusters are postsynaptic building blocks in hippocampus circuits. <i>Scientific Reports</i> , 2016, 6, 24626.	3.4	134
39	Age-Based Comparison of Human Dendritic Spine Structure Using Complete Three-Dimensional Reconstructions. <i>Cerebral Cortex</i> , 2013, 23, 1798-1810.	3.1	133
40	A correlative electron microscopic study of basket cells and large gabaergic neurons in the monkey sensory-motor cortex. <i>Neuroscience</i> , 1986, 17, 991-1009.	2.4	132
41	The influence of James and Darwin on Cajal and his research into the neuron theory and evolution of the nervous system. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 1.	1.7	132
42	Density and morphology of dendritic spines in mouse neocortex. <i>Neuroscience</i> , 2006, 138, 403-409.	2.4	128
43	Patterns of synaptic input on corticocortical and corticothalamic cells in the cat visual cortex. II. The axon initial segment. <i>Journal of Comparative Neurology</i> , 1991, 304, 70-77.	1.9	127
44	On dendrites in Down syndrome and DS murine models: a spiny way to learn. <i>Progress in Neurobiology</i> , 2004, 74, 111-126.	5.8	125
45	Quantitative analysis of parvalbumin-immunoreactive cells in the human epileptic hippocampus. <i>Neuroscience</i> , 2007, 149, 131-143.	2.4	125
46	GSK-3 $\beta$ overexpression causes reversible alterations on postsynaptic densities and dendritic morphology of hippocampal granule neurons in vivo. <i>Molecular Psychiatry</i> , 2013, 18, 451-460.	8.1	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. <i>European Journal of Neuroscience</i> , 1992, 4, 46-60.	3.5	123
48	The influence of phospho-tau on dendritic spines of cortical pyramidal neurons in patients with Alzheimer's disease. <i>Brain</i> , 2013, 136, 1913-1928.	8.0	122
49	Introducing the Human Brain Project. <i>Procedia Computer Science</i> , 2011, 7, 39-42.	2.1	121
50	Double bouquet cell in the human cerebral cortex and a comparison with other mammals. <i>Journal of Comparative Neurology</i> , 2005, 486, 344-360.	1.9	119
51	A type of basket cell in superficial layers of the cat visual cortex. A Golgi-electron microscope study. <i>Brain Research</i> , 1982, 244, 9-16.	2.3	113
52	Widespread Changes in Dendritic Spines in a Model of Alzheimer's Disease. <i>Cerebral Cortex</i> , 2009, 19, 586-592.	3.1	113
53	Diminished perisomatic GABAergic terminals on cortical neurons adjacent to amyloid plaques. <i>Frontiers in Neuroanatomy</i> , 2009, 3, 28.	1.7	112
54	Human Cortical Pyramidal Neurons: From Spines to Spikes via Models. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 181.	3.8	111

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55	Antagomirs targeting microRNA-134 increase hippocampal pyramidal neuron spine volume in vivo and protect against pilocarpine-induced status epilepticus. <i>Brain Structure and Function</i> , 2015, 220, 2387-2399.	2.3	107
56	Brain plasticity and mental processes: Cajal again. <i>Nature Reviews Neuroscience</i> , 2006, 7, 811-817.	10.6	106
57	Neuronal excitation/inhibition imbalance: core element of a translational perspective on Alzheimer pathophysiology. <i>Ageing Research Reviews</i> , 2021, 69, 101372.	11.2	106
58	A study of SMI 32-stained pyramidal cells, parvalbumin-immunoreactive chandelier cells, and presumptive thalamocortical axons in the human temporal neocortex. <i>Journal of Comparative Neurology</i> , 1994, 342, 389-408.	1.9	104
59	Lack of thyroid hormone receptor $\beta 1$ is associated with selective alterations in behavior and hippocampal circuits. <i>Molecular Psychiatry</i> , 2003, 8, 30-38.	8.1	104
60	Dendritic Size of Pyramidal Neurons Differs among Mouse Cortical Regions. <i>Cerebral Cortex</i> , 2006, 16, 990-1001.	3.1	104
61	Deficit of quantal release of GABA in experimental models of temporal lobe epilepsy. <i>Nature Neuroscience</i> , 1999, 2, 499-500.	14.4	99
62	Pyramidal cells in prefrontal cortex of primates: marked differences in neuronal structure among species. <i>Frontiers in Neuroanatomy</i> , 2011, 5, 2.	1.7	99
63	Alterations in the phenotype of neocortical pyramidal cells in the <i>Dyrk1A</i> <sup>+/-</sup> mouse. <i>Neurobiology of Disease</i> , 2005, 20, 115-122.	4.5	95
64	Alterations of cortical pyramidal neurons in mice lacking high-affinity nicotinic receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11567-11572.	7.5	95
65	Tau Phosphorylation by GSK3 in Different Conditions. <i>International Journal of Alzheimer's Disease</i> , 2012, 2012, 1-7.	2.6	93
66	<i>Dyrk1A</i> Influences Neuronal Morphogenesis Through Regulation of Cytoskeletal Dynamics in Mammalian Cortical Neurons. <i>Cerebral Cortex</i> , 2012, 22, 2867-2877.	3.1	92
67	Patterns of synaptic input on corticocortical and corticothalamic cells in the cat visual cortex. I. The cell body. <i>Journal of Comparative Neurology</i> , 1991, 304, 53-69.	1.9	91
68	Colocalization of calbindin D-28k, calretinin, and GABA immunoreactivities in neurons of the human temporal cortex. <i>Journal of Comparative Neurology</i> , 1996, 369, 472-482.	1.9	89
69	A Study of Pyramidal Cell Structure in the Cingulate Cortex of the Macaque Monkey with Comparative Notes on Inferotemporal and Primary Visual Cortex. <i>Cerebral Cortex</i> , 2004, 15, 64-73.	3.1	86
70	Selective Changes in the Microorganization of the Human Epileptogenic Neocortex Revealed by Parvalbumin Immunoreactivity. <i>Cerebral Cortex</i> , 1993, 3, 39-48.	3.1	85
71	Pyramidal cell axons show a local specialization for GABA and 5-HT inputs in monkey and human cerebral cortex. <i>Journal of Comparative Neurology</i> , 2001, 433, 148-155.	1.9	84
72	Parvalbumin immunoreactivity reveals layer IV of monkey cerebral cortex as a mosaic of microzones of thalamic afferent terminations. <i>Brain Research</i> , 1991, 562, 39-47.	2.3	82

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73	Dense and Overlapping Innervation of Pyramidal Neurons by Chandelier Cells. <i>Journal of Neuroscience</i> , 2013, 33, 1907-1914.	3.8	81
74	Postnatal development of the vesicular gaba transporter in rat cerebral cortex. <i>Neuroscience</i> , 2003, 117, 337-346.	2.4	80
75	Demonstration of glutamate-positive axon terminals forming asymmetric synapses in cat neocortex. <i>Brain Research</i> , 1988, 455, 162-165.	2.3	75
76	Altered synaptic circuitry in the human temporal neocortex removed from epileptic patients. <i>Experimental Brain Research</i> , 1997, 114, 1-10.	1.5	74
77	The Human Temporal Cortex: Characterization of Neurons Expressing Nitric Oxide Synthase, Neuropeptides and Calcium-binding Proteins, and their Glutamate Receptor Subunit Profiles. <i>Cerebral Cortex</i> , 2001, 11, 1170-1181.	3.1	74
78	Microanatomy of the dysplastic neocortex from epileptic patients. <i>Brain</i> , 2004, 128, 158-173.	8.0	74
79	Correlation of transcriptome profile with electrical activity in temporal lobe epilepsy. <i>Neurobiology of Disease</i> , 2006, 22, 374-387.	4.5	74
80	Synaptic Relationships of Serotonin-Immunoreactive Terminal Baskets pm GABA Neurons in the Cat Auditory Cortex. <i>Cerebral Cortex</i> , 1991, 1, 117-133.	3.1	73
81	Selective alterations of neurons and circuits related to early memory loss in Alzheimer's disease. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 38.	1.7	73
82	Three-Dimensional Spatial Distribution of Synapses in the Neocortex: A Dual-Beam Electron Microscopy Study. <i>Cerebral Cortex</i> , 2014, 24, 1579-1588.	3.1	72
83	Distribution of parvalbumin immunoreactivity in the neocortex of hypothyroid adult rats. <i>Neuroscience Letters</i> , 1996, 204, 65-68.	2.1	68
84	Espina: A Tool for the Automated Segmentation and Counting of Synapses in Large Stacks of Electron Microscopy Images. <i>Frontiers in Neuroanatomy</i> , 2011, 5, 18.	1.7	67
85	Localization of KCNQ5 in the normal and epileptic human temporal neocortex and hippocampal formation. <i>Neuroscience</i> , 2003, 120, 353-364.	2.4	66
86	FIB/SEM technology and high-throughput 3D reconstruction of dendritic spines and synapses in GFP-labeled adult-generated neurons. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 60.	1.7	66
87	The anatomical problem posed by brain complexity and size: a potential solution. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 104.	1.7	64
88	Quantitative 3D Ultrastructure of Thalamocortical Synapses from the Lemniscal-Ventral Posteromedial Nucleus in Mouse Barrel Cortex. <i>Cerebral Cortex</i> , 2018, 28, 3159-3175.	3.1	64
89	Colocalization of parvalbumin and calbindin D-28k in neurons including chandelier cells of the human temporal neocortex. <i>Journal of Chemical Neuroanatomy</i> , 1997, 12, 165-173.	2.2	63
90	Chapter 10 Spine distribution in cortical pyramidal cells: a common organizational principle across species. <i>Progress in Brain Research</i> , 2002, 136, 109-133.	3.9	63

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91	Double bouquet cell axons in the human temporal neocortex: relationship to bundles of myelinated axons and colocalization of calretinin and calbindin D-28k immunoreactivities. <i>Journal of Chemical Neuroanatomy</i> , 1997, 13, 243-251.	2.2	60
92	Metabolomics and neuroanatomical evaluation of post-mortem changes in the hippocampus. <i>Brain Structure and Function</i> , 2017, 222, 2831-2853.	2.3	60
93	Glutamate-positive neurons and axon terminals in cat sensory cortex: A correlative light and electron microscopic study. <i>Journal of Comparative Neurology</i> , 1989, 290, 141-153.	1.9	59
94	A Study of Amyloid- $\beta^2$ and Phosphotau in Plaques and Neurons in the Hippocampus of Alzheimer's Disease Patients. <i>Journal of Alzheimer's Disease</i> , 2018, 64, 417-435.	2.7	59
95	Study of the Size and Shape of Synapses in the Juvenile Rat Somatosensory Cortex with 3D Electron Microscopy. <i>ENeuro</i> , 2018, 5, ENEURO.0377-17.2017.	1.9	59
96	Morphological alterations to neurons of the amygdala and impaired fear conditioning in a transgenic mouse model of Alzheimer's disease. <i>Journal of Pathology</i> , 2009, 219, 41-51.	4.4	57
97	The dendritic spine story: an intriguing process of discovery. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 14.	1.7	57
98	A light and electron microscopic study of serotonin-immunoreactive fibers and terminals in the monkey sensory-motor cortex. <i>Experimental Brain Research</i> , 1988, 71, 171-82.	1.5	56
99	A light and electron microscopic study of calbindin D-28k immunoreactive double bouquet cells in the human temporal cortex. <i>Brain Research</i> , 1995, 690, 133-140.	2.3	56
100	Reelin Regulates the Maturation of Dendritic Spines, Synaptogenesis and Glial Ensheathment of Newborn Granule Cells. <i>Cerebral Cortex</i> , 2016, 26, 4282-4298.	3.1	55
101	Volume electron microscopy of the distribution of synapses in the neuropil of the juvenile rat somatosensory cortex. <i>Brain Structure and Function</i> , 2018, 223, 77-90.	2.3	55
102	Aromatase expression in the normal and epileptic human hippocampus. <i>Brain Research</i> , 2010, 1315, 41-52.	2.3	53
103	Layer-specific alterations to CA1 dendritic spines in a mouse model of Alzheimer's disease. <i>Hippocampus</i> , 2011, 21, 1037-1044.	2.1	53
104	FIB/SEM Technology and Alzheimer's Disease: Three-Dimensional Analysis of Human Cortical Synapses. <i>Journal of Alzheimer's Disease</i> , 2013, 34, 995-1013.	2.7	53
105	Loss of Inhibitory Synapses on the Soma and Axon Initial Segment of Pyramidal Cells in Human Epileptic Peritumoural Neocortex. <i>Brain Research Bulletin</i> , 1997, 44, 47-66.	3.0	52
106	Double-bouquet cells in the monkey and human cerebral cortex with special reference to areas 17 and 18. <i>Progress in Brain Research</i> , 2006, 154, 15-32.	3.9	52
107	Three-dimensional analysis of synapses in the transentorhinal cortex of Alzheimer's disease patients. <i>Acta Neuropathologica Communications</i> , 2018, 6, 20.	5.3	52
108	Differential Structure of Hippocampal CA1 Pyramidal Neurons in the Human and Mouse. <i>Cerebral Cortex</i> , 2020, 30, 730-752.	3.1	52

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109	3D Electron Microscopy Study of Synaptic Organization of the Normal Human Transentorhinal Cortex and Its Possible Alterations in Alzheimer's Disease. <i>ENeuro</i> , 2019, 6, ENEURO.0140-19.2019.	1.9	52
110	Chandelier cell axons are immunoreactive for GAT-1 in the human neocortex. <i>NeuroReport</i> , 1998, 9, 467-470.	1.2	51
111	Neuropathological Findings in a Patient with Epilepsy and the Parry-Romberg Syndrome. <i>Epilepsia</i> , 2002, 42, 1198-1203.	4.6	51
112	Morphology and Distribution of Chandelier Cell Axon Terminals in the Mouse Cerebral Cortex and Claustramygdaloid Complex. <i>Cerebral Cortex</i> , 2009, 19, 41-54.	3.1	51
113	Three-dimensional distribution of cortical synapses: a replicated point pattern-based analysis. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 85.	1.7	51
114	Differential distribution of neurons in the gyral white matter of the human cerebral cortex. <i>Journal of Comparative Neurology</i> , 2010, 518, 4740-4759.	1.9	50
115	Machine Learning Approach for the Outcome Prediction of Temporal Lobe Epilepsy Surgery. <i>PLoS ONE</i> , 2013, 8, e62819.	2.5	50
116	High plasticity of axonal pathology in Alzheimer's disease mouse models. <i>Acta Neuropathologica Communications</i> , 2017, 5, 14.	5.3	50
117	The Distribution of Chandelier Cell Axon Terminals that Express the GABA Plasma Membrane Transporter GAT-1 in the Human Neocortex. <i>Cerebral Cortex</i> , 2007, 17, 2060-2071.	3.1	49
118	27-Hydroxycholesterol Induces Aberrant Morphology and Synaptic Dysfunction in Hippocampal Neurons. <i>Cerebral Cortex</i> , 2019, 29, 429-446.	3.1	49
119	Sesquicentenary of the birthday of Santiago Ramón y Cajal, the father of modern neuroscience. <i>Trends in Neurosciences</i> , 2002, 25, 481-484.	8.8	47
120	Three-dimensional analysis of synaptic organization in the hippocampal CA1 field in Alzheimer's disease. <i>Brain</i> , 2021, 144, 553-573.	8.0	47
121	The neocortical column. <i>Frontiers in Neuroanatomy</i> , 2012, 6, 22.	1.7	45
122	Three-dimensional synaptic organization of the human hippocampal CA1 field. <i>ELife</i> , 2020, 9, .	5.9	45
123	A study of NADPH diaphorase-positive axonal plexuses in the human temporal cortex. <i>Brain Research</i> , 1993, 615, 342-346.	2.3	44
124	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. <i>Brain Research</i> , 1994, 657, 150-158.	2.3	44
125	Abnormal Tau Phosphorylation in the Thorny Excrescences of CA3 Hippocampal Neurons in Patients with Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2011, 26, 683-698.	2.7	44
126	Segmentation of neuronal nuclei based on clump splitting and a two-step binarization of images. <i>Expert Systems With Applications</i> , 2013, 40, 6521-6530.	7.9	44



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127	Facilitation of AMPA Receptor Synaptic Delivery as a Molecular Mechanism for Cognitive Enhancement. <i>PLoS Biology</i> , 2012, 10, e1001262.	5.4	43
128	A Quantitative Study on the Distribution of Mitochondria in the Neuropil of the Juvenile Rat Somatosensory Cortex. <i>Cerebral Cortex</i> , 2018, 28, 3673-3684.	3.1	43
129	Estimation of the number of synapses in the hippocampus and brain-wide by volume electron microscopy and genetic labeling. <i>Scientific Reports</i> , 2020, 10, 14014.	3.4	43
130	Area-Specific Synapse Structure in Branched Posterior Nucleus Axons Reveals a New Level of Complexity in Thalamocortical Networks. <i>Journal of Neuroscience</i> , 2020, 40, 2663-2679.	3.8	43
131	Synaptic Changes in the Dentate Gyrus of APP/PS1 Transgenic Mice Revealed by Electron Microscopy. <i>Journal of Neuropathology and Experimental Neurology</i> , 2013, 72, 386-395.	1.8	42
132	DREAM Controls the On/Off Switch of Specific Activity-Dependent Transcription Pathways. <i>Molecular and Cellular Biology</i> , 2014, 34, 877-887.	2.4	41
133	Spatial distribution of neurons innervated by chandelier cells. <i>Brain Structure and Function</i> , 2015, 220, 2817-2834.	2.3	41
134	Regional Diversity in the Postsynaptic Proteome of the Mouse Brain. <i>Proteomes</i> , 2018, 6, 31.	3.6	41
135	Catecholaminergic Innervation of Pyramidal Neurons in the Human Temporal Cortex. <i>Cerebral Cortex</i> , 2005, 15, 1584-1591.	3.1	40
136	Distribution of neurons expressing tyrosine hydroxylase in the human cerebral cortex. <i>Journal of Anatomy</i> , 2007, 211, 212-222.	1.7	40
137	The Effects of Cocaine Self-Administration on Dendritic Spine Density in the Rat Hippocampus Are Dependent on Genetic Background. <i>Cerebral Cortex</i> , 2015, 25, 56-65.	3.1	40
138	Santiago Ramón y Cajal and methods in neurohistology. <i>Trends in Neurosciences</i> , 1992, 15, 237-246.	8.8	39
139	Developmental Expression of Kv Potassium Channels at the Axon Initial Segment of Cultured Hippocampal Neurons. <i>PLoS ONE</i> , 2012, 7, e48557.	2.5	39
140	Spaceflight Induces Changes in the Synaptic Circuitry of the Postnatal Developing Neocortex. <i>Cerebral Cortex</i> , 2002, 12, 883-891.	3.1	37
141	Neocortical circuits: evolutionary aspects and specificity versus non-specificity of synaptic connections. Remarks, main conclusions and general comments and discussion. <i>Journal of Neurocytology</i> , 2002, 31, 387-416.	1.4	37
142	The Effects of Morphine Self-Administration on Cortical Pyramidal Cell Structure in Addiction-Prone Lewis Rats. <i>Cerebral Cortex</i> , 2006, 17, 238-249.	3.1	37
143	Characterization and extraction of the synaptic apposition surface for synaptic geometry analysis. <i>Frontiers in Neuroanatomy</i> , 2013, 7, 20.	1.7	37
144	Ultrastructural, Molecular and Functional Mapping of GABAergic Synapses on Dendritic Spines and Shafts of Neocortical Pyramidal Neurons. <i>Cerebral Cortex</i> , 2019, 29, 2771-2781.	3.1	37

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145	PSA-NCAM Immunoreactivity in Chandelier Cell Axon Terminals of the Human Temporal Cortex. <i>Cerebral Cortex</i> , 2002, 12, 617-624.	3.1	36
146	GABABR1 receptor protein expression in human mesial temporal cortex: Changes in temporal lobe epilepsy. <i>Journal of Comparative Neurology</i> , 2002, 449, 166-179.	1.9	36
147	A calcium-based plasticity model for predicting long-term potentiation and depression in the neocortex. <i>Nature Communications</i> , 2022, 13, .	13.0	36
148	Subregional Density of Neurons, Neurofibrillary Tangles and Amyloid Plaques in the Hippocampus of Patients With Alzheimer's Disease. <i>Frontiers in Neuroanatomy</i> , 2019, 13, 99.	1.7	35
149	Different Populations of Tyrosine-hydroxylase-immunoreactive Neurons Defined by Differential Expression of Nitric Oxide Synthase in the Human Temporal Cortex. <i>Cerebral Cortex</i> , 2003, 13, 297-307.	3.1	34
150	Perisomatic glutamatergic axon terminals: a novel feature of cortical synaptology revealed by vesicular glutamate transporter 1 immunostaining. <i>Neuroscience</i> , 2004, 123, 547-556.	2.4	34
151	Strong and reliable synaptic communication between pyramidal neurons in adult human cerebral cortex. <i>Cerebral Cortex</i> , 2023, 33, 2857-2878.	3.1	33
152	Phospho-Tau Changes in the Human CA1 During Alzheimer's Disease Progression. <i>Journal of Alzheimer's Disease</i> , 2019, 69, 277-288.	2.7	32
153	Three-Dimensional Synaptic Organization of Layer III of the Human Temporal Neocortex. <i>Cerebral Cortex</i> , 2021, 31, 4742-4764.	3.1	32
154	Alterations of the Microvascular Network in Sclerotic Hippocampi From Patients With Epilepsy. <i>Journal of Neuropathology and Experimental Neurology</i> , 2009, 68, 939-950.	1.8	31
155	GABAergic complex basket formations in the human neocortex. <i>Journal of Comparative Neurology</i> , 2010, 518, 4917-4937.	1.9	31
156	In vitro maturation of the cisternal organelle in the hippocampal neuron's axon initial segment. <i>Molecular and Cellular Neurosciences</i> , 2011, 48, 104-116.	2.2	30
157	Neuronize: a tool for building realistic neuronal cell morphologies. <i>Frontiers in Neuroanatomy</i> , 2013, 7, 15.	1.7	30
158	Linking Brain Structure, Activity, and Cognitive Function through Computation. <i>ENeuro</i> , 2022, 9, ENEURO.0316-21.2022.	1.9	29
159	Proximity of excitatory and inhibitory axon terminals adjacent to pyramidal cell bodies provides a putative basis for nonsynaptic interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9878-9883.	7.5	28
160	A Stereological Study of Synapse Number in the Epileptic Human Hippocampus. <i>Frontiers in Neuroanatomy</i> , 2011, 5, 8.	1.7	28
161	Effects of Amyloid- $\beta$ Plaque Proximity on the Axon Initial Segment of Pyramidal Cells. <i>Journal of Alzheimer's Disease</i> , 2012, 29, 841-852.	2.7	28
162	Vesicular glutamate transporter 1 immunostaining in the normal and epileptic human cerebral cortex. <i>Neuroscience</i> , 2005, 134, 59-68.	2.4	27

#	ARTICLE	IF	CITATIONS
163	GABA <sup>+</sup> Peptide Neurons of the Primate Cerebral Cortex. <i>Cerebral Cortex</i> , 1987, , 237-266.	0.0	27
164	The Influence of Synaptic Size on AMPA Receptor Activation: A Monte Carlo Model. <i>PLoS ONE</i> , 2015, 10, e0130924.	2.5	27
165	Colocalization of $\hat{A}$ -actinin and Synaptopodin in the Pyramidal Cell Axon Initial Segment. <i>Cerebral Cortex</i> , 2012, 22, 1648-1661.	3.1	26
166	Morphometric alterations of Golgi apparatus in Alzheimer's disease are related to tau hyperphosphorylation. <i>Neurobiology of Disease</i> , 2017, 97, 11-23.	4.5	26
167	3D morphology-based clustering and simulation of human pyramidal cell dendritic spines. <i>PLoS Computational Biology</i> , 2018, 14, e1006221.	3.0	26
168	Volume Electron Microscopy Study of the Relationship Between Synapses and Astrocytes in the Developing Rat Somatosensory Cortex. <i>Cerebral Cortex</i> , 2020, 30, 3800-3819.	3.1	26
169	Chronic cocaine treatment alters dendritic arborization in the adult motor cortex through a CB1 cannabinoid receptor <sup>+</sup> dependent mechanism. <i>Neuroscience</i> , 2007, 146, 1536-1545.	2.4	25
170	Metabolomic Study of Hibernating Syrian Hamster Brains: In Search of Neuroprotective Agents. <i>Journal of Proteome Research</i> , 2019, 18, 1175-1190.	3.8	25
171	Synaptic connections of an interneuron with axonal arcades in the cat visual cortex. <i>Journal of Neurocytology</i> , 1988, 17, 313-323.	1.4	24
172	A Fast Method for the Segmentation of Synaptic Junctions and Mitochondria in Serial Electron Microscopic Images of the Brain. <i>Neuroinformatics</i> , 2016, 14, 235-250.	2.8	24
173	Comment on <sup>+</sup> Principles of connectivity among morphologically defined cell types in adult neocortex <sup>+</sup> . <i>Science</i> , 2016, 353, 1108-1108.	19.8	24
174	GABA Neurons and Their Role in Activity-Dependent Plasticity of Adult Primate Visual Cortex. <i>Cerebral Cortex</i> , 1994, , 61-140.	0.0	24
175	Pericellular innervation of neurons expressing abnormally hyperphosphorylated tau in the hippocampal formation of Alzheimer <sup>TM</sup> s disease patients. <i>Frontiers in Neuroanatomy</i> , 2010, 4, 20.	1.7	23
176	High levels of 27-hydroxycholesterol results in synaptic plasticity alterations in the hippocampus. <i>Scientific Reports</i> , 2021, 11, 3736.	3.4	23
177	Local connections in transplanted and normal cerebral cortex of rats. <i>Experimental Brain Research</i> , 1988, 69, 387-98.	1.5	22
178	Immunocytochemical localization of non-NMDA ionotropic excitatory amino acid receptor subunits in human neocortex. <i>Brain Research</i> , 1995, 671, 175-180.	2.3	22
179	Pyramidal cell specialization in the occipitotemporal cortex of the vervet monkey. <i>NeuroReport</i> , 2005, 16, 967-970.	1.2	22
180	Decreased adult neurogenesis in hibernating Syrian hamster. <i>Neuroscience</i> , 2016, 333, 181-192.	2.4	22

#	ARTICLE	IF	CITATIONS
181	Specific cytoarchitectural changes in hippocampal subareas in daDREAM mice. <i>Molecular Brain</i> , 2016, 9, 22.	3.0	22
182	Variation in Pyramidal Cell Morphology Across the Human Anterior Temporal Lobe. <i>Cerebral Cortex</i> , 2021, 31, 3592-3609.	3.1	22
183	Colocalization of Glutamate Ionotropic Receptor Subunits in the Human Temporal Neocortex. <i>Cerebral Cortex</i> , 2000, 10, 621-631.	3.1	21
184	Dendritic spines are lost in clusters in Alzheimer's disease. <i>Scientific Reports</i> , 2021, 11, 12350.	3.4	21
185	Models and Simulation of 3D Neuronal Dendritic Trees Using Bayesian Networks. <i>Neuroinformatics</i> , 2011, 9, 347-369.	2.8	20
186	Changes in tau phosphorylation in hibernating rodents. <i>Journal of Neuroscience Research</i> , 2013, 91, 954-962.	3.0	20
187	Bayesian network modeling of the consensus between experts: An application to neuron classification. <i>International Journal of Approximate Reasoning</i> , 2014, 55, 3-22.	3.4	20
188	Bayesian Network Classifiers for Categorizing Cortical GABAergic Interneurons. <i>Neuroinformatics</i> , 2015, 13, 193-208.	2.8	20
189	Patterns of GABABR1a,b Receptor Gene Expression in Monkey and Human Visual Cortex. <i>Cerebral Cortex</i> , 2001, 11, 104-113.	3.1	19
190	Changes in the Golgi Apparatus of Neocortical and Hippocampal Neurons in the Hibernating Hamster. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 157.	1.7	19
191	GSK-3 $\beta$ Overexpression Alters the Dendritic Spines of Developmentally Generated Granule Neurons in the Mouse Hippocampal Dentate Gyrus. <i>Frontiers in Neuroanatomy</i> , 2017, 11, 18.	1.7	19
192	Towards a supervised classification of neocortical interneuron morphologies. <i>BMC Bioinformatics</i> , 2018, 19, 511.	2.6	19
193	3D Ultrastructural Study of Synapses in the Human Entorhinal Cortex. <i>Cerebral Cortex</i> , 2021, 31, 410-425.	3.1	19
194	Variation in the spatial relationship between parvalbumin immunoreactive interneurons and pyramidal neurons in rat somatosensory cortex. <i>NeuroReport</i> , 1999, 10, 2975-2979.	1.2	18
195	Schedule-induced polydipsia is associated with increased spine density in dorsolateral striatum neurons. <i>Neuroscience</i> , 2015, 300, 238-245.	2.4	18
196	3D Analysis of the Synaptic Organization in the Entorhinal Cortex in Alzheimer's Disease. <i>ENeuro</i> , 2021, 8, ENEURO.0504-20.2021.	1.9	18
197	Pyramidal cell specialization in the occipitotemporal cortex of the Chacma baboon ( <i>Papio ursinus</i> ). <i>Experimental Brain Research</i> , 2005, 167, 496-503.	1.5	17
198	Morphine self-administration effects on the structure of cortical pyramidal cells in addiction-resistant rats. <i>Brain Research</i> , 2008, 1230, 61-72.	2.3	17

#	ARTICLE	IF	CITATIONS
199	3D segmentations of neuronal nuclei from confocal microscope image stacks. <i>Frontiers in Neuroanatomy</i> , 2013, 7, 49.	1.7	17
200	Myr+Gi2± and Go± subunits restore the efficacy of opioids, clonidine and neurotensin giving rise to antinociception in G-protein knock-down mice. <i>Neuropharmacology</i> , 1999, 38, 1861-1873.	4.1	16
201	Specialization in pyramidal cell structure in the sensory-motor cortex of the vervet monkey ( <i>Cercopethicus pygerythrus</i> ). <i>Neuroscience</i> , 2005, 134, 1057-1068.	2.4	16
202	Classification of GABAergic interneurons by leading neuroscientists. <i>Scientific Data</i> , 2019, 6, 221.	5.3	16
203	Regional specialization in pyramidal cell structure in the limbic cortex of the vervet monkey ( <i>Cercopithecus pygerythrus</i> ): an intracellular injection study of the anterior and posterior cingulate gyrus. <i>Experimental Brain Research</i> , 2005, 167, 315-323.	1.5	15
204	Alterations of the microvascular network in the sclerotic hippocampus of patients with temporal lobe epilepsy. <i>Epilepsy and Behavior</i> , 2014, 38, 48-52.	1.8	15
205	Random Positions of Dendritic Spines in Human Cerebral Cortex. <i>Journal of Neuroscience</i> , 2014, 34, 10078-10084.	3.8	15
206	Specialization in pyramidal cell structure in the sensory-motor cortex of the Chacma baboon ( <i>Papio</i> ) Tj ETQq0 0 0 rgBT /Overlock 1 Discoveries in Molecular, Cellular, and Evolutionary Biology, 2005, 286A, 854-865.	1.9	14
207	Cortical white matter: beyond the pale remarks, main conclusions and discussion. <i>Frontiers in Neuroanatomy</i> , 2010, 4, 4.	1.7	14
208	Multi-dimensional classification of GABAergic interneurons with Bayesian network-modeled label uncertainty. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 150.	2.2	14
209	Branching angles of pyramidal cell dendrites follow common geometrical design principles in different cortical areas. <i>Scientific Reports</i> , 2014, 4, 5909.	3.4	14
210	Classifying GABAergic interneurons with semi-supervised projected model-based clustering. <i>Artificial Intelligence in Medicine</i> , 2015, 65, 49-59.	6.6	14
211	Rat-estrain dependent changes of dendritic and spine morphology in the hippocampus after cocaine self-administration. <i>Addiction Biology</i> , 2017, 22, 78-92.	2.6	14
212	Differential expression of secretagogen immunostaining in the hippocampal formation and the entorhinal and perirhinal cortices of humans, rats, and mice. <i>Journal of Comparative Neurology</i> , 2020, 528, 523-541.	1.9	14
213	Microtubule-associated protein 2 phosphorylation is decreased in the human epileptic temporal lobe cortex. <i>Neuroscience</i> , 2001, 107, 25-33.	2.4	13
214	A univocal definition of the neuronal soma morphology using Gaussian mixture models. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 137.	1.7	13
215	Comments and General Discussion on "The Anatomical Problem Posed by Brain Complexity and Size: A Potential Solution". <i>Frontiers in Neuroanatomy</i> , 2016, 10, 60.	1.7	13
216	Selective effects of $\delta^9$ -tetrahydrocannabinol on medium spiny neurons in the striatum. <i>PLoS ONE</i> , 2018, 13, e0200950.	2.5	13

#	ARTICLE	IF	CITATIONS
217	Cortical Microanatomy and Human Brain Disorders: Epilepsy. <i>Cortex</i> , 2004, 40, 232-233.	2.7	12
218	Specialization in pyramidal cell structure in the cingulate cortex of the Chacma baboon ( <i>Papio</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 comparative notes on the macaque and vervet monkeys. <i>Neuroscience Letters</i> , 2005, 387, 130-135.	2.1	12
219	Macroanatomy and Microanatomy of the Temporal Lobe. <i>Seminars in Ultrasound, CT and MRI</i> , 2007, 28, 404-415.	1.5	12
220	Cajal and the discovery of a new artistic world. <i>Progress in Brain Research</i> , 2013, 203, 201-220.	3.9	12
221	Dendritic-branching angles of pyramidal neurons of the human cerebral cortex. <i>Brain Structure and Function</i> , 2017, 222, 1847-1859.	2.3	12
222	Structural plasticity in hippocampal cells related to the facilitative effect of intracranial self-stimulation on a spatial memory task.. <i>Behavioral Neuroscience</i> , 2015, 129, 720-730.	1.2	12
223	Structural Analysis of Human and Mouse Dendritic Spines Reveals a Morphological Continuum and Differences across Ages and Species. <i>ENeuro</i> , 2022, 9, ENEURO.0039-22.2022.	1.9	12
224	Changes in the colocalization of glutamate ionotropic receptor subunits in the human epileptic temporal lobe cortex. <i>Experimental Brain Research</i> , 2001, 138, 398-402.	1.5	11
225	Selective presence of a giant saccular organelle in the axon initial segment of a subpopulation of layer V pyramidal neurons. <i>Brain Structure and Function</i> , 2015, 220, 869-884.	2.3	11
226	Slow-Wave Activity in the S1HL Cortex Is Contributed by Different Layer-Specific Field Potential Sources during Development. <i>Journal of Neuroscience</i> , 2019, 39, 8900-8915.	3.8	11
227	Cortical GABAergic neurons: stretching it remarks, main conclusions and discussion. <i>Frontiers in Neuroanatomy</i> , 2010, 4, 7.	1.7	11
228	The neuroanatomist's dream, the problems and solutions, and the ultimate aim. <i>Frontiers in Neuroscience</i> , 2008, 2, 10-12.	2.9	10
229	Cortical White Matter: Beyond the Pale. <i>Frontiers in Neuroanatomy</i> , 2012, 5, 67.	1.7	10
230	Local changes in GTP-binding protein immunoreactivities in human epileptogenic neocortex. <i>Experimental Brain Research</i> , 1998, 119, 153-158.	1.5	9
231	Specializations of the Cortical Microstructure of Humans. , 2007, , 167-190.		9
232	PyramidalExplorer: A New Interactive Tool to Explore Morpho-Functional Relations of Human Pyramidal Neurons. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 159.	1.7	9
233	Phospho-Tau Accumulation and Structural Alterations of the Golgi Apparatus of Cortical Pyramidal Neurons in the P301S Tauopathy Mouse Model. <i>Journal of Alzheimer's Disease</i> , 2017, 60, 651-661.	2.7	9
234	Changes in neocortical and hippocampal microglial cells during hibernation. <i>Brain Structure and Function</i> , 2018, 223, 1881-1895.	2.3	9

#	ARTICLE	IF	CITATIONS
235	Metabolic Changes in Brain Slices over Time: a Multiplatform Metabolomics Approach. <i>Molecular Neurobiology</i> , 2021, 58, 3224-3237.	4.1	9
236	Three-dimensional spatial modeling of spines along dendritic networks in human cortical pyramidal neurons. <i>PLoS ONE</i> , 2017, 12, e0180400.	2.5	9
237	Pyramidal cell axon initial segment in Alzheimer's disease. <i>Scientific Reports</i> , 2022, 12, .	3.4	9
238	Cortical synapses of the world's smallest mammal: An FIB/SEM study in the Etruscan shrew. <i>Journal of Comparative Neurology</i> , 2023, 531, 390-414.	1.9	9
239	Transport of CSF antibodies to GÎ± subunits across neural membranes requires binding to the target protein and protein kinase C activity. <i>Molecular Brain Research</i> , 1999, 65, 151-166.	2.4	8
240	Synaptology of the proximal segment of pyramidal cell basal dendrites. <i>European Journal of Neuroscience</i> , 2004, 19, 771-776.	3.5	8
241	Calbindin immunostaining in the CA1 hippocampal pyramidal cell layer of the human and mouse: A comparative study. <i>Journal of Chemical Neuroanatomy</i> , 2020, 104, 101745.	2.2	8
242	A Deep Learning-Based Workflow for Dendritic Spine Segmentation. <i>Frontiers in Neuroanatomy</i> , 2022, 16, 817903.	1.7	8
243	Microcircuits in the brain. <i>Lecture Notes in Computer Science</i> , 1997, , 1-14.	2.0	7
244	The death of Cajal and the end of scientific romanticism and individualism. <i>Trends in Neurosciences</i> , 2014, 37, 525-527.	8.8	7
245	Neuroanatomy and Global Neuroscience. <i>Neuron</i> , 2017, 95, 14-18.	8.0	7
246	Alzheimer disease-like cellular phenotype of newborn granule neurons can be reversed in GSK-3Î²-overexpressing mice. <i>Molecular Psychiatry</i> , 2013, 18, 395-395.	8.1	6
247	A Machine Learning Method for the Prediction of Receptor Activation in the Simulation of Synapses. <i>PLoS ONE</i> , 2013, 8, e68888.	2.5	6
248	Musical Representation of Dendritic Spine Distribution: A New Exploratory Tool. <i>Neuroinformatics</i> , 2014, 12, 341-53.	2.8	6
249	Modifications of the axon initial segment during the hibernation of the Syrian hamster. <i>Brain Structure and Function</i> , 2018, 223, 4307-4321.	2.3	6
250	MultiMap: A Tool to Automatically Extract and Analyse Spatial Microscopic Data From Large Stacks of Confocal Microscopy Images. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 37.	1.7	6
251	Size, Shape, and Distribution of Multivesicular Bodies in the Juvenile Rat Somatosensory Cortex: A 3D Electron Microscopy Study. <i>Cerebral Cortex</i> , 2020, 30, 1887-1901.	3.1	6
252	Neuronize v2: Bridging the Gap Between Existing Proprietary Tools to Optimize Neuroscientific Workflows. <i>Frontiers in Neuroanatomy</i> , 2020, 14, 585793.	1.7	6

#	ARTICLE	IF	CITATIONS
253	3D synaptic organization of layer III of the human anterior cingulate and temporopolar cortex. <i>Cerebral Cortex</i> , 2023, 33, 9691-9708.	3.1	6
254	Three-Dimensional Analysis of Spiny Dendrites Using Straightening and Unrolling Transforms. <i>Neuroinformatics</i> , 2012, 10, 391-407.	2.8	5
255	A Method for the Symbolic Representation of Neurons. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 106.	1.7	5
256	Neuroanatomy from Mesoscopic to Nanoscopic Scales: An Improved Method for the Observation of Semithin Sections by High-Resolution Scanning Electron Microscopy. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 14.	1.7	5
257	Influence of cerebral blood vessel movements on the position of perivascular synapses. <i>PLoS ONE</i> , 2017, 12, e0172368.	2.5	5
258	3D Synaptic Organization of the Rat CA1 and Alterations Induced by Cocaine Self-Administration. <i>Cerebral Cortex</i> , 2021, 31, 1927-1952.	3.1	5
259	Cellular Components of Nervous Tissue. , 2014, , 3-21.		4
260	Dendritic branching angles of pyramidal cells across layers of the juvenile rat somatosensory cortex. <i>Journal of Comparative Neurology</i> , 2016, 524, 2567-2576.	1.9	4
261	Editorial: Why Have Cortical Layers? What Is the Function of Layering? Do Neurons in Cortex Integrate Information Across Different Layers?. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 78.	1.7	4
262	Patterns of Dendritic Basal Field Orientation of Pyramidal Neurons in the Rat Somatosensory Cortex. <i>ENeuro</i> , 2018, 5, ENEURO.0142-18.2018.	1.9	4
263	Microanatomical study of pyramidal neurons in the contralesional somatosensory cortex after experimental ischemic stroke. <i>Cerebral Cortex</i> , 2023, 33, 1074-1089.	3.1	4
264	Human Purkinje cells outperform mouse Purkinje cells in dendritic complexity and computational capacity. <i>Communications Biology</i> , 2024, 7, .	4.5	4
265	Computing the extensions of preinjective and preprojective Kronecker modules. <i>Journal of Algebra</i> , 2014, 408, 205-221.	0.7	3
266	Dendritic and Axonal Wiring Optimization of Cortical GABAergic Interneurons. <i>Neuroinformatics</i> , 2016, 14, 453-464.	2.8	3
267	Protocols for Monitoring the Development of Tau Pathology in Alzheimer's Disease. <i>Methods in Molecular Biology</i> , 2016, 1303, 143-160.	0.7	3
268	InTool Explorer: An Interactive Exploratory Analysis Tool for Versatile Visualizations of Neuroscientific Data. <i>Frontiers in Neuroanatomy</i> , 2019, 13, 28.	1.7	3
269	Effect of Phosphorylated Tau on Cortical Pyramidal Neuron Morphology during Hibernation. <i>Cerebral Cortex Communications</i> , 2020, 1, tga0018.	1.8	3
270	Neuron Class and Target Variability in the Three-Dimensional Localization of SK2 Channels in Hippocampal Neurons as Detected by Immunogold FIB-SEM. <i>Frontiers in Neuroanatomy</i> , 2021, 15, 781314.	1.7	3



#	ARTICLE	IF	CITATIONS
271	Cajal's Place in the History of Neuroscience. , 2009, , 497-507.		2
272	FAST INTERACTIVE QUANTIFICATION OF SYNAPSES IN THE CEREBRAL CORTEX. International Journal on Artificial Intelligence Tools, 2011, 20, 239-252.	1.1	2
273	Cortical GABAergic Neurons: Stretching It. Frontiers in Neuroanatomy, 2012, 6, 16.	1.7	2
274	Cellular Components of Nervous Tissue. , 2013, , 41-59.		2
275	Phospho-Tau and Cognitive Decline in Alzheimer's Disease. Commentary: Tau in physiology and pathology. Frontiers in Neuroanatomy, 2016, 10, 44.	1.7	2
276	The Golgi Apparatus of Neocortical Glial Cells During Hibernation in the Syrian Hamster. Frontiers in Neuroanatomy, 2019, 13, 92.	1.7	2
277	Pre-Embedding Immunostaining of Brain Tissue and Three-Dimensional Imaging with FIB-SEM. Neuromethods, 2021, , 285-302.	0.0	2
278	Regulation of Substance P Immunoreactivity in GABA Neurons of Monkey Visual Cortex by Sensory Deprivation. , 1987, , 300-301.		2
279	Editors' Commentary. , 1991, , 5-18.		2
280	Single-Neuron Labeling in Fixed Tissue and Targeted Volume Electron Microscopy. Frontiers in Neuroanatomy, 2022, 16, 852057.	1.7	2
281	Manifesto of a neuroanatomist. Frontiers in Neuroanatomy, 0, 16, .	1.7	2
282	Goodbye Ted (An Obituary for Edward G. Jones). Frontiers in Neuroanatomy, 2011, 5, 44.	1.7	1
283	Haptically Assisted Connection Procedure for the Reconstruction of Dendritic Spines. IEEE Transactions on Haptics, 2014, 7, 486-498.	2.7	1
284	Editorial: Neuroanatomy for the XXIst Century. Frontiers in Neuroanatomy, 2016, 10, 70.	1.7	1
285	Neuroanatomical signature of super-ageing: Structural brain study of youthful episodic memory in people over the age of 80. Alzheimer's and Dementia, 2020, 16, e041915.	0.7	1
286	A museum for Cajal's Legacy. Lancet Neurology, The, 2021, 20, 25.	10.3	1
287	3D segmentation of neuronal nuclei and cell-type identification using multi-channel information. Expert Systems With Applications, 2021, 183, 115443.	7.9	1
288	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.	1.9	1

#	ARTICLE	IF	CITATIONS
289	A Brain Atlas of Synapse Protein Lifetime Across the Mouse Lifespan. SSRN Electronic Journal, 0, , .	0.3	1
290	The Synapse: Differences Between Men and Women. Research and Perspectives in Endocrine Interactions, 2013, , 43-57.	0.0	0
291	Going to School to Sculpt the Brain. Frontiers for Young Minds, 2013, 1, .	0.8	0
292	[P1â€™222]: STUDY OF THE SYNAPSES IN THE MEDIAL SUPERFICIAL LAYER OF HIPPOCAMPAL CA1 IN ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2017, 13, P328.	0.7	0
293	[P2â€™189]: RELATIONSHIP BETWEEN PHOSPHOâ€™TAU ACCUMULATION AND STRUCTURAL ALTERATIONS OF NEURONAL GOLGI APPARATUS IN ALZHEIMER'S DISEASE PATIENTS AND P301S TAUOPATHY MOUSE MODEL. Alzheimer's and Dementia, 2017, 13, P678.	0.7	0
294	Brain connectomics: From Cajal to present. , 2021, , .		0
295	A Model of Human Cortical Microcircuits for the Study of the Development of Epilepsy. Lecture Notes in Computer Science, 2002, , 248-253.	2.0	0
296	Cell specificity of altered cationâ€™chloride cotransporter expression and GABAergic innervation in the epileptic cerebral cortex. Future Neurology, 2007, 2, 383-387.	0.5	0
297	Semi-supervised Projected Clustering for Classifying GABAergic Interneurons. Lecture Notes in Computer Science, 2013, , 156-165.	2.0	0
298	Material Omitted from the Original English Edition. , 1991, , 19-24.		0
299	Neocortical Microcircuits. , 2017, , 3-22.		0
300	Volume electron microscopy analysis of synapses in primary regions of the human cerebral cortex. Cerebral Cortex, 2024, 34, .	3.1	0