

Javier Defelipe

List of Publications by Year in descending order

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305
papers

22,821
citations

8910

75
h-index

12899

133
g-index

343
all docs

343
docs citations

343
times ranked

19600
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.	10.7	1,349
2	Reconstruction and Simulation of Neocortical Microcircuitry. <i>Cell</i> , 2015, 163, 456-492.	27.8	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.	10.7	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.	7.6	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.	30.1	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.	3.2	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.	7.6	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.	2.0	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.	14.5	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.	7.6	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.	2.0	164
27	Estimation of the Number of Synapses in the Cerebral Cortex: Methodological Considerations. <i>Cerebral Cortex</i> , 1999, 9, 722-732.	3.2	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.	7.6	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.	20.9	151
31	The neocortical microcircuit collaboration portal: a resource for rat somatosensory cortex. <i>Frontiers in Neural Circuits</i> , 2015, 9, 44.	3.0	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.	3.2	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.	3.2	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.	3.2	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.	2.0	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 β overexpression causes reversible alterations on postsynaptic densities and dendritic morphology of hippocampal granule neurons in vivo. <i>Molecular Psychiatry</i> , 2013, 18, 451-460.	8.2	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.	2.0	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.	3.2	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.	2.4	107
56	Brain plasticity and mental processes: Cajal again. <i>Nature Reviews Neuroscience</i> , 2006, 7, 811-817.	10.7	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.	2.0	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.	8.2	104
60	Dendritic Size of Pyramidal Neurons Differs among Mouse Cortical Regions. <i>Cerebral Cortex</i> , 2006, 16, 990-1001.	3.2	104
61	Deficit of quantal release of GABA in experimental models of temporal lobe epilepsy. <i>Nature Neuroscience</i> , 1999, 2, 499-500.	14.5	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> ^{+/-} 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.	7.6	95
65	Tau Phosphorylation by GSK3 in Different Conditions. <i>International Journal of Alzheimer's Disease</i> , 2012, 2012, 1-7.	2.5	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.	3.2	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.	2.0	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.	2.0	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.	3.2	86
70	Selective Changes in the Microorganization of the Human Epileptogenic Neocortex Revealed by Parvalbumin Immunoreactivity. <i>Cerebral Cortex</i> , 1993, 3, 39-48.	3.2	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.	2.0	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.	3.2	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.	3.2	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.	3.2	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.	3.2	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.	2.4	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.	2.0	59
94	A Study of Amyloid- β^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.	4.5	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.	3.2	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.	2.4	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.	2.2	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.	3.1	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.	5.4	52
108	Differential Structure of Hippocampal CA1 Pyramidal Neurons in the Human and Mouse. <i>Cerebral Cortex</i> , 2020, 30, 730-752.	3.2	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.	3.2	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.	2.0	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.	5.4	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.	3.2	49
118	27-Hydroxycholesterol Induces Aberrant Morphology and Synaptic Dysfunction in Hippocampal Neurons. <i>Cerebral Cortex</i> , 2019, 29, 429-446.	3.2	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.	3.2	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.	2.5	41
133	Spatial distribution of neurons innervated by chandelier cells. <i>Brain Structure and Function</i> , 2015, 220, 2817-2834.	2.4	41
134	Regional Diversity in the Postsynaptic Proteome of the Mouse Brain. <i>Proteomes</i> , 2018, 6, 31.	3.5	41
135	Catecholaminergic Innervation of Pyramidal Neurons in the Human Temporal Cortex. <i>Cerebral Cortex</i> , 2005, 15, 1584-1591.	3.2	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.	3.2	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.	3.2	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.	3.2	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.	3.2	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.	3.2	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.	2.0	36
147	A calcium-based plasticity model for predicting long-term potentiation and depression in the neocortex. <i>Nature Communications</i> , 2022, 13, .	13.2	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.	3.2	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.	3.2	33
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